

# Electricity Information Exchange Protocols (EIEP)

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## EIEP8: Price category changes Non-regulated

Effective from 1 October 2019



## Version control

Version	Date amended	EIEP Ref	Comments
10	4 February 2014	EIEP8	<p>Amendments include:</p> <ul style="list-style-type: none"> <li>• Minor variations to wording to align with Authority web site published version</li> <li>• Sender format field decreased from 50 to 20 characters</li> </ul>
10.1 draft	30 June 2017	EIEP8	<p>Amendments include:</p> <p>Terminology alignment with ENA pricing guidelines and preferences agreed with ENA</p> <p>Improvements to add clarity and consistency to content</p> <p>Removed tariff change from file as only used for price category change notifications</p> <p>Addition of Rejection file to be used by the recipient if it proposes rejecting any of the notified changes, together with table of Rejection reason codes and Rejection free text field</p>
11	2 October 2018	EIEP8	<p>Amendments include:</p> <p>Improvements to add further clarity and consistency following submissions received in response to the 4 August 2017 consultation paper and the Authority's responses and decisions set out in the decision paper</p> <p>Rename EIEP8 'Price category changes'</p> <p>Amend Dependencies and 'Description of when this protocol applies' to provide clarity that as EIEP8 only applies where agreed, and the rejection file is only expected to be used where the distributor regularly rejects price category change notifications</p> <p>Add that EIEP8 is not to be used for bulk price category changes due to a restructure of delivery prices</p> <p>Add 'price category' and 'date the change was requested for' to the rejection file</p> <p>Make Notification file trader to distributor only, and rejection file distributor to trader only</p>

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# 1 EIEP8: Price category changes

<b>Title:</b>	<b>EIEP8: Price category changes</b>
<b>Version:</b>	11
<b>Application:</b>	Where agreed, this protocol allows: a) traders to notify distributors of price category changes b) distributors to reject price category changes notified by a trader where it considers the notified change is invalid.
<b>Participants:</b>	Trader/Distributor
<b>Code reference:</b>	
<b>Dependencies:</b>	The use of system agreement may set out that the parties have agreed to use EIEP8 for price category changes.  The use of system agreement between the distributor and the trader may also set out additional requirements relating to the information that must be provided in this file that the distributor or the trader must comply with.

<b>Description of when this protocol applies</b>
<p>This protocol is used by traders to notify distributors of a price category change for an ICP, and by distributors to reject a notified change to the network price category for an ICP where it considers the notified change is invalid according to the eligibility criteria in the distributor's published delivery price schedule (including any associated information relevant to the application of its delivery prices) and the use of system agreement.</p> <p>As EIEP8 is a non-regulated EIEP and only applies where agreed between the parties.</p> <p>The rejection file is only expected to be used where the distributor regularly rejects price category change notifications for individual ICPs. Where it is rare that the distributor rejects notifications, it is reasonable to respond by providing similar information to the proposed rejection file in an email.</p> <p>EIEP8 is not to be used for bulk price category changes due to a restructure of delivery prices.</p>

<b>Business requirements</b>
<ol style="list-style-type: none"> <li>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.</li> <li>2. Where information is required to be transferred using email, the contents must be delivered in a secure manner and password protected.</li> <li>3. This protocol will be used in the timeframes when required as agreed between parties.</li> <li>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.</li> <li>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, or in the case of</li> </ol>

### Business requirements

- price category codes or price component codes are those in the distributor's published delivery price schedule, 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. All detail records are to be included regardless of number of component changes.
  8. The file must contain all mandatory information, failure to provide the required information will result in the file being deemed as incomplete
  9. Information is to be provided in accordance with the following status codes unless otherwise specified:
    - O Optional
    - M Mandatory
    - C Conditional - Mandatory if available, otherwise Null (also refer to the validation rules)
  10. To assist in understanding where these apply when files can be communicated both ways between participants, the relevant status code is given in the assigned column either Trader to Distributor or Distributor to Trader.
  11. All price category codes used must be those published by the distributor.
  12. In cases where it is more appropriate to update at premise detail (P) level a file type of P would be adequate.
  13. This file is not intended to be used to record physical changes at an ICP, these are covered by other EIEPs.
  14. If the trader or distributor becomes aware of a format error or the file is incomplete, that party must advise the other party as soon as practical after becoming aware of the issue. The receiver has the choice to request a corrected partial or full replacement file unless otherwise agreed by those parties.
  15. If no agreement can be reached as to whether the file is to be a partial or full replacement for the correction of the error as above, then a full replacement file is required.

### General requirements

1. If there are any conflicts between this document and the Code, the Code will take precedence.
2. In general, all participants must provide the recipient with:
  - (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.
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.
4. It is the responsibility of participants to meet the principles of the Privacy Act when exchanging customer information.

### Data inputs

## 2 EIEP8: Notification (price category changes)

<b>Event data</b>	<b>Format</b>	<b>Trader to Distributor: Mandatory/Optional/Conditional</b>	<b>Validation rule</b>
<i>Header record type</i>	Char 3	M	HDR – indicates the row is a header record type
<i>File type</i>	Char 7	M	'NPCCHG' - Network price category change notification
<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	C	Participant identifier of party on whose behalf data is provided. Mandatory if sender not a participant
<i>Recipient participant identifier</i>	Char 4	M	Valid recipient participant identifier
<i>Report run date</i>	DD/MM/YYYY	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 report
<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)

### 2.1 Premise detail

<b>Event data</b>	<b>Format</b>	<b>Trader to Distributor: Mandatory/Optional/Conditional</b>	<b>Validation rule</b>
<i>Detail record type</i>	Char 3	M	DET – indicates the row is a detail record.
<i>Record type</i>	Char 1	M	Valid value: P -Premises
<i>ICP identifier</i>	Char 15	M	Unique identifier for an ICP created by a distributor in accordance with clause 1 of Schedule 11.1
<i>Price category</i>	Char 7	M	Proposed new network price category code as per the distributor's published delivery price schedule.

Event data	Format	Trader to Distributor: Mandatory/Optional/Conditional	Validation rule
<i>Effective date</i>	DD/MM/YY YY	M	The date from which the attribute values of the event should apply.
<i>Network fuse size</i>	Num 4	C	Size of fuse in amps if known. Can be Null.
<i>Meter count</i>	Int 3	C	Number of meters installed at an ICP. Can be Null.
<i>Meter channel count</i>	Int 3	C	0 to 999 to indicate the number of meter channels used to obtain metering information at the ICP. Zero for unmetered installations. Can be Null.

## 2.2 Fixed price detail

Event data	Format	Trader to Distributor: Mandatory/Optional/Conditional	Validation rule
<i>Detail record type</i>	Char 3	M	DET – indicates the row is a detail record.
<i>Record type</i>	Char 1	C	Valid value: F - Fixed price. Can be Null.
<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>Fixed price component code</i>	Char 12	C	Price component code for the fixed delivery price within a price category. . Can be Null
<i>Effective date</i>	DD/MM/YY YY	C	The date from which the attribute values of the event should apply. Can be Null
<i>Chargeable capacity</i>	Num 7.2	C	The capacity that the distributor may charge for, but that may not be the actual installed capacity at the relevant ICP. Mandatory if applicable and change proposed. Can be Null

## 2.3 Channel detail

Event data	Format	Trader to Distributor: Mandatory/Optional/Conditional	Validation rule
<i>Detail record type</i>	Char 3	M	DET – indicates the row is a detail record.
<i>Record Type</i>	Char 1	C	Valid value: R –register/channel. Can be Null.

<b>Event data</b>	<b>Format</b>	<b>Trader to Distributor: Mandatory/Optio nal/Conditional</b>	<b>Validation rule</b>
<i>ICP identifier</i>	Char 15	M	Unique identifier for an ICP created by a distributor in accordance with clause 1 of Schedule 11.1
<i>Metering component serial number</i>	Char 25	C	Actual serial number of the device. Where integral to the meter, will be the same as the meter serial number. Can be Null
<i>Channel number</i>	Num 3	C	Must be a unique number within the metering component assigned by the MEP
<i>Register content code</i>	Char 6	C	A code that identifies the type of information being recorded by the channel and must reflect the physical or programmed configuration of the metering installation. Selected from a list in the registry
<i>Period of availability</i>	Num 2.1	C	Minimum number of hours within a day that supply is available (or controlled part is available for an inclusive channel) (<=24).
<i>Variable price component code</i>	Char 25	C	Price component code for the variable delivery price within the price category.
<i>Effective date</i>	DD/MM/YY YY	C	The date from which the attribute values of the event should apply Can be Null

### 3 EIEP8: Rejection (price category changes)

<b>Event data</b>	<b>Format</b>	<b>Distributor to Trader: Mandatory/Optio nal/Conditional</b>	<b>Validation rule</b>
<i>Header record type</i>	Char 3	M	HDR – indicates the row is a header record type
<i>File type</i>	Char 7	M	REJCHG – rejection of price category change
<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.



<b>Event data</b>	<b>Format</b>	<b>Distributor to Trader: Mandatory/Optional/Conditional</b>	<b>Validation rule</b>
<i>Sent on behalf of participant identifier</i>	Char 4	M	Participant identifier of party on whose behalf data is provided.
<i>Recipient 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 report
<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)

### 3.1 Premise detail

<b>Event data</b>	<b>Format</b>	<b>Distributor to Trader: Mandatory/Optional/Conditional</b>	<b>Validation rule</b>
<i>Detail record type</i>	Char 3	M	DET – indicates the row is a detail record.
<i>Record type</i>	Char 1	M	Valid value: P - Premises
<i>ICP identifier</i>	Char 15	M	Unique identifier for an ICP created by a distributor in accordance with clause 1 of Schedule 11.1
<i>Price category</i>	Char 7	M	Proposed new network price category code as per the trader's notification file
<i>Requested date</i>	DD/MM/YY YY	C	Proposed date for the price category change as per the trader's notification file. Null if no date in the trader's file.
<i>Effective date</i>	DD/MM/YY YY	C	The distributor's agreed effective date.
<i>Rejection reason code</i>	Char 3	M	As per the table of rejection reason codes following this EIEP
<i>Rejection reason additional information</i>	Char 255	C	Rejection reason free text if the party rejecting the change request has additional information or evidence to support its rejection. Mandatory if the rejection reason code is 006.  May be Null if rejection reason code conveys all the relevant information.

Protocol specifications
<p>1. The information is to be provided as a comma delimited text file. Commas are therefore prohibited within fields.</p> <p>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:</p> <ul style="list-style-type: none"> <li>(a) a carriage return character and a line feed character combination (ASCII characters 13 and 10) commonly used in Windows based programs, or</li> <li>(b) a line feed character (ASCII character 10) commonly used in Unix based programs, or</li> <li>(c) a carriage return character (ASCII character 13) commonly used in Mac based programs.</li> </ul> <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 one or more detail lines. The following file naming convention is to be used with this file:</p> <p>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.</p> <p>e.g. TRUS_E_UNET_TARCHG_200007_20000802_1232.TXT</p> <p>[Char4_Char1_Char4_ Char7_yyyymm_yyyymmdd_UniqueID.TXT]</p>

Data outputs

## 4 Table of codes used in EIEP8

### 4.1 Table 1 List of attributes to define data fields used in EIEP8

Logical format	Data type	Rules	Example
INT (n)	Integer	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. Numbers only: ASCII characters 48 to 57, and 45 where applicable.	INT (4) 12 -1234
NUM (n.d)	Decimal	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.  For integers, the decimal point is not required.	NUM (6.2) 123.45 1234.0 -12.32 NUM (6.3) -0.123 23.987 987.000 8

Logical format	Data type	Rules	Example
		<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>Numbers only: ASCII characters 48 to 57, and 45/46 where applicable.</p>	
CHAR (n)	Text	<p>Up to n characters (ASCII characters 32 to 43 and 45 to 126 only).</p> <p>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.</p> <p>Fields must not contain any leading or trailing spaces.</p>	The quick brown fox
DATE	Date	<p>ASCII format with: Year represented as: — YYYY for century and year</p> <p>Month represented as: — MM to display leading zero</p> <p>Day represented as — DD to display leading zero</p> <p>ASCII format for any separators used</p>	<p>YYYYMMDD e.g. 20050216</p> <p>DD/MM/YYYY e.g. 16/02/2005</p>
TIME	Time	<p>ASCII in 24 hour format</p> <p>Hour represented as HH with leading zeros</p> <p>Minutes represented as MM with leading zeros</p> <p>Seconds represented as SS with leading zeros</p> <p>ASCII format for any separators used</p> <p>Note: both NZST and NZDT will be used and will be indicated as necessary</p>	<p>HH:MM:SS e.g. 13:15:01</p> <p>HH:MM e.g. 13:15</p>
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	

## 4.2 Table 2 ASCII character set for use within fields of EIEP8

Character	ASCII
32	Space
33	!
34	"
35	#
36	\$
37	%
38	&
39	'
40	(
41	)
42	*
43	+
45	-
46	.
47	/
48	0
49	1
50	2
51	3
52	4
53	5
54	6
55	7
56	8
57	9
58	:
59	;
60	<
61	=
62	>
63	?

Character	ASCII
64	@
65	A
66	B
67	C
68	D
69	E
70	F
71	G
72	H
73	I
74	J
75	K
76	L
77	M
78	N
79	O
80	P
81	Q
82	R
83	S
84	T
85	U
86	V
87	W
88	X
89	Y
90	Z
91	[
92	\
93	]
94	^
95	_
96	`

Character	ASCII
97	a
98	b
99	c
100	d
101	e
102	f
103	g
104	h
105	i
106	j
107	k
108	l
109	m
110	n
111	o
112	p
113	q
114	r
115	s
116	t
117	u
118	v
119	w
120	x
121	y
122	z
123	{
124	
125	}
126	~

Table 3 Rejection reason codes

Rejection reason code	Description
001	Not eligible for Low Fixed Charge (LFC) option as have evidence premises is not a primary place of residence (evidence to be provided)
002	Not eligible for Low Fixed Charge (LFC) option as have evidence premises is a holiday home (evidence to be provided)
003	Not eligible for change within 12 months of last change (subject to eligibility criteria for price category and assertion there has been no change of customer at premises)
004	Not a valid price component code for price category
005	Not your ICP, cancelled switch
006	Other (refer to rejection reason free text)