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8 June 2015

Carl Hansen
Electricity Authority
2 Hunter Street
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By email: submissions@ea.govt.nz

Dear Carl

Access to Consumption Data – Formats and Procedures

Genesis Energy Limited welcomes the opportunity to provide a submission to the Electricity Authority (“the Authority”) on the consultation paper “Access to Consumption Data – Formats and Procedures” dated 28 April 2015.

Genesis Energy supports the Authority’s intention to improve consumer access to private consumption data. However, there is very little benefit to the consumer through the regulatory intervention here. Consumers already may request information about their consumption data and Genesis Energy is obliged to provide the same. The new requirements to be implemented by 1 February 2016 are unrealistic, costly, and solely intended to assist commercial ventures by brokers and other agencies.

Purpose of intervention

The Authority has confirmed the primary purpose of the intervention is to allow third parties, including brokers and aggregators, to access consumer information. As identified in our original submission, retailers already provide consumption information to consumers, and commercial ventures and competitors can already access consumption data by entering into arrangements with customers and MEPs directly. Therefore, in our view, any additional benefits from this change are likely to accrue to new business ventures (if they eventuate), whilst the costs will be faced by incumbent retailers and their customers.

We also consider the changes in this area may actually encourage counter-productive switching. It may lead consumers to make decisions based merely on price, when

consumer decisions are normally based on a number of variables including product type (i.e. loyalty schemes), customer service and retailer reputation, as well as price. By forcing retailers to focus on price alone, the Authority also forces retailers to forego investing in innovation.

With what we consider marginal benefits, it is even more important that any implementation is least cost to market participants. To date, we have not been convinced that the Authority is indeed pursuing a least cost implementation.

Costs

The Authority has underestimated the costs of implementation by individual retailers by at least \$150,000. Based on the information currently available, Genesis Energy estimates implementation will require system changes costing between \$200,000 and \$300,000. This does not include on-going costs on meeting the changes.

We consider these significant implementation costs grossly outweigh the real benefit to the customer – given that customer information is already available. Retailers will be forced to off-set implementation costs in their rates, thereby increasing the overall electricity charges to consumers - whether or not the consumer makes a consumption data request.

Timing

Implementation by 1 February 2016 is unrealistic. The Code changes require complex technical changes to multiple internal data CRM systems. We suggest a timeframe of 12 months from final confirmation of formats and procedures as more achievable.

Technical Working Group

It is critical to the success of any proposed formats and procedures for access of consumption data for the Authority to work together with retailers. Engagement via continuation of the existing Technical Working Group will help ensure that improvements will work in practice. Having said this, the Authority must take into account the suggestions made at the Group.

The current proposal does not fully reflect the discussions raised at the Group's first and only meeting. In particular, we understand the Group raised concerns with both the wording of the Code Change itself and the importance of working with industry on any proposed implementation procedures. This call for industry participation appears to have been ignored.

We suggest Group recommendations be tested at workshops with retailers and consumer representatives, similar to the forum which looked at the guidelines for communications about price changes in February of this year.

Responses to questions

Our responses to the Authority's specific questions are set out in the Appendix below.

If you would like to discuss any of these matters further, please contact me on 04 830 0013.

Yours sincerely



Rebekah Plachecki
Regulatory Advisor

Appendix A: Responses to Consultation Questions

QUESTION	COMMENT
<p>Q1: Do you have any comments on the draft procedure document for the exchange of consumer consumption information?</p>	<p>See marked up version attached.</p> <p>Also, it is clear that the procedure document as presented has been pulled together in a hurry and the author does not have the relevant understanding of operational realities.</p> <p>The Procedure is missing steps if a Retailer is unable to supply the data requested. We have supplied a suggested file format (EIEP13D) that could be returned to the agent in these cases.</p> <p>Our high level estimate of cost for implementing these procedures are in the region of \$200 to 300k rather than the \$50 to 90k estimated by the Authority.</p>

QUESTION	COMMENT
<p>Q2: Do you have any comments on the draft EIEP 13A?</p>	<p>See marked up version attached.</p> <p>Also:</p> <p>The line per consumption period format as defined creates a file of 35,040 rows (48 x 365 x 2) per register. The majority of ICPs have 2 registers, so the file will be 70,040 lines.</p> <p>3.4.1 (f) "...consumption information that the retailer holds in its system." Not all retailers will necessarily hold ½ hour data in their own systems. So this requirement needs to be re-phased to capture all data available to the retailer.</p> <p>3.4.3 Data protection need only refer to Privacy Act compliance, not define the action. Also needs to allow for retailer web portal supply of file.</p> <p>3.4.5 Delete reference to "...or consumers agent..." as agent should only request information via the EIEP hub.</p> <p>3.4.6 Remove words "...by email..." However data is received by the customer, the customer can pass on the data to others.</p>
<p>Q3: Do you consider there are alternatives to an EIEP 13A? Please give reasons for the alternatives.</p>	<p>Change the defined format to be a default format to be used only if an alternative format is not agreed between parties. By limiting to only a single format, the Authority is limiting innovation in intermediary businesses that may develop on different data requirements.</p>

QUESTION	COMMENT
<p>Q4: Do you have any comments on the proposed EIEP 13B? Please give reasons and discussion where you disagree.</p>	<p>See marked up version attached.</p> <p>Also:</p> <p>3.5.1 (d) Needs to clearly state data included is billed data only. Including half hour data that has not been billed misses the whole point of EIEP13B being a customer centric summary file.</p> <p>3.5.3 (a) (ii) Posting paper copy if output includes half hour billed data is not realistic. – At 60 lines per A4 page, 70,080 rows will require 584 pages (i.e. more than a ream of paper) if double sided.</p> <p>3.5.3 (b) (ii) Data protection need only refer to Privacy Act compliance, not define the action.</p> <p>3.5.3 (b) (iii) delete, agent interaction only by EIEP hub.</p> <p>3.5.4 Delete. The author has missed the point of the purpose of the customer summary format. Reference is to billed data not what is held in the system (which is covered in EIEP13A).</p> <p>3.5.5 (c) Paper copies only work if billed data is supplied.</p> <p>3.5.7 remove reference to “...or the consumer’s agent” as all agent transactions must be via EIEP hub.</p>
<p>Q5: Do you consider there are alternatives to an EIEP 13B? Please give reasons for the alternatives.</p>	<p>Change the defined format to be a default format to be used only if alternative format is not agreed between parties. By limiting to only a single format, the Authority is limiting innovation in intermediary businesses that may develop but on different data requirements.</p> <p>Also, the current format may limit innovative pricing by retailers.</p>

QUESTION	COMMENT
<p>Q6: Do you currently have a method for providing a consumer consumption information? If yes, what is the method and does it include the information that is in EIEP 13B?</p>	<p>Yes.</p> <p>The vast majority of direct requests from customers are for a transaction history (what have I been billed and what have I paid). Very few requests for consumption data are received.</p> <p>Consumption data can be self-accesses from the Genesis Energy web portal at monthly, weekly, daily or ½ hourly periods, depending on customer choice.</p>
<p>Q7: Do you agree that an EIEP 13C is required? Please give reasons and discussion where you disagree or consider there are alternatives.</p>	<p>Yes. To achieve any sense of operational efficiency, all interactions with agents need to be codified and consistent (from experience, a large numbers of customer requests are not expected)</p> <p>Also see marked version attached.</p>
<p>Q8: Do you agree that an electronic request form should be provided to allow machine to machine requests provided that the retailer has verified the consumer's request? Please give reasons where you disagree,</p>	<p>For all agent interactions only electronic requests and data files can be used. The only transmission method is via the EIEP hub.</p> <p>Authorisations should be handled as a commercial arrangement between retailer and prospective agent. E.g. Agent signs agreement with retailer that specifies that Agent will hold authorisation for every request sent. Agent is subject to audit by retailer to ensure compliance.</p> <p>Current authorisation process which requires individual customers to contact Genesis Energy to advise of an authority's details will not work in the proposed model of interactions.</p>

QUESTION	COMMENT
<p>Q9: Do you agree with the use of a Consumer Authorisation code in EIEP 13C? If you disagree please give reasons.</p>	<p>No, it will be of more use to stipulate a request identifier to enable the agent to align a request to data received. ICP number alone is insufficient as the agent may be acting for multiple customers on the same ICP.</p>
<p>Q10: Do you agree that the registry EIEP transfer hub should be used as one of the transfer mechanisms for EIEP 13A and 13C? Please give reasons where you disagree.</p>	<p>As far as agent interactions go, for this model to work, the EIEP hub can be the only mechanism. All EIEPs (13A, B, or C) can be transmitted as agent may not require full ½ hour data set for offering to customer.</p>

Appendix C Draft procedures for the exchange of consumer consumption information

Requests for Consumer Consumption Information Procedures

Introduction

1. Clauses 11.32A to 11.32F of the Electricity Industry Participation Code (Code), which take effect on 1 February 2016, will require retailers to make consumption information available to consumers and their agents, if the consumers or their agents request it. This document sets out procedures that apply to retailers when they respond to such requests. The “retailer” includes any participant that supplies electricity to any other person for any purpose other than for resupply by the other person. This definition includes retailers that purchase electricity from any other person to on sell to a consumer.
2. Any questions about this procedures document should be directed to the Market Operations Team via marketoperations@ea.govt.nz.

What data must retailers hold and provide?

Code reference: Clause 11.32A

3. The type of information required to be held by retailers is the consumer’s electricity consumption information, used by the retailer either to calculate the amount of electricity consumed or generated by the consumer at each installation control point (ICP), or to provide any service to the consumer.
4. An example of a service to a consumer is a secure web-based access facility that provides a consumer’s consumption information in a half hourly (HHR) format, regardless of whether the HHR information is used to bill the consumer or not.
5. Each retailer must hold historical information for each consumer that purchased electricity from that retailer at any time within the last 24 months. This requirement applies from 1 February 2016 so that 24 months of information dating back to 1 February 2014 must be available to each consumer as at 1 February 2016.
6. Detail of the information related to a consumer’s consumption of electricity will vary depending on the metering equipment installed at the consumer’s ICP.
7. If the retailer receives both certified non-half hourly (NHH) and HHR information for an ICP, it must provide the certified HHR information if requested by the consumer supplied at that ICP, regardless of whether or not the HHR information is actually used to bill the consumer. If the retailer has non-certified HHR and certified NHH the retailer must provide the most detailed form of data i.e. the HHR data.
8. HHR consumption information is significantly greater in volume (usually 17520 records per year) than monthly aggregated consumption information (usually 12 records per year).
9. If available in the retailer’s information system, the retailer must provide:
 - (a) both import (consumption) and export (generation) information
 - (b) reactive power information.

What if a consumer switches retailers?

10. The example shown in Figure 1 (page 7) shows a timeline for a switch, where a consumer initially signs up with Retailer A but later switches to Retailer B. After the switch, Retailer A (the losing retailer in the example) is still required to hold consumption information for its former consumer, but for a diminishing period of time. Once 24 months has elapsed from the date of the switch, Retailer A has no further obligation to hold information for the consumer.²
11. Retailer B picks up the obligation to hold new information for the consumer it has won from Retailer A, starting at the switch date. The amount of information Retailer B is required to hold builds up until 24 months has elapsed from the switch date.
12. Within 24 months following a retailer switch, a consumer that seeks all of its consumption information will need to make at least two requests; one request each to Retailer A and Retailer B and possibly additional requests to subsequent retailers if the consumer has switched more than once in the 24 months. The information received should be contiguous across the switch date(s).

When must a retailer provide consumption information to a consumer?

Code reference: clause 11.32B

13. A request from a consumer or ~~its authorised consumer~~ agent (collectively referred to in this document as the 'requester') will trigger provision of the consumer's consumption information by a retailer. Each retailer will need to design a business process to manage consumer requests for consumption information.
14. Each retailer must provide at least one method by which a consumer may lodge a request for its consumption information, and make it clear how consumers can request their consumption information. A consumer's ~~authorised~~ agent ~~may~~ **must** use EIEP 13C to request consumption information. This is further discussed in paragraph 40.
15. Retailers must provide the requested consumption information to the requester no later than five business days after the date of the request.

Can a retailer charge a fee for providing consumption information?

Code reference 11.32B(4)

16. A retailer may impose a reasonable charge only if the consumer (including any agent acting on behalf of the consumer) has made more than four requests to it in the immediately preceding 12-months.

² At least, the retailer has no further obligation *under this section of the Code*. See Clause 18 of Schedule 15.2 for archiving and storage of raw meter data.

When must a retailer advise its consumers of the availability of consumption information?

Code reference: clause 11.32C

17. At least once in each calendar year, each retailer must notify each of its consumers of the consumer's right to access its consumption information. Retailers ~~should~~ can notify their consumers using the method they normally use to communicate important information to individual consumers (e.g. using a notice insert included with a routine mailed or emailed invoice).

What must retailers do to keep information secure?

Code reference: clause 11.32D

18. Clause 11.32D requires the retailer to:
 - (a) be satisfied as to the identity of the consumer making the request for consumption information
 - (b) ensure that only the requestor, or its agent, receives the information.
19. There are a number of ways that a retailer might comply with this clause. However, this document does not provide guidance on the measures a retailer must implement to comply. Each retailer must develop and use processes that ensure that only the appropriate consumer or its agent receives consumption information provided in accordance with clause 11.32B. This process should comply with the Privacy Act and with good business practice.
20. [A consumer agent must ensure they comply with all aspects of the Privacy Act, Fair Trading Act, and good business practice.](#) For clarity, if the requester subsequently provides the consumer's information to any other party, these information security obligations become the responsibility of the requester.

How does a consumer request their consumption information?

Code reference: clause 11.32B

21. A consumer must be able to request its consumption information by
 - (a) phone call to the retailer (mandatory)
 - (b) written request to the retailer
 - (c) via the retailers web portal
 - (ed) via ~~aaa consumer agent~~ electronic file request delivered by the registry EIEP hub.
- ~~22. A consumer may request its consumer's consumption information via the retailers web portal.~~

What if the request comes from a consumer's agent?

Code reference: clause 11.32E

2322. A consumer may authorise an agent to request the consumer's consumption information on its behalf.

2423. Each retailer must ensure that a requesting agent is properly authorised by the relevant consumer before any information is provided to that agent. This process should comply with the Privacy Act and with good business practice.

24. A consumer agent must request consumption information on behalf of the consumer with the current version of EIEP13C via the EIEP portal.

Comment [JSW1]: Suggest the guideline needs to be clear about the use of this term. E.g. For the purposes of this guideline, **consumer agent** means any person or organization who has been authorized by a consumer to receive consumption data.

Comment [AJW2]: Must have consistency of process for requests to gain operational efficiency

What format and transfer method must the retailer use to provide consumption information?

Code reference: clause 11.32F

25. Clause 11.32F(1) requires that the Authority must publicise, and keep publicised, procedures for responding to consumer requests for consumption information.
26. The Authority's published procedures consist of:
 - (a) this document
 - (b) EIEP 13A, which specifies the electronic format that must be used when providing detailed consumption information electronically to consumers or their agents
 - (c) EIEP 13B, which specifies the formats that must be used when providing summary consumption information either electronically or in hard copy to consumers or their agents
 - (d) EIEP13C, which is an electronic request file format that an agent may-must use to request a consumer's consumption information from a retailer.
27. EIEP 13A, EIEP 13B and EIEP 13C are published on the Authority's [website](#).³ Transfer methods for the EIEPs are discussed below.

EIEP 13A: Detailed electricity consumption information for consumers (half hour and non-half hour)

28. EIEP 13A:
 - (a) must be provided by a retailer on request from its consumer or the consumer's agent
 - (b) is CSV file format only

³ See <http://www.ea.govt.nz/operations/retail/eiep/regulated-electricity-information-exchange-protocols/>
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- (c) is intended for machine to machine information exchanges
- (d) ~~may be used by agents acting on behalf of consumers, or by consumers with the ability to manipulate handle large amounts of consumption information in spreadsheets~~
- (e) includes both HHR and NHH consumption information as a date and time series. The difference between the start date and time and end date and time for each record is the period that consumption occurred over.

Comment [AJW3]: Suggest that the use of the data is irrelevant to the procedures

29. ~~The manner in which~~ EIEP 13A information will be provided ~~is electronic only, and may be transferred~~ via either:

- (a) ~~in the case of a request from a consumer agent, the registry EIEP transfer hub (EIEP hub), in which case EIEP 13A will be encrypted and decrypted automatically; or~~
- (b) ~~in the case of a request directly from the consumer, the Retailers web portal or a valid email address, in which case the retailer and consumer or consumer's agent must co-operate to determine how the contents of EIEP 13A may be protected. Privacy_~~

Comment [JSW4]: Mirror approach in Clause 35(a)

Comment [AJW5]: Agents to use EIEP hub only

30. To receive consumption information in the EIEP 13A format via the EIEP hub, a consumer's agent will need to request access to the EIEP hub from the Authority. If the Authority approves the request, the agent will be required to agree to an access agreement and will:

- (a) receive a four character identifier
- (b) receive registry SFTP access to the EIEP hub.

31. In the case of SFTP access, the consumer's agent will need to query their registry outbox to obtain the consumption information. Further information about the EIEP hub can be found in the registry's [user manual](#).

~~32. To receive an EIEP 13A by email, a consumer or the consumer's agent will need to provide the retailer with a valid email address.~~

Comment [AJW6]: Agents to use EIEP hub only

~~33. When a consumer receives an EIEP 13A by email, it may elect to on-send the information to any other party. Protecting the contents of the email in that case is the responsibility of the consumer or the consumer's agent.~~

Comment [JSW7]: Unnecessary as obvious that someone needs to provide a valid email address. .

Comment [JSW8]: Unnecessary as the Privacy Act applies (referred to earlier in procedures).

EIEP 13B: Summary consumption information

34. EIEP 13B:

- (a) is CSV file format or hard copy
- (b) ~~is intended for machine to consumer information exchanges~~
- (c) may be ~~used requested~~ by consumers or ~~consumer~~ agents acting on ~~their~~
- (d) ~~behalf of consumers~~ includes only NHH consumption information as a date difference between the start date and time and end date and time for each record is the period that consumption occurred over.
- (e) The Authority recognises that retailers may wish to develop better ways to provide information to their consumers. For this reason, EIEP 13B only applies where:
 - (i) a retailer does not make equivalent information available at no cost to consumers via the retailers web portal, or
 - (ii) the consumer asks that the information be provided in printed form, ~~or~~
 - (iii) ~~EIEP13B format is requested by the consumer or their agent.~~

35. ~~EIEP 13A information will be provided via either: The manner in which information will be provided to the customer is electronic or hard copy by post, and will be chosen by the consumer or the consumer's agent and may be transferred via either:~~

- (a) in the case of a ~~request from a consumer's~~ agent, the EIEP hub in which case EIEP 13B will be encrypted and decrypted automatically; or
- (b) ~~In the case of a request from directly from the consumer, the Retailers web portal, or a valid email, or hard copy posted to the consumer, address in which case the retailer and consumer or consumer's agent must co-operate to determine how the contents of the EIEP13B may be protected; or~~
- (c) ~~hard copy posted to the consumer.~~

Comment [JSW9]: For ease of interpretation should be consistent with CI 29

~~36. Where a consumer or the consumer's agent makes a request to a retailer for EIEP 13B, the retailer must either:~~

- (a) ~~direct the consumer to the retailer's web portal where consumption information can be obtained equivalent to EIEP 13B; or~~
- (b) ~~email the consumer its consumption information equivalent to EIEP 13B; or~~
- (c) ~~provide consumption information in EIEP 13B format.~~

Comment [AJW10]: Paragraph not needed as all points already covered in CI 34 and 35

37. In the case of a consumer's agent using the EIEP hub, paragraphs 30 and 31 apply.

~~38. To receive an EIEP 13B by email, a consumer or the consumer's agent will need to provide the retailer with a valid email address.~~

~~39. When a consumer receives an EIEP 13B by email or post, it may send the information to any other party. Protecting the contents of the email or post in that case is the responsibility of the consumer or the consumer's agent.~~

Comment [JSW11]: See comments above on CI 32 and 33

EIEP 13C: Electronic request file for EIEP 13A

40. The EIEP 13C is an electronic request file for a consumer's consumption information. The electronic file ~~is intended~~ must to be used by a consumer's agent ~~(which could also be another retailer)~~ authorised by the consumer.

Comment [AJW12]: Redundant addition

41. EIEP 13C:

- (a) is CSV file format only
- (b) can only be provided from the consumer's agent to the retailer via the EIEP hub
- (c) is intended for machine to machine request exchange
- (d) ~~may only~~ must be used by agents acting on behalf of consumers
- (e) allows the consumer's agent to request either EIEP 13A ~~or EIEP13B.~~

Comment [AJW13]: Must have single process

Comment [AJW14]: Agent may not require full ½ hour data set

42. If a retailer receives an EIEP 13C, the retailer must provide the requested file format to the consumer's agent regardless of what equivalent information was available to the consumer (see paragraph 34(e) for the provision of equivalent information).

43. To ensure that a repeat request for information is correctly processed, EIEP 13C includes a unique number termed the "Consumer Authorisation code". The Consumer Authorisation code provides a time and consumer boundary within the retailer's system, to ensure that only the appropriate information is released.

Appendix D EIEP 13A: Detailed electricity consumption information for consumers (half hour and non-half hour)

Title:	EIEP 13A: Electricity conveyed information for consumers (half hour and non-half hour detailed)
Version:	DRAFT 0D
Application:	This protocol allows retailers (or their appointed agents) to provide electricity conveyed volume information electronically to a consumer and/or to a consumer's authorised agent.
Participants:	Retailers, the Authority
Non-participants:	Consumers and Consumers' agents
Code reference:	Clause 11.32A – 11.32F (effective from 1 February 2016)
Dependencies:	The Code also contains requirements relevant to the information to be provided in files that are created in accordance with this format specification.

Description of when this protocol applies
On request from a consumer or a consumer's authorised agent, a data file formatted in accordance with this EIEP 13A must be forwarded by the retailer to the consumer, or the consumer's authorised agent, to provide consumption information as required by clauses 11.32A – 11.32F of the Code.

Business requirements
<ol style="list-style-type: none"> 1. The format in which information must be given to consumers (clause 11.32F(2)(b)) is the format specified in this document. 2. Electricity conveyed is to be expressed as compensation-corrected volumes relevant to a date and time period that is defined by a start date/time value and an end date/time value. 3. The time period used in an EIEP 13A must be the most detailed consumption information that the retailer holds in its systems. For example, if a retailer holds half hourly information for publication on the web and non-half hourly information in its billing system, then the retailer should provide an EIEP 13A using half hour time periods and, on request, an EIEP 13B. Retailers most frequently hold consumption information in (a) monthly and (b) half hourly time periods. 4. Any read period comprising date and time can be accommodated using this format, whether monthly, weekly, daily, hourly, half hourly or sub half hourly: <ul style="list-style-type: none"> ○ If the resolution of a read is less than one whole day, the Time part of the DateTime formatted value must reflect the appropriate hours and minutes of the record (eg a trading period record could have a start date/time of "01/03/2016 00:30" and an end date/time of

Business requirements

- "01/03/2016 01:00").
- o If the interval of a record is equal to or longer than one whole day, the Time part of the DateTime format is to be coded as 00:00 (eg a read for the on 1 May 2016 to 5 June 2016 and would have a start date/time of "01/05/2016 00:00" and an end date/time of "05/06/2016 00:00").
5. A retailer must only use codes that are:
 - (a) stipulated in this document; or
 - (b) approved and published by the Authority; or
 - (c) determined in the registry and reconciliation functional specifications.
 6. Information provided in the file must 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 must be provided in accordance with the following status codes unless otherwise specified:
 - O Optional
 - M Mandatory where applicable
 - C Conditional - Mandatory if available and required by recipient, otherwise optional.
 9. The consumption information to be provided in an EIEP 13A formatted file is the energy volume imported or exported at [a meter register on the requested an-ICP](#) within a specified time period, after any 'multiplier' or compensation factor has been applied to the meter read, in units of:
 - (a) kilowatt-hours (kWh) for active energy, and
 - (b) kilovolt ampere hours (kVAh) for reactive energy.
 10. The amount of historical consumption information to be provided by the retailer in response to a consumer request is specified in clause 11.32A of the Code.
 11. If reactive energy volumes are held by the retailer, they must be provided if the consumer (or their agent) specifically requests this.
 12. If the retailer becomes aware of a format error in a transmitted file, or the file is incomplete or otherwise inaccurate, the retailer must advise the consumer as soon as practicable after becoming aware of the issue. This obligation is contained in clause 11.2 of the Code.
 13. If previously transmitted information is to be corrected, the retailer must provide a complete replacement file.
 14. The file must be named in accordance with the registry functional specification EI-030.
 15. All DateTime formatted data must specify NZDT (New Zealand Daylight Savings time) values, adjusted in accordance with the "TPR" format defined in clause 15.36 of the Code.

General requirements

1. If there are any conflicts between this document and the Code, the Code will take precedence.
2. For clarity, it is the responsibility of retailers to:
 - (a) comply with the Privacy Act
 - (b) maintain business confidentiality when exchanging consumer details

General requirements
(c) ensure that agent arrangements are recorded.

Data inputs
Information from a retailer's back office system.

Event data	Format	Retailer to Consumer: Mandatory/Optional/Conditional	Validation rules
Header record type	Char 3	M	HDR – indicates the row is a header record type
File type	Char 7	M	Must be ICPCONS.
Version of EIEP	Num 3.1	M	Version of EIEP that is being used for this file.
Sender	Char 20	M	Name of sending party which could be a retailer or its agent. Participant identifier to be used if the sender has an Authority approved participant identifier.
Sent on behalf of	Char 4	M	Retailers participant identifier
Recipient Participant identifier	Char 4	M	Valid recipient participant identifier. In the case of a a) customer this should be CUST b) customers agent should be an identifier of the agent provided by the customer
Report run date	DD/MM/YYYY	M	Date the report is run
Report run time	HH:MM:SS	M	Time the report is run
Unique file identifier	Char 15	M	Number that uniquely identifies the file
Number of detail records	Num 8	M	Total number of DET records in report
Report period start date	DD/MM/YYYY	M	Report run start date (inclusive)
Report period end date	DD/MM/YYYY	M	Report run end date (inclusive)
Report month	YYYYMM	M	The month the report is run in
Utility type	Char 1	M	Type of energy supply:- G → Gas; or E → Electricity
File status	Char 1	M	I (Initial) or R (Replacement)

Comment [AJW1]: Participant code of no value to consumer

Comment [AJW2]: Irrelevant, is of no value

Comment [AJW3]: Redundant rows for purpose of EIEP

Event data	Format	Retailer to Consumer: Mandatory/ Optional/ Conditional	Validation rules
<i>Detail record type</i>	Char 3	M	DET – indicates the row is a detail record of consumption information.
<i>Consumer Authorisation code</i>	Char 20	M C	A unique number that links the consumer's authorisation of the data to the data file data response to request. Only required in response to Agent request via EIEP
<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>NZDT adjustment</i>	Char 3	M	TPR or TPM. Refer to clause 15.36 of Part 15 of the Code
ANZSIC	Char 7	M	Valid code that has been assigned to the customer to differentiate domestic and business types
<i>Metering component serial number</i>	Char 15	C	Mandatory for a metering component. Identifies the metering component for installations that have multiple metering components. Includes unmetered load where there is a metering component and unmetered load on the same register content code. Optional for solely unmetered load in which case "UNM" must be used
<i>Energy Flow direction</i>	Char 1	M	An identifier of whether the channel records the import (injection from the ICP into the Network) ("I"), or the export (extraction from the Network to the ICP) ("X").
<i>Register content code</i>	Char 6	M	Identifies the register content code that information is provided for. Refer to SD-020 of the registry functional specification for a list of register content codes
Period of availability	Char 6	M	Identifies the period of availability that applies to the register content code
<i>Read period start date and time</i>	DD/MM/YYYY HH:MM	M	Date and time of start of read period.

Comment [AJW4]: Move to header

Comment [AJW5]: Irrelevant data for purpose of EIEP

Comment [AJW6]: Makes no sense. Meter serial will have only the consumption on that meter. UNM is separate physical connection even if under same ICP.

Comment [AJW7]: UNM needs further definition for inclusion e.g. There are no read dates for UNM so how is it to be reflected in file? How is shared unmetered load handled?

Comment [AJW8]: Irrelevant data for purpose of EIEP

Event data	Format	Retailer to Consumer: Mandatory/ Optional/ Conditional	Validation rules
<i>Read period end date and time</i>	DD/MM/YYYY HH:MM	M	Date and time of end of read period
<i>Trading period</i>	Int-2	C	Trading period number (1...46/48/50) Mandatory where consumption information is in trading periods Null in all other cases
<i>Read status</i>	Char-2	M	A = actual E = estimated
<i>Unit quantity active energy volume</i>	Num 12.2	M	Volume information for injection or extraction in kWh
<i>Unit quantity reactive energy volume</i>	Num 12.2	C	Volume information for extraction in kVARh. Mandatory if requested and the retailer has recorded this information, otherwise optional. Null or blank if information is not provided

Comment [AJW9]: Redundant row .
Can be determined from fields above

Comment [AJW10]: Redundant row as
all data is Actual only

Comment [AJW11]: Requires
definition of value to be included for
unmetered load

Protocol specifications

- The information is to be provided as a comma delimited text file. Commas are therefore prohibited within fields.
- Each formatted file must consist of one or more records, with each record being a single line of text as defined in this format specification document. Records must be delimited with one of the following:
 - a carriage return character and a line feed character combination (ASCII characters 13 and 10) commonly used in the Microsoft Windows operating system
 - a line feed character (ASCII character 10) commonly used in the Unix operating system, or
 - a carriage return character (ASCII character 13) commonly used in the Apple OS X operating system.
- Data fields within files must be defined using the attributes in the table following these specifications.
- Matching of file names, code list values, etc, must be case insensitive.
- Any number of ICPs, register content codes and date range may be included in a single file but each file must only be for the one customer.
- Each data file must contain only one header line.

Protocol specifications
7. The first record of a file must contain "Header" information followed by zero or more detail lines.
8. File naming process shall be in accordance with the registry functional specification EI-030

Data outputs
1. File delivered electronically to a consumer or to the consumer's agent

1 Table of codes used in EIEP 13A

1.1 Table 1 List of attributes to define data fields used in EIEP 13A

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>Numbers only: ASCII characters 48 to 57, and 45/46 where applicable.</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
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:</p> <ul style="list-style-type: none"> — YYYY for century and year <p>Month represented as:</p> <ul style="list-style-type: none"> — MM to display leading zero <p>Day represented as</p> <ul style="list-style-type: none"> — DD to display leading zero <p>ASCII format for separators</p>	DD/MM/YYYY e.g. 16/02/2005
NULL	Null	Field contains no data	

Appendix E EIEP 13B: Summary consumption information

Title:	EIEP 13B: Summary consumption information
Version:	DRAFT 0A
Application:	This protocol specifies how retailers (or their appointed agents) must provide half hour (HHR) and/or non-half hour (NHH) volume information electronically or non-half hour (NHH) volume information in printed paper form to a consumer.
Participants:	Retailers and the Authority
Users:	Consumers and Consumers' agents
Code reference:	Clause 11.32A – 11.32F (effective from 1 February 2016)
Dependencies:	The Code also contains requirements relevant to the information to be provided in files that are created in accordance with this format specification.

When this protocol applies

If a retailer receives a request for consumption data from a consumer or a consumer's authorised agent, the retailer must send the consumption information in a data file formatted in accordance with this EIEP 13B. Refer clauses 11.32A – 11.32F of the Code.

Business requirements

9. Retailers must give consumption information to consumers (clause 11.32F(2)(b)) in the format specified in this document.
10. ~~Customers may choose whether to receive an output~~ Output files may be supplied to the consumer as an electronic CSV file via by email or web portal, or a printed ~~PDF or similar~~ page by post. Out put to agents will be supplied via the EIEP hub.
11. Electricity conveyed must be expressed as compensation-corrected volumes for a date and time period that is defined by a start date/time value and an end date/time value.
12. The time period used in an EIEP 13B must ~~match be the most detailed~~ the billed consumption information that the retailer ~~holds in its systems and must comply with the following~~ has supplied to the consumer.
 - o ~~for electronic file delivery – if a retailer holds half hourly information for publication on the web and non-half hourly information in its billing system, then the retailer must provide an EIEP 13B using the trading periods and the information that was used to generate the customer's invoice.~~
 - o ~~for a printed file – EIEP13B should contain the information that was used to generate the customer's invoice.~~
13. Any read period comprising date and time can be accommodated using this format, whether

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Business requirements

monthly, weekly, daily, hourly, half hourly or sub half hourly.

- If the [resolution period](#) of a [billed read consumption](#) is less than one whole day, the Time part of the DateTime formatted value must reflect the appropriate hours and minutes of the record (e.g. a trading period record could have a start date/time of "01/03/2016 00:30" and an end date/time of "01/03/2016 01:00").
- If the [interval of a record is period of the billed consumption](#) equal to or longer than one whole day, the Time part of the DateTime format must be coded as 00:00 (e.g. a read for the on 1 May 2016 to 5 June 2016 and would have a start date/time of "01/05/2016 00:00" and an end date/time of "05/06/2016 00:00").

14. A retailer must only use codes that are:

- (d) stipulated in this document; or
- (e) approved and published by the Authority; or
- (f) specified in the registry and reconciliation functional specifications.

15. Language used in the file must be consistent with the terminology used in the Glossary of Standard Terms published by the Authority.

16. The file must contain all information required by the Code.

17. Information must be provided using with the following status codes:

- O Optional
- M Mandatory where applicable
- C Conditional - Mandatory if available and required by recipient, otherwise optional.

18. The consumption information to be provided in an EIEP 13B formatted file is the energy volume imported or exported at [a meter register on the requested an-ICP](#) within a specified time period, after any 'multiplier' or compensation factor has been applied., in units of

- (c) kilowatt-hours (kWh) for active energy, and
- (d) kilovolt ampere hours (kVArh) for reactive energy

19. The amount of historical consumption information to be provided by the retailer in response to a consumer request is specified in clause 11.32A of the Code.

20. If the retailer holds reactive energy volumes, the retailer must provide them if the consumer (or their agent) specifically requests this.

21. If the retailer becomes aware of a format error in a transmitted file, or the file is incomplete or otherwise inaccurate, the retailer must advise the consumer as soon as practicable after becoming aware of the issue. This obligation is contained in clause 11.2 of the Code.

22. Where previously transmitted information is to be corrected, the retailer must provide a complete replacement file.

23. The file must be named in accordance with the registry functional specification EI-030.

24. All DateTime formatted data must specify NZDT (New Zealand Daylight Savings time) values, ~~estimated in accordance with the "TDR" format defined in clause 45.26 of the Code.~~

General requirements

25. If there are any conflicts between this document and the Code, the Code will take precedence.

26. For clarity, it is the responsibility of retailers to:

- (d) comply with the Privacy Act
- (e) maintain business confidentiality when exchanging consumer details

Business requirements

(f) ensure that agent arrangements are recorded.

Data inputs

Information from a retailer's [back office](#) system.

Event data	Format	Retailer to Consumer: Mandatory/Optional/Conditional	Validation rules
Header record type	Char 3	M	HDR – indicates the row is a header record type
Sender	Char 20	M	Name of sending party which could be a retailer or its agent. Participant identifier to be used if the sender has an Authority-approved participant identifier.
Recipient Participant identifier	Char 4	M	Valid recipient participant identifier. In the case of a a) customer this should be CUST b) customers agent should be an identifier of the agent provided by the customer
Report run date	DD/MM/YYYY	M	Date the report is run
Report run time	HH:MM:SS	M	Time the report is run
Unique file identifier	Char 15	M	Number that uniquely identifies the file
Number of detail records	Num 8	M	Total number of DET records in report
Report period start date	DD/MM/YYYY	M	Report run start date (inclusive)
Report period end date	DD/MM/YYYY	M	Report run end date (inclusive)
Report month	YYYYMM	M	The month the report is run in
Utility type	Char 1	M	Type of energy supply: G = Gas; or E = Electricity
File status	Char 1	M	I (Initial) or R (Replacement)
NZDT adjustment	Char 3	M	TPR or TPM. Refer to clause 15.36 of Part 15 of the Code
ICP identifier	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

Comment [AJW1]: Has no relevance to consumer

Comment [AJW2]: Irrelevant, is of no value

Comment [AJW3]: Irrelevant, rows have no value

Comment [AJW4]: Move to header as applicable to whole file

Event data	Format	Retailer to Consumer: Mandatory/Optional/Conditional	Validation rules
Header record type	Char 3	M	DES – indicates the row is field descriptions, to align with columns in detail records
Title column 1	Char 30	M	Must be "Meter serial number"
Title column 2	Char 30	M	Must be "Consumption/generation"
Title column 3	Char 30	M	Must be "Register content code"
Title column 4	Char 30	M	Must be "Period of availability"
Title column 5	Char 30	M	Must be "Tariff name Register Type"
Title column 6	Char 30	M	Must be "Read period start"
Title column 7	Char 30	M	Must be "Read period end"
Title column 8	Char 30	M	Must be "Trading period number"
Title column 9	Char 30	M	Must be "Read status"
Title column 10	Char 30	M	Must be "Active energy kWh"
Title column 11	Char 30	M C	Must be "Reactive energy kVArh" <u>or blank if not supplied</u>

Comment [AJW5]: Codes have no relevance to consumers

Comment [AJW6]: Irrelevant, is of no value for purpose of EIEP

Comment [AJW7]: Register type is what is described in example. Tariff names are 'Kiwi', 'Control-a-bill' etc and bear no relevance to consumption data

Comment [AJW8]: Irrelevant, is of no value

Comment [AJW9]: Only actuals supplied

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Event data	Format	Retailer to Consumer: Mandatory/Optional/Conditional	Validation rules
Detail record type	Char 3	M	DET – indicates the row is a detail record of consumption information.
Metering component serial number	Char 15	C	Mandatory for a metering component. Identifies the metering component for installations that have multiple metering components. Includes unmetered load where there is a metering component and unmetered load on the same register content code. Optional for solely unmetered load in which case " UNM Unmetered" must be used

Comment [AJW10]: Meter serial will have only the consumption on that meter. UNM is separate physical connection even if under same ICP.

UNM needs further definition for inclusion e.g. There are no read dates for UNM so how is it to be reflected in file? How is shared unmetered load handled?

Comment [AJW11]: Codes have no relevance to consumers

Event data	Format	Retailer to Consumer: Mandatory/ Optional/ Conditional	Validation rules
Energy Flow direction	Char 15	M	An identifier of whether the channel records the import (injection from the ICP into the Network) ("I"), or the export (extraction from the Network to the ICP) ("X"). If "X" format must show words = "Consumption" If "I" format must show words = "Generation"
Register content code	Char 6	M	Identifies the register content code that information is provided for. Refer to SD 020 of the registry functional specification for a list of register content codes
Period of availability	Char 6	M	Identifies the period of availability that applies to the register content code
Read period start date and time	DD/MM/YYYY HH:MM	M	Date and time of start of read period.
Read period end date and time	DD/MM/YYYY HH:MM	M	Date and time of end of read period
Trading period	Int 2	C	Trading period number (1...46/48/50) Mandatory where consumption information is in trading periods Null in all other cases
Read status	Char 2	M	A = actual E = estimated
Tariff name Register Description	Char 50	M	Name of tariff rate, e.g. "Anytime" or "Controlled" etc
Unit quantity active energy volume	Num 12.2	M	Volume information for injection or extraction in kWh

Comment [AJW12]: Codes have no relevance to consumers, Descriptors dealt with below.

Comment [AJW13]: Irrelevant, is of no value for purpose of EIEP

Comment [AJW14]: Irrelevant, has no value in purpose of EIEP

Comment [AJW15]: Only actuals supplied

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Comment [AJW16]: Tariff names relate to retailer product, examples relate to register type

Event data	Format	Retailer to Consumer: Mandatory/ Optional/ Conditional	Validation rules
<i>Unit quantity reactive energy volume</i>	Num 12.2	M	Volume information for extraction in kVArh. Mandatory if requested and the retailer has recorded this information, otherwise optional. Null if information is not provided

Protocol specifications
<p>27. The information is to be a comma delimited text file. Commas are therefore prohibited within fields.</p> <p>28. Each formatted file must consist of one or more records, with each record being a single line of text as defined in this format specification document. Records must be delimited with one of the following:</p> <ul style="list-style-type: none"> ▪ a carriage return character and a line feed character combination (ASCII characters 13 and 10) commonly used in the Microsoft Windows operating system ▪ a line feed character (ASCII character 10) commonly used in the Unix operating system, or ▪ a carriage return character (ASCII character 13) commonly used in the Apple OS X operating system. <p>29. Data fields within files must be defined using the attributes in the table following these specifications.</p> <p>30. Matching of file names, code list values, etc., must be case insensitive.</p> <p>31. Any number of ICPs, register content codes and date range may be included in a single file but each file must only be for the one customer.</p> <p>32. Each data file must contain only one header line.</p> <p>33. The first record of a file must contain "Header" information followed by zero or more detail lines.</p> <p>34. File naming process must be in accordance with the registry functional specification EI-030</p>

Data outputs
2. File delivered electronically to a consumer or to the consumer's agent

2 Table of codes used in EIEP 13B

2.1 Table 3 List of attributes to define data fields used in EIEP 13B

Logical format	Data type	Rules	Example
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Logical format	Data type	Rules	Example
INT (n)	Integer	<p>ASCII representation of an integer number (i.e. 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 to 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>Numbers only: ASCII characters 48 to 57, and 45/46 where applicable.</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>
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>	<p>The quick brown fox</p>

Logical format	Data type	Rules	Example
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 separators	DD/MM/YYYY e.g. 16/02/2005
NULL	Null	Field contains no data	

Appendix F EIEP 13C: Request file for EIEP 13A

Title:	EIEP 13C: Request file for EIEP 13A
Version:	DRAFT 0A
Application:	This protocol allows customers (or their appointed agents) customer authorised agents to request information specified in an EIEP13A or EIEP13B to be provided electronically via the EIEP hub.
Participants:	Retailers
Non-participants:	Consumers and consumers' agents
Code reference:	Clause 11.32A – 11.32F (effective from 1 February 2016)
Dependencies:	The Code also contains requirements relevant to the information to be provided in files that are created in accordance with this format specification.

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Description of when this protocol applies
The format is used when a consumer or its agent wants to electronically requests EIEP 13A or EIEP13B information from the consumer's retailer.

Business requirements
<p>35. The relevant Code requirements are set out in clause 11.32A – 11.32F. The format in which information must be given to consumers (clause 11.32F(2)(b)) is the format specified in this document.</p> <p>36. Information provided in the file must be consistent with the terminology used in the Glossary of Standard Terms published by the Authority.</p> <p>37. The file must be named in accordance with the registry functional specification EI-030.</p>

General requirements
<p>38. If there are any conflicts between this document and the Code, the Code will take precedence.</p> <p>39. For clarity, it is the responsibility of retailers and agents to:</p> <ul style="list-style-type: none"> (g) comply with the Privacy Act (h) maintain business confidentiality when exchanging consumer details (i) ensure that agent arrangements are recorded. <p>40. The receipt of a valid EIEP13C should trigger the release of an EIEP13A or EIEP13B as requested given that an authority agreement exists between retailer and agent.</p>

Data inputs
Electronic request form

Event data	Format	Retailer to Consumer: Mandatory/Optional/Conditional	Validation rules
Header record type	Char 3	M	HDR – indicates the row is a header record type
File type	Char 7	M	Must be REQCONS.
Sender	Char 20	M	Name of sending party which could be a customer or its agent. Participant identifier must be used. if the sender has an Authority approved participant identifier.
Recipient Participant identifier	Char 4	M	Valid recipient participant identifier. In the case of a a) customer this should be CUST b) customers agent should be an identifier of the agent provided by the customer
Report run date	DD/MM/YYYY	M	Date the report is run
Report run time	HH:MM:SS	M	Time the report is run
Number of detail records	Num 8	M	Total number of DET records in report
Utility type	Char 4	M	Type of energy supply; G – Gas; or E – Electricity
File status	Char 4	M	I (Initial) or R (Replacement)

Comment [AJW1]: All agents will have participant code to access EIEP hub

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Comment [AJW2]: Recipient will always be participant, never customer.

Comment [AJW3]: No relevance purpose of EIEP

Comment [AJW4]: No relevance purpose of EIEP

Event data	Format	Consumer or consumers agent to retailer: Mandatory/Optional/Conditional	Validation rules
Detail record type	Char 3	M	DET – indicates the row is a detail record of consumption information.
Consumer name	Char 6	M	Must be the responsible person recorded by the retailer against the ICP for a period within the last 2 years

Comment [AJW5]: Duplication of field below

<u>Consumer Authorisation code</u>	<u>Char 20</u>	<u>C</u>	<p>A unique number that links the consumer's authorisation of the data to the data file if an authorisation code has been previously agreed with the retailer</p> <p>Mandatory where a code has been agreed otherwise NULL</p>
<u>Unique file request identifier</u>	Char 15	M	Number that uniquely identifies the <u>file request</u>
<u>Data version required</u>	<u>Char 7</u>	<u>M</u>	"EIEP13A" or "EIEP13B" depending on agents requirements
<u>Retailers account number</u>	Char 20	M	The account number assigned by the retailer to the consumer for the ICP
<u>ICP identifier</u>	<u>Char 15</u>	<u>M</u>	ICP identifier means a unique identifier for an ICP created by a distributor in accordance with clause 1 of Schedule 11.1
<u>Customer name</u>	Char 100	M	<p>Legal name or the name of the customer that is shown on the customers invoice. Must be the responsible person recorded by the retailer against the ICP for a period within the last 2 years</p> <p>Multiple names to be concatenated into one field</p>
<u>EIEP delivery method</u>	<u>Char 7</u>	<u>M</u>	<p>EIEP13A can be delivered via either email or the registry data hub</p> <p>"EMAIL" indicates a valid email address must be provided</p> <p>"DATAH" indicates that a valid participant identifier must be provided that has access to the registry data hub</p>
<u>Email address</u>	<u>Char 50</u>	<u>M</u>	Mandatory if "EMAIL" entered in EIEP delivery method otherwise NULL
<u>Recipient Participant identifier</u>	<u>Char 4</u>	<u>M</u>	Mandatory if "DATAH" entered in EIEP delivery method otherwise NULL

Comment [AJW6]: Dealt with in Unique request identifier filed above

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Comment [AJW7]: Redundant as all interaction needs to be via EIEP

Comment [AJW8]: Redundant – handled in header fields

Postal address country	Char 30	M	The country for postal information that is shown on the customers invoice. Can be NULL
Postal address unit	Char 25	M	Sub dwelling number; Level of sub dwelling that is shown on the customers invoice. Can be NULL
Postal address number	Char 6	M	Number issued by government agency or local government authority that identifies a point or location on a street for postal purposes that is shown on the customers invoice. Can be NULL
Postal address street	Char 30	M	Official road name issued by government agency or local government authority that is shown on the customers invoice. Can be NULL
Postal address PO Box/RD	Char 30	M	Number assigned a postal delivery box or rural delivery number that is shown on the customers invoice. Can be NULL
Postal address suburb	Char 30	M	A bounded locality within a city, town or shire principally of urban character that is shown on the customers invoice. Can be NULL
Postal address town	Char 30	M	An officially recognised and named population centre, defined within a geographic boundary that is shown on the customers invoice.
Postal address postcode	Char 30	M	The post code assigned by NZ post (zip code if outside NZ) that is shown on the customers invoice. Can be NULL
Postal address country	Char 30	M	The country for postal information that is shown on the customers invoice. Can be NULL
Postal address street	Char 30	M	Official road name issued by government agency or local government authority that is shown on the customers invoice. Can be NULL
Postal address suburb	Char 30	M	A bounded locality within a city, town or shire principally of urban character that is shown on the customers invoice. Can be NULL
Postal address town	Char 30	M	An officially recognised and named population centre, defined within a geographic boundary that is shown on the customers invoice.
Postal address unit	Char 25	M	Sub dwelling number; Level of sub dwelling that is shown on the customers invoice. Can be NULL

Protocol specifications

- 3 The information must be provided as a comma-delimited text file. Commas are therefore prohibited within fields.
- 4 Each formatted file must consist of one or more records, with each record being a single line of text as defined in this format specification document. Records must be delimited with one of the following:
 - (a) a carriage return character and a line feed character combination (ASCII characters 13 and 10) commonly used in the Microsoft Windows operating system
 - (b) a line feed character (ASCII character 10) commonly used in the Unix operating system, or
 - (c) a carriage return character (ASCII character 13) commonly used in the Apple OS X operating system.
- 5 Data fields within files must be defined using the attributes in the table following these

Protocol specifications
<p>specifications.</p> <p>6 Matching of file names, code list values, etc, must be case insensitive.</p> <p>7 Any number of ICPs, register content codes and date range may be included in a single file but each file must only be for the one consumer.</p> <p>8 Each data file must contain only one header line.</p> <p>9 The first record of a file must contain "Header" information followed by zero or more detail lines.</p> <p>10 File naming process shall be in accordance with the registry functional specification EI-030</p>

Data outputs
<p>3. File delivered electronically to a retailer from a consumer or the consumer's agent</p>

11 Table of codes used in EIEP 13C

11.1 Table 5 List of attributes to define data fields used in EIEP 13C

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>Numbers only: ASCII characters 48 to 57, and 45/46 where applicable.</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
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:</p> <ul style="list-style-type: none"> — YYYY for century and year <p>Month represented as:</p> <ul style="list-style-type: none"> — MM to display leading zero <p>Day represented as</p> <ul style="list-style-type: none"> — DD to display leading zero <p>ASCII format for separators</p>	DD/MM/YYYY e.g. 16/02/2005
NULL	Null	Field contains no data	

Title:	EIEP 13D: Request response: no data notification
Version:	DRAFT 0A
Application:	This protocol allows Retailer to advise requesting consumer agent of no data able to be supplied
Participants:	Retailers
Non-participants:	Consumer agents
Code reference:	
Dependencies:	The Code also contains requirements relevant to the information to be provided in files that are created in accordance with this format specification.

Event data	Format	Retailer to Agent:	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	Must be REQNULL.
<i>Sender Participant identifier</i>	Char4	M	Valid recipient participant identifier.
<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>Number of detail records</i>	Num 8	M	Total number of DET records in report
<i>Detail record type</i>	Char 3	M	DET – indicates the row is a detail record of consumption information.
<i>Unique request identifier</i>	Char 15	M	Number that uniquely identifies the request (from EIEP13C request)
<i>Reason code</i>	Char 3	M	Code that identifies reason data as requested can not be supplied Must be one of: 001 No ICP and Customer match 002 No ICP record 003 No Customer record 004 No Agent Authority