

# Appendix B

## Electricity Information Exchange Protocols (EIEP)

EIEP14A: Retailer **product information** ~~tariff rate notification~~

~~Non-regulated (voluntary EIEP): Effective from 1 November 2016~~

**Draft Option 1 EIEP14A comparison with EIEP14 V1.0**

~~20 September 2016~~

**5 March 2026**

## Version Control

Version	Date amended	Comments
1.0	20 September 2016	Template reformatted Finalisation of file format for publication by the Authority
DRAFT.0 OPT 1	5 March 2026	Draft update following consultation with industry and interested parties Nov-Dec 2025

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# 1. EIEP14A: Retailer product information tariff rate notification

<b>Title:</b>	<b>Electricity Information Exchange Protocol 14A – Retailer product information tariff rate notification</b>
<b>Version:</b>	Version 4.0-DRAFT.0 OPT 1
<b>Application:</b>	This protocol applies when a <b>person</b> <del>third party service provider</del> requests a retailer to provide its generally available tariff rates.
<b>Participants:</b>	Retailers
<b>Code reference:</b>	Clause 11.1(g) and 11.32( <del>g</del> G) of Part 11. <del>Not regulated.</del>
<b>Dependencies:</b>	This protocol should be read in conjunction with the connection data available for an ICP from the Authority's web portal.

Description of when this protocol applies
A retailer <del>must</del> use this protocol when responding to a request from <b>any person</b> <del>third party service provider</del> that requests the retailer's <b>product information, which may include information about the retailers generally available retail tariff plans, tariff plans which are no longer generally available, but which remain active, and their applicable product identification codes</b> <del>generally available tariff plans. This is a voluntary protocol.</del>

Business requirements
<ol style="list-style-type: none"> <li>1. The protocol is primarily designed to generate a <del>CSV formatted</del> <b>JSON structured object or file</b>. As an additional option, it can be used to develop an alternative file format (such as <del>CSV</del><b>JSON</b>) conveying the same content as agreed by the requesting and supplying parties.</li> <li>2. <b>Files or structures using this protocol must use the UTF-8 character encoding, and in recognition of the limitations of some legacy systems this must generally be limited to the US-ASCII subset listed in Table 1. Requesting and supplying parties may nevertheless agree to use a wider set to represent retailer brand names with macrons.</b></li> <li><del>2. The format should include a full and complete file of the retailer's generally available tariffs that are in use and comply with the attribute specifications and the protocol specifications that are set out in this protocol.</del></li> <li>3. If the retailer becomes aware of an error in the file, the retailer must advise the recipient of the error as soon as practicable after becoming aware of the error. The retailer may provide the recipient with a partial or full replacement file.</li> <li>4. A plan must include the conditions for application of the tariff rate.</li> <li>5. Where a tariff rate applies to a brand name, the brand name should be identified in the "Retailers name" field, and the parent participant identifier of the brand name should be used in the "Retailer participant identifier" field.</li> <li>6. Tariff rates included in this format must: <ol style="list-style-type: none"> <li>a. be GST exclusive</li> </ol> </li> </ol>

**Business requirements**

- b. have the effect of any discounts removed. Where a tariff rate has different discounts applicable, the tariff rate description should be have the discount condition appended to the tariff name eg “Anytime Wellington domestic direct debit”, and each different discount must be identified with a different tariff.
  - c. all components (such as separate rates, fees, levies etc) making up the plan must be included.
7. A file will consist of:
- a. an optional single header row
  - b. one or more **Retailer** customer type rows
  - c. optional additional attribute/condition **named Attribute** rows for each customer type which can be referenced by Customer Groups, Plans and Tariff Types
  - d. optional named Schedule rows which can be referenced by Tariff Types if there is a time component attached to the Tariff Type ~~one or more plan rows for each customer row~~
  - e. one or more named Tariff Type rows describing the parameters that are to be referenced in Tariffs ~~optional additional attribute/condition rows for each plan~~
  - f. one or more named Tariff Region rows to be referenced in Tariffs ~~one Network/Distributor row for each plan~~
  - g. one or more named Network/Distributor rows to be referenced by Tariff Regions ~~optional additional attribute/condition rows for each plan~~
  - h. one or more **Customer Group** rate rows for each plan row
  - i. one or more Plan rows for each Customer Group ~~optional rows if there is a time component attached to the rate.~~
  - j. one or more Tariff / rate rows for each Plan
- ~~8. Attribute codes used in this format are listed at the end of this format to describe certain characteristics that apply to the application of a retailers pricing plan. Attribute codes may be specific to “customer”, “plan” or “tariff” information. Where an attribute applies to a tariff, and an attribute code in Appendix 1 describes that attribute, the attribute code must be used. Where there is no attribute code that describes the attribute, a retailer may create an additional attribute code but:~~
- ~~a. additional attribute codes must conform to the standard naming convention detailed below~~
  - ~~b. retailers must provide a definition of what the attribute code means within 2 business days of a request from a third party service provider~~
  - ~~c. the retailer must provide the additional attribute code to the Authority within three months of its first use to update EIEP 14. The Authority will only decline to update a new code to EIEP 14 if another code for the same purpose already exists~~
  - ~~d. a retailer that uses a new code for the first time should advise the details of the new code to recipients of EIEP 14 until such time as the Authority publishes an update to EIEP 14.~~
8. Additional attribute codes must conform to the following:
- a. abbreviations should be avoided
  - b. words must be upper case separated by an underscore and should generally describe what the attribute is for
  - c. not exceed 50 characters in length
  - d. **attribute codes must start with a letter and comprise upper-case letters, digits and underscores only** ~~any ASCII characters used must comply with Table 1 ASCII character set shown in Appendix 1.~~
9. In this format, the term:
- a. “trader” represents the participant that buys and sells electricity from and to the clearing manager, which may be a retailer, purchaser, or generator

**Business requirements**

- b. “retailer” represents the participant that sells electricity to a consumer, which may be a participant that buys electricity from the clearing manager, or a participant that buys electricity from another participant.

**10. In this protocol, the following definitions:**

- a. Code means the Electricity Industry Participation Code 2010
- b. day means the measure of time for fixed daily charges
- c. kWh means kilowatt hour energy (real energy)

**Data inputs**

Retailers' **product information** ~~generally available price plans.~~

**Data outputs**

Completed notification of Retailer's product information for transmission by the retailer to the requestor.

**Specifications**

1. EIEP 14A may be used to structure:
  - a. Comma delimited text files (CSV): refer to point 2 below for restrictions.
  - b. JSON files or API responses: elements as described in this format must be used.
2. To accommodate limitations in some retailers' legacy systems and allow EIEP14 files to be transformed between JSON and CSV:
  - a. The character encoding must be UTF-8, and the character set used in files must be restricted to the US-ASCII subset shown in Appendix A Table 1, unless otherwise agreed by sender and recipient e.g. to represent macrons for retailers' brand names in te reo Māori.
  - b. CSV files should follow the conventions set out in RFC 4180 with the exception that recipients must allow line terminators conforming to the Microsoft (CR-LF), Unix/Linux (LF) or legacy Apple (CR) formats.
  - c. Senders should avoid the use of commas and double quotation marks within fields wherever possible, but if their use cannot be avoided, senders of CSV files must apply the quotation and escaping conventions described in RFC 4180 Section 2, and recipients must recognise these conventions.
3. Matching of file names, code list values, and other information must not be case sensitive.
4. If the protocol is used to structure a file:
  - a. the first record of a file must contain header information followed by four (RETAILER, TARIFFREGION, NETWORK, TARIFFGROUP, PLAN, TARIFF, ATTRIBUTE and SCHEDULE) or more detailed lines.
  - b. The file must have a file name that complies with the following, and must have a name that is unique to the month to which the file relates:  
 Sender +  
 Utility Type (only "E" must be used) +  
 Recipient +  
 File Type (only "PRCSCHD" must be used) +  
 Report Year and Month (yyyymm) +  
 Report Run Date (yyyymmdd) +  
 UniqueID# (UUID provided in the header)  
 with an extension of .TXT and with the components concatenated using the underscore character, to assist readability.  
  
 e.g. TRUS\_E\_UNET\_PRCSCHD\_200007\_20000802\_UniqueID.TXT  
 [Char4\_Char1\_Char4\_Char7\_yyyymm\_yyyymmdd\_uuid.TXT]
5. The specification defines the following hierarchy ~~has multiple levels, and contains optional segments to enable simplicity along with future flexibility within a csv structure.~~
  - Retailer. This level specified the retailer that offers the plans and tariffs that follow. Identifiers that link records must be unique per-retailer.
    - Attributes that relate to customers, plans or tariffs. These are collections of additional factors that define the customer, plan or tariff, referenced by a retailer-supplied identifier.
    - Schedules that relate to tariffs are a collection of timespans to which a tariff or attribute may be limited.
    - Tariff Type records hold combinations of metering information and other parameters that determine the applicability of corresponding Tariffs.
    - Tariff Regions are groups of Networks in which a given set of tariffs / rates is available.
      - Network records define the combinations of distributors, network supply points and distributor's price and loss codes that define a Tariff Region A Tariff Region with no Network records spans all Networks.
  - Customer type. This level specifies attributes particular to the customer class that the retailer is providing plans for.
    - Plan. A plan is a collection of Tariffs and Attributes that is offered by the retailer. Plans may be nationwide or limited to one or more Tariff Regions.
      - Tariff. A Tariff record provides a collection of single rates that will be applied per defined unit (i.e. \$/kWh, \$/day, \$/month). Some of these may be meter register, timespan or metering configuration dependant.
  - ~~• Level 1 – Customer type. This level specifies attributes particular to the customer class that the retailer is providing plans for, followed by 0 or more attribute rows as applicable~~
    - ~~○ Attributes that relate to customers which is a collection of factors that define the customer~~
  - ~~• Level 2 – Plan. A plan means a collection of Tariffs and Attributes available for a particular set of conditions, (ie region, configuration, etc)~~

- Attributes that relate to the plan which are not customer related. It is a collection of factors that can additionally be applied to a plan (ie a discount, constraint filter, or extra piece of information such as T&C text or a URL)
- Level 3 – A network record providing common distributor level details that will make up a portion of the above set of conditions if applicable
- Level 3 – A tariff record provide a collection of single rates that will be applied per defined unit (ie \$/kWh, \$/day, \$/month). Some of these may be meter register, timespan or metering configuration dependant.
  - Attributes that relate to tariffs which are not customer or plan related. It is a collection of factors that can additionally be applied to a tariff (ie requires loss adjustment)

Schedules that relate to tariffs are a collection of timespans to which a tariff or attribute may be limited.

Event data Field	Format	Retailer to Agent	JSONelement/attribute	Validation rules
<b>Header</b>				
A record describing the contents of a file where the protocol is used to format a file as opposed to returning an API structure. Required for CSV files only.				
Header record type	Char 3	MC	(Root)	HDR – indicates the row is a header record type.
File type	Char 7	MC	FileType	Pricing Information – PRCSCHD.
Version of EIEP	Num 3.43	MC	Version	Version of EIEP that is being used for this file.
Sender	Char 20	MC	Sender	Name of sending party. Participant identifier to be used if the sender is a participant.
Sent on behalf of	Char 4	MC	SentOnBehalfOf	Participant identifier of party on whose behalf data is provided.
Recipient	Char 4	MC	Recipient	Party code of recipient or if the same information is provided to multiple parties may be “ANY” If no party code has been assigned by the Authority leave the field blank.
Report run date & time	<del>DD/MM/YYYY</del> CHAR 30 [ISO 8601]	MC	RunDate <del>Time</del>	<del>Date the report is run</del> For a file, the date and time the report was run, or the time of the response for an API in ISO 8601 format YYYY-MM-DDTHH:MM:SS<zone-offset> - e.g. 2025-06-23T14:53:17+12
Report run Data extract date & time	HH:MM:SS	MO	Run <del>Extract</del> DateTime	<del>Time the report is run</del> If report was run from a snapshot, the date and time when the snapshot was extracted from current data.
Unique file identifier	NUM 15 Char 36 [RFC 9582]	MC	Uniquifier	<del>Reference</del> 128 bit identifier that uniquely identifies the file or API request/response. Represented as a 36 character RFC 9562 Universal Unique Identifier (UUID) e.g. a9d48b18-6b1e-439c-9d05-9b144543a96e

Event data Field	Format	Retailer to Agent	JSONelement/attribute	Validation rules
Number of detailed records Where the information is provide as CSV is the number of lines in the report. Where the information is provided as JSON is the number of tariffs contained in the file.	NUM 8	MC	RecordCount	Total number of DEF detail records in report  Where the information is provided as CSV this is the number of lines in the report. Where the information is provided as JSON this is (optionally) the number of tariffs contained in the file or object.
Utility type	Char 1	MC	UtilType	Type of energy supply, use "E" = Electricity or "G" = Gas.
File status	Char 1	MC	FileStatus	I (Initial) or R (Replacement) or X (replace only those tariffs contained in this replacement file).
<b>Retailer</b>				
This level specifies the retailer that offers the plans and tariffs that follow. Identifiers that link records (e.g. Schedule, Attribute, Network, Tariff Region and Tariff Type identifiers) under the retailer must be unique within that retailer's records.				
Retailer record type	Char 15	M	Retailers[] (in root object)	"RETAILER" – indicates the row defines the retailer that is offering the following plans and tariffs the plan is relevant for
Trader participant identifier	Char 4	MC	TraderId	Mandatory if a participant identifier has been assigned to the trader by the Authority.  Null if the trader does not have a participant identifier.
Retailer participant identifier	Char 4	C	RetailerId	Participant identifier of the retailer assigned by the Authority to the participant that purchases electricity from the clearing manager, that is then on-sold as part of this tariff  Null if the retailer does not have a participant identifier.
Retailer name	Char 50	M	RetailerBrand Name	Brand name of retailer
<b>Customer type</b>				
Customer record type	Char 15	M	Customer Groups[]	Must be "CUSTOMER"

Event data Field	Format	Retailer to Agent	JSONelement/attribute	Validation rules
Customer text	Char 1000	€	CustomerGroup	Text value or description of the rules for allocation to customers. Null if there are no rules
<p><b>Customer attributes Attribute</b></p> <p>An extendable list of common customer attributes that provides extra information for a Customer Type, Plan or Tariff record. <i>is common to a CUSTOMER TYPE</i></p> <p>Each Attribute Record must be given a unique identifier (e.g. TARIFF_END_20260820) so that it can be referenced from multiple records.</p>				
Attribute record type	Char 15	M	Attributes[] (in Retailer object)	"ATTRIBUTE" – indicates the attributes or conditions additional to rates that apply to the a customer group, plan or tariff record.
Attribute code	Char 50	€	Attribute	The name of the attribute eg "ANZSIC"
Numerical value	Num 20.6	€	NumValue	The numerical value (which may be either +ve or -ve) of the attribute eg "10.012345" or "10". Null if non-numerical attribute, ie "URL"
Text value	Char 50	€	TextValue	The unit of the attribute eg "%", "\$". Null if non-numerical attribute, ie "ANZSIC"
Description	Char 1000	€	Description	Text value or description of the rules of the attribute eg "Applies only to domestic customers with red roofs" Null if there is no attribute
<b>Plan</b>				
Plan record type Attribute record identifier	Char 1520	M	Plans[]AttributeID	"PLAN" – indicates the row defines the retailer that the tariff rate is relevant for is a tariff plan record. An identifier assigned by the retailer to this attribute record so that it can be referenced from multiple records without repetition.  Must be unique within the retailer and comprise alphanumeric and underscore characters only – no spaces.
Retailers plan code	Char 50	Q	Plan	A plan code assigned by a retailer that is unique to the plan
Retailers plan description	Char 50	M	Description	A plan description assigned by a retailer that is unique to the plan
Start date of plan	DD/MM/YYYY	€	StartDate	The future start date of the new tariff rate Null if the start date is in the past

Event data Field	Format	Retailer to Agent	JSONelement/attribute	Validation rules
End date of plan	DD/MM/YYYY	C	EndDate	The future end date of the tariff rate if it is known. Null if there is no end date
Close date	DD/MM/YYYY	C	CloseDate	The final date a customer can be signed up to the plan (no new customers after this date). Null if there is no close date
Low Fixed Charge	Char 1	M	LowFixedCharge	'Y' if provided as low fixed charge plan under the "Electricity (Low Fixed Charge Tariff Option for Domestic Consumers) Regulations 2004" otherwise "N"
<b>Plan attributes.</b> <i>An extendable list of common attributes, eligibility criteria, pricing conditions, additional information etc that is common to a PLAN.</i>				
Attribute record type	Char 15	M	Attributes[]	"ATTRIBUTE"— indicates the attributes additional to rates that apply to the plan
Attribute code	Char 50	C	Attribute	The name of the attribute eg "DISCOUNT_PROMPT_PAYMENT", "EXIT_FEE", "ANZSIC", "KVA_MAX", "EXIT_FEE" "URL"
Numerical value	Num 20,6	C	NumValue	The numerical value (which may be either +ve or -ve) of the attribute eg "10.012345" or "10". Null if non-numerical attribute, ie "URL"
Text value	Char 2550	C	TextValue	The unit of the attribute eg "%", "\$". Null if non-numerical attribute, ie "URL"
Description	Char 1000	C	Description	Text value or description of the rules of the attribute eg "Applicable if paid within 10 business days" Null if there is no attribute
<b>Network</b> <i>This record identifies the network that the plan applies to. Where a plan applies to more than one network, there should be a network row provided for each network</i>				
Network record type	Char 15	M	Networks[]	"NETWORK"— defines the network that the plan is relevant to.
Distributor participant identifier	Char 4	C	Network	Details of the distributors network (obtainable for an ICP from the registry web portal) that the plan is applicable for.

Event data Field	Format	Retailer to Agent	JSONelement/attribute	Validation rules
NSP	Char 200	G	NSP	Network supply point where a tariff rate is specific to 1 or more NSP eg CPK0331CKHK. Separate NSPs with a space where there are multiple NSPs. Mandatory if the tariff rate is applicable to an NSP. Null if not applicable
Distributor price category code	Char 200	G	DistributorPriceCategory	Price category code where a tariff rate is specific to 1 or more price category codes. Separate price category codes with a space where there are multiple codes. Mandatory if the tariff rate is applicable to a price category code. Null if not applicable
Distributor loss category code	Char 50	G	DistributorLossCategory	Loss category code where a tariff rate is specific to 1 or more loss category codes. Separate loss category codes with a space where there are multiple codes. Mandatory if the tariff rate is applicable to a loss category code. Null if not applicable
Tariff				
Tariff record type	Char 15	M	Tariffs[]	"TARIFF" — defines the eligible rates for the plan.
Retailers tariff identifier	Char 50	O	Tariff	A retailer identifier description or code assigned by a retailer that is unique to the tariff rate  Mandatory if tariff identifier used in published information
Tariff name	Char 50	M	Description	The name of this component used by the retailer and that appears on the customers invoice eg "Domestic low fixed charge under 15kVA", "Electricity Authority levy" not necessarily tied to a meter register
Fixed / Variable	Char 1	M	FixedVariable	Identifies a data row as either  "V" for variable where the rate applies to a variable and measured electricity quantity such as volume or demand or in all other cases  "F" for fixed
Tariff rate	Num 6.6	M	Rate	The specific tariff rate in either  a) where unit type is spot + %, % of cost. In all other cases dollars per unit type

Event data Field	Format	Retailer to Agent	JSONelement/attribute	Validation rules
Unit type	Char 25	G	Unit	The type of unit to which the tariff rate applies as per text value type table.
Flow direction indicator	Char 4	G	FlowDirection	For energy tariff components only, the flow direction that the plan is eligible for  X — Consumption only I — Generation only B — Both
Register content code	Char 6	G	RegisterContentCode	Identifies the register content of a meter register to be eligible for the tariff rate.  a) for fixed charges code is "Fixed" or b) for all electricity conveyed charges ie EA levy, meter lease charges "Null" or in all other cases for electricity delivered rate tariff components, as set out in SD 020 of the registry functional specification
Period of availability	Num 2.1	G	PeriodOfAvailability	Identifies the period of availability of a meter register to be eligible for the tariff rate  Null if not applicable
<b>Tariff attributes</b> An extendable list of common attributes, eligibility criteria, pricing conditions, additional information, etc that is common to a tariff				
Attribute record type	Char 15	M	Attributes[]	"ATTRIBUTE" indicates the attributes additional to rates that apply to the plan
Attribute code	Char 50	G	Attribute	The name of the attribute eg "FIXED_TERM_PERIOD"
Date value	DD/MM/YYYY -MM-DD [ISO 8601]	C	DateValue	Date if attribute is dependent on a date.  Null if non-date attribute, ie.g "URL".
Numerical value	Num 20.68	C	NumValue	The numerical value (which may be either +ve or -ve) of the attribute eg "10.012345" or "10".  Null if non-numerical attribute, ie.g "URL".
Text value	Char 255050	C	TextValue	Eg The If the Attribute is numeric, the unit in which data is supplied as per of the attribute e.g. "%", "\$"; otherwise a structured text value type tablee.g.  "ANZSIC" Null if non-numerical attribute, ie.g "URL".

Event data Field	Format	Retailer to Agent	JSONelement/attribute	Validation rules
Description	Char 1000	C	Description	Text <b>Unstructured text</b> value or description of the rules of the attribute e.g. "Applicable if paid within 10 business days" or <del>"Network or transmission losses are not included in costs"</del>  Null if there is no attribute
<p><b>Schedule</b></p> <p>A Schedule record defines the period (months, days, hours) when a Tariff Type is available.</p> <p>Each Schedule Record must be given a unique identifier (e.g. WINTER_MONTHS, BUSINESS_DAYS_OFFPEAK ) so that it can be referenced from multiple records.</p> <p>If no schedule record <b>is referenced by a Tariff Type</b>, then applicable period assumed to be available 24x7x365</p> <p>If there are multiple active periods associated with a <del>tariff</del> <b>Tariff Type rate</b>, then multiple <b>Schedule records must be referenced</b> <del>rows as required</del> so that:</p> <p>a) there is no more than one on and off period per <del>row</del> <b>schedule record</b></p> <p>b) an active period cannot span midnight; if it does two <del>rows should</del> <b>schedule records must</b> be used:-</p> <p>e.g. Off peak: 00:00-06:00, and, 22:00-24:00</p>				
Schedule record type	Char 15	M	Schedules[] (in Retailer)	"SCHEDULE" – indicates the schedule(s) for which a tariff rate applies
Schedule record Identifier	Char 20	M	ScheduleId	An identifier assigned by the retailer to this schedule record so that it can be referenced from multiple tariff types without repetition.  Must be unique within the retailer and comprise alphanumeric and underscore characters only – no spaces.
Daylight savings adjustment	Char 1	C	DaylightSavings	Indicator that <del>Flag indicating the time periods during the period</del> <b>Flag indicating</b> the time periods during the period <b>treatment</b> of daylight savings – <b>mandatory if the schedule includes Start/End times:</b>  1 – <del>times are adjusted to</del> <b>interpreted as UTC+13 when daylight saving time (NZDT), or savings is in operation and UTC+12 otherwise</b>  2 – <del>remain times are always interpreted as</del> <b>UTC+12 standard time (NZST)</b>
Start time	HH:MM	C	StartTime	Start time that the tariff is active for during a day expressed as:  a) If all day, Null, or 00.00 If part of a day, the start time.
End time	HH:MM	C	EndTime	the end time that the tariff is active for during a day expressed as:  a) If all day, Null, or 24.00 If part of a day, the end time.

Event data Field	Format	Retailer to Agent	JSONelement/attribute	Validation rules
Day type	Char 50	M	DayType	The day type that a tariff applies for ANY/Null – no set day type BD – national business day NBD – national non business day WD – weekday WE – weekend LBD – local business day LNBD – local non business day declared in the network tariff structure SBD – special business day declared in the network tariff structure SPNBD – special non business day declared in the network tariff structure Or any combination of days expressed as the first three letters of a day name separated by a space.
Month	Char 50	M	Month	Month of year that tariff rate applies to. ANY/Null or if it applies to selected months, the name of the months that the rate applies to expressed as the first three letters of a month separated by a space
<b>Tariff Type</b>				
Tariff Type records hold combinations of metering information other parameters (including Schedule and Attribute references) that determine the applicability of corresponding Tariffs.				
Tariff Type record type	Char 15	M	TariffTypes[] (in Retailer object)	“TARIFFTYPE” – defines the common parameters for Tariff records
Event data Field	Format	Retailer to Agent	JSONelement/attribute	Validation rules
Tariff Type record Identifier	Char 20	M	TariffTypeId	An identifier assigned by the retailer to this Tariff Type record so that it can be referenced from multiple tariff types without repetition. Must be unique within the retailer and comprise alphanumeric and underscore characters only – no spaces.
Tariff name	Char 50	M	Description	The name of this component used by the retailer and that appears on the customers invoice e.g. “Domestic low fixed charge under 15kVA”, “Electricity Authority levy” not necessarily tied to a meter register
Fixed / Variable	Char 1	M	FixedVariable	Identifies a data row as either “V” for variable where the rate applies to a variable and measured electricity quantity such as volume or demand or in all other cases ... “F” for fixed

Unit type	Char 25	C	Unit	The type of unit to which the tariff rate applies as per text value type table.
Flow direction indicator	Char 1	C	FlowDirection	For energy tariff components only, the flow direction that the plan is eligible for  X – Consumption only I – Generation only B – Both
Register Content Code and Period of Availability	Char 50	C	RCC-POA	A list of Register Content Code – Period of Availability pairs that determine the tariff type, represented as a space-separated list of hyphenated pairs in CSV and a list of [character, integer] pairs in JSON.  This field should be null for Fixed charges (indicated by the Fixed / Variable indicator above) or electricity conveyed charges (eg EA levy, meter lease charges).  Note1: The Register Content Code identifies the register content of a meter register to be eligible for the tariff rate for electricity delivered rate tariff components, as set out in SD-020 of the registry functional specification.  Note 2: The Period of Availability identifies the period of availability of a meter register to be eligible for the tariff rate. Where the RCC-POA field is populated, it should follow the registry specifications – using 0 to indicate that there is no maximum period of control, and 24 to indicate that the load is not actively controlled.
Schedule Identifiers	Char 200	C	ScheduleIds[]	A list of Schedule record identifiers that determine the times of day, week and/or year when the Tariff Type is available. This is JSON list or space-separate list in CSV (note that identifiers must not contain spaces).
Attribute Identifiers	CHAR 256	C	Attributelds[]	A list of Attribute record identifiers that extend or qualify the Tariff Type record and the Tariff records that reference the Tariff Type. This is JSON list or space-separate list in CSV (note that identifiers must not contain spaces).
<b>Event data Field</b>	<b>Format</b>	<b>Retailer to Agent</b>	<b>JSONelement/attribute</b>	<b>Validation rules</b>
<b>Tariff Region</b> This record identifies a Tariff Region, which is a collection of Network records referenced by all Tariff records that specify a rate that applies within the region.				
Tariff Region record type	Char 15	M	TariffRegions[] (in Retailer)	"TARIFFREGION" – comprises zero or more networks that share common tariffs. A Tariff Region with no Networks denotes all Networks / distributors.
Tariff Region identifier	Char 20	M	TariffRegionId	An identifier assigned by the retailer to this tariff region record so that it can be referenced from multiple tariff records without repetition – e.g. "LOWER_NI_RSU", "ALL_NZ"  Must be unique within the retailer and comprise alphanumeric and underscore characters only – no spaces.

Description	Char 50	O	Description	A description of the network grouping e.g. "Lower North Island Networks with Residential Standard User DPC", "Auckland Central primary and embedded Networks".
<b>Network</b>				
This record identifies a network that forms part of a Tariff Region.				
Network record type	Char 15	M	Networks[] (in TariffRegion)	"NETWORK" -- defines the network in which a set of tariff rates apply.
Distributor participant identifier	Char 4	C	Network	Distributor's participant identifier that the tariff and/or plan is applicable for. Details of the distributor's network are obtainable for an ICP from the registry web portal.
NSP	Char 200	C	NSP[]	Network supply point where tariff rates are specific to 1 or more NSPs eg CPK0331CKHK. Represented as a list of strings in JSON. Separate NSPs with a space in CSV format where there are multiple NSPs. Mandatory if the tariff rates are applicable to a subset of the Distributor's NSPs. Null if not applicable
Distributor price category code	Char 200	C	DistributorPrice Category[]	Price category code where a tariff rate is specific to 1 or more price category codes. Represented as a list of strings in JSON. Separate codes with a space in CSV format where there are multiple codes. Mandatory if the tariff rates are specific to price category codes. Null if not applicable
Distributor loss category code	Char 50	C	DistributorLoss Category[]	Loss category code where a tariff rate is specific to 1 or more loss category codes. Represented as a list of strings in JSON. Separate codes with a space in CSV format where there are multiple codes. Mandatory if the tariff rates are specific to loss category codes. Null if not applicable
<b>Event data Field</b>	<b>Format</b>	<b>Retailer to Agent</b>	<b>JSONelement/ attribute</b>	<b>Validation rules</b>

<b>Customer Type</b>				
This record specifies attributes particular to the customer class that the retailer is providing plans for				
Customer record type	Char 15	M	Customer Groups[] (in Retailer)	Must be "CUSTOMER"
Customer text	Char 1000	C	CustomerGroup	Text value or description of the rules for allocation to customers.  Null if there are no rules
Attribute Identifiers	Char 200	C	Attributelds[]	A list of Attribute Record Identifiers that apply to the Customer Group and its Plans.  This is a JSON list or space-separate list in CSV (note that identifiers must not contain spaces).
<b>Plan</b>				
Plan. A plan is a collection of Tariffs that is offered by the retailer within a Customer Type. Plans may be nationwide or limited to one or more Tariff Regions.				
Plan record type	Char 15	M	Plans[] (in Customer Group)	"PLAN" – indicates the row is a tariff plan record.
Product Identification code	Char 32	M	PlanId	In accordance with the Electricity Participation Industry Code 2010 product identification code means the unique code assigned by a retailer in accordance with clause 11.32AA to certain of its retail tariff plans.  11.32AA provides that each retailer must apply a unique product identification code to each of its retail tariff plans that come within clause 11.32G(1).
Retailer's plan description	Char 50	M	Description	A plan description assigned by a retailer that is unique to the plan across all retailers' plans.
Start date of plan	YYYY-MM-DD [ISO 8601]	C	StartDate	The future start date of the new tariff rate  Null if the start date is in the past
End date of plan	YYYY-MM-DD [ISO 8601]	C	EndDate	The future end date of the tariff rate if it is known.  Null if there is no end date
Close date	YYYY-MM-DD [ISO 8601]	C	CloseDate	The final date a customer can be signed up to the plan (no new customers after this date).  Null if there is no close date
Low Fixed Charge	Char 1	M	LowFixed Charge	'Y' if provided as low fixed charge plan under the "Electricity (Low Fixed Charge Tariff Option for Domestic Consumers) Regulations 2004" otherwise "N"
Attribute Identifiers	CHAR 256	C	Attributelds[]	A list of Attribute record identifiers that extend or qualify the plan record. This is a JSON list or space-separate list in CSV (note that identifiers must not contain spaces).

Event data Field	Format	Retailer to Agent	JSONelement/attribute	Validation rules
<b>Tariff</b> Tariff. A Tariff record provides a collection of single rates that will be applied per defined unit (ie \$/kWh, \$/day, \$/month). Some of these may be meter register, timespan or metering configuration dependant, as defined by the referenced Tariff Type record				
Tariff record type	Char 15	M	Tariffs[] (in Plan object)	"TARIFF" – defines the eligible rates for the plan.
Retailer's tariff identifier	Char 50	C	Tariff	A retailer identifier description or code assigned by a retailer that is unique to the tariff rate Mandatory if tariff identifier used in published information
Tariff Region Identifier	Char 20	M	TariffRegionId	Reference to the group of Networks for which this rate applies
Tariff Type Identifier	Char 20	M	TariffTypeId	Reference to the Tariff Type record that holds the common parameters for this rate (description, direction, RCC, PoA, units, schedules, attributes)
Tariff rate	Num 6.6	M	Rate	The specific tariff rate in either a) where unit type in the referenced Tariff Type is spot + %, % of cost. In all other cases: b) dollars per unit type

Data outputs
Completed notification of Retailer's product information for transmission by the retailer to the requestor.

## Appendix A Optional attributes list, Definitions, Protocol Specifications, ASCII character set, and text value table

### A.1. Optional attributes list: to be confirmed and extended over time

Code	Where attributes used			Values/Description
	Customer	Plan	Tariff	
ANZSIC	✓			<p>The customer's type that the tariff applies to</p> <p>1 – domestic residential only</p> <p>2 – domestic non-residential (ie holiday) only</p> <p>3 – retail only</p> <p>4 – commercial only</p> <p>5 – industrial only</p> <p>or</p> <p>Valid codes separated by a space, from a list of Australian and New Zealand Standard Industrial Classification codes stored in the registry reference tables with an additional code 000000 to indicate a residential customer.</p> <p>Mandatory if eligibility applies. Assumed 000000 if not.</p>
BATTERY_STORAGE_PLAN		✓		Plan intended for a customer with local battery storage capacity.
BUNDLED_GAS	✓	✓	✓	Indicates that the tariff is only available bundled with gas
BUNDLED_OTHER	✓	✓	✓	<p>Use the free text field to describe the bundling requirements</p> <p>As necessary, other codes may be approved by the Authority and appended to this document</p>
CLAW BACK		✓		Claw back of a joining bonus or other benefit should the contract period be broken
CREDIT_CARD_ALLOWED	✓	✓		The plan supports payment by credit card
CREDIT_CARD_FEE	✓	✓		Fee (fixed or %) charged for a credit card payment, if any.
CREDIT_CHECK	✓	✓		Indicates that a satisfactory credit check is necessary for eligibility

DISCONNECTION_FEE_NON_PAYMENT	✓	✓		Fee for disconnection for non-payment.
DISCONNECTION_FEE_VOLUNTARY	✓	✓		Fee for customer-requested disconnection.
DISCOUNT_PROMPT_PAYMENT	✓	✓		Discount for prompt payment
DISCOUNT_PAYMENT_CUSTOMER_INITIATED	✓	✓		Discount for customer-initiated automatic payment (Direct Credit)
DISCOUNT_PAYMENT_RETAILER_INITIATED	✓	✓		Discount for retailer-initiated automatic payment (Direct Debit)
DISCOUNT_OTHER	✓	✓	✓	
DISCOUNT_ELECTRONIC_BILL	✓	✓		Discount for electronic billing
EXIT_FEE	✓	✓		Break fee
ELECTRIC_VEHICLE_PLAN		✓		Plan intended for an electric vehicle user.
ELECTRONIC_BILL_ONLY	✓	✓		Paper billing is not supported
FIXED_TERM_DATE		✓	✓	Date at which a fixed term for a tariff begins
FIXED_TERM_PERIOD		✓	✓	Duration of a fixed term
FIXED_PRICE_DURING THE TERM		✓	✓	Designates a fixed price guarantee during the term
FREE_HOURS_PER_MONTH	✓	✓		The plan includes a specified number of free hours per month
FREE_HOURS_PERCENT_USAGE	✓	✓		The plan includes a specified number of free hours based on dollars spent or kWh used
FUSE_SIZE_MIN		✓	✓	
FUSE_SIZE_MAX		✓	✓	

KWH_MIN		✓	✓	Minimum monthly consumption to be eligible for a plan, or lower band threshold for a banded tariff (where permitted).
KWH_MAX		✓	✓	Maximum monthly consumption to be eligible for a plan, or upper band threshold for a banded tariff (where permitted).
KVA_MAX		✓	✓	
KVA_MIN		✓	✓	
LATE_PAYMENT_FEE	✓	✓		
LOSS_ADJUSTMENT		✓	✓	Indicator that electricity tariff rates are loss exclusive, and local and/or embedded network losses must be applied to either the electricity volume, demand or tariff rates  1 = losses are included in the tariff rates 2 = losses are excluded from the tariff rates
METER_TYPE_AMI	✓	✓	✓	The plan is only eligible for ICPs with an AMI meter and operating two-way communications
METER_TYPE_C_AND_I	✓	✓	✓	The plan is only eligible for ICPs with an HHR C&I time of use meter
METER_TYPE_NHH	✓	✓	✓	The plan is only eligible for ICPs with NHH meter registers that are not prepay
METER_TYPE_PP	✓	✓	✓	The plan is only eligible for ICPs with prepay meter registers
MULTIPLE_TRADERS_ALLOWED		✓	✓	Compatible with Multiple Trader Relationships
OTHER_GENERATION_PLAN		✓		Plan intended for non-solar generation (e.g. wind)
PAPER_BILL_FEE	✓	✓		Fee for a paper bill
PHASES		✓	✓	The number of phases that the plan is eligible for apply for which may be  1 – single phase 2 – two phase 3 – three phase 4 – any number of phases

PREPAID_ONLY	✓	✓	✓	Indicates plans or tariffs that are only available if prepaid. For Tariff, this may be combined with limited availability periods and consumption limits to achieve a "Pack" representation.
GENERATION_ONLY		✓		Indicated plan included electricity generation (flow direction "I tariffs only)
REPRESENTATIVE_TARIFFS		✓	✓	Indicates basis of tariff structure. 1 – Tariffs are fixed rates 2 – Tariffs are a mix of variable rates over and above spot rates. (i.e. Flick) 3 – Tariffs are variable rates that are over and above spot rates but with a fixed volume hedge 4 – Tariffs are unknown/estimated for a period, (ie Powershop)
SIGNON_FEE	✓	✓		Entrance fee
SIGNON_BOND	✓	✓		Bond requirements
SIGNON_BONUS	✓	✓		Sign on credit/value/bonus
SOLAR_GENERATION_PLAN		✓		Plan intended for a customer with solar generation.
SURCHARGE	✓	✓		Applies to certain types of payments
TARIFF_START_DATE			✓	Date when the tariff rate came or will come into effect
TARIFF_END_DATE			✓	Date after which the tariff rate was or will be superseded
TARIFF_CLOSE_DATE			✓	Date after which the tariff will no longer be offered if subject to FIXED_PRICE_DURING_THE_TERM
TERMS_AND_CONDITIONS	✓	✓	✓	Additional terms and conditions, free text
URL		✓	✓	Web link for more information, free text

**Protocol specifications**

1. ~~Where the file is delivered as a:
 
  - a. ~~Comma delimited text file. Commas must not be used within fields. If portions of a field require separation, a tilde character (~) must be used. If commas need to be used in the fields, quotation marks must be used to exclude them as separators, as per the DOS GSV format.~~
  - b. ~~JSON file. JSON element attributes as schedule in this format must be used.~~~~
2. ~~Matching of file names, code list values, and other information must not be case sensitive.~~
3. ~~The file must contain one header.~~
4. ~~The first record of a file must contain header information followed by three (RETAILER, PLAN, NETWORK, TARIFF, ATTRIBUTE and SCHEDULE) or more detailed lines.~~
5. ~~The file must have a file name that complies with the following, and must have a name that is unique to the month to which the file relates:~~

~~Sender + Utility Type (only "E" must be used) + Recipient + File Type (only "PRCSCHD" must be used) + Report Year and Month (yyyymm) + Report Run Date (yyyymmdd) + 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\_PRCCHD\_200007\_20000802\_UniqueID.TXT~~

~~{Char4\_Char1\_Char4\_Char7\_yyyyymm\_yyyymmdd\_Char60.TXT}~~

**Data outputs**

~~Completed notification of generally available tariffs for transmission by the retailer to the requestor.~~

**Definitions**

1. ~~In this protocol, the following definitions apply:
 
  - a. ~~Code means the Electricity Industry Participation Code 2010~~
  - b. ~~day means the measure of time for fixed daily charges~~
  - c. ~~kWh means kilo-watt hour energy (real energy).~~~~
2. ~~Unless the context otherwise requires, any term that is defined in the Code and used in this protocol has the same meaning as in the Code.~~

~~a.~~

## A.2. Character set (refer Specifications paragraphs 2.a and 2.c)

**Table 1: US-ASCII character set for use within fields of EIEP 14A**

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
44	,	76	L	109	m
45	-	77	M	110	n
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	`		

### A.3. Table 2 Text value table.

**Table 2: Text value table**

Unit	Description
Day	Period measured in days
Week	Period measured in weeks
Month	Period measured in months
kWh	kilowatt hour energy (real energy)
kW	kilowatt demand (real power)
kVAh	kilovolt ampere hour energy (apparent energy)
kVA	kilovolt ampere demand (apparent power)
kVArh	kilovolt ampere reactive hour energy (reactive energy)
kVAr	kilovolt ampere reactive demand (reactive power)
kVAkm	kilovolt ampere multiplied by kilometres
Day	Measure of time for fixed daily charges
PF	Power factor
Equipment	Fixed charges for specific equipment (eg transformers)

Unit	Description
Note: This list is not exhaustive, alternative units and descriptions may be used if contained in the distributors price schedule.	

## Appendix B CSV file format examples

### Example 1

Simple example available to the entire Wellington (CKHK) region from 'A Simple Retailer Ltd'.

- a) Two basic plans, (LFC and SFC both covering IN, CN and UN tariffs) for domestic consumers

```
HDR,PRCSCHD,1,ASRL,ASRL,ANY,23/05/2016,01:23:45,12345,15,1
RETAILER,ASRL,ASRL,Simple Retailer Ltd
CUSTOMER,General domestic
ATTRIBUTE,ANZSIC,,,0000000
PLAN,PRSU,Residential - standard user,,,,N
NETWORK,CKHK,,RSU,
TARIFF,RSU-FIXED,Daily supply charge,F,2.1560,Day,B,Fixed,
TARRIF,RSU-24UN,Anytime,V,0.1937,kWh,X,UN,24
TARRIF,RSU-AICO,All inclusive,V,0.1737,kWh,X,IN,17
TARRIF,RLU-CTRL,Controlled - hot water,V,0.1537, kWh,X,CN,19
PLAN,PRLU,Residential - low user,,,,Y
NETWORK, CKHK,,RLU,
TARIFF,RLU-FIXED,Daily supply charge,F,0.3333,Day,B,Fixed,
TARRIF,RLU-24UN,Anytime,V,0.2768,kWh,X,UN,24
TARRIF,RLU-AICO,All inclusive,V,0.2568,kWh,X,IN,17
TARRIF,RLU-CTRL,Controlled - hot water,V,0.2368, kWh,X,CN,19
```

```
HDR,PRCSCHD,2,006,ASRL,ASRL,ANY,2016-05-22T12:23:45+12,,c7d90f3a-d62b-4923-95c4-4aef120d831e,22,E,I
RETAILER,ASRL,ASRL,Simple Retailer Ltd
ATTRIBUTE,AT_anzsic_000000,ANZSIC,,,000000,
TARIFFREGION,TR_CKHK,
NETWORK,CKHK,,RSU,
TARIFFREGION,TR_CKHK_RLU,
NETWORK,CKHK,,RLU,
TARIFFTYPE,TT_dly_sup_chg,Daily supply charge,F,Day,B,,,
TARIFFTYPE,TT_any,Anytime,V,kWh,X,UN-24,,
TARIFFTYPE,TT_aic,All inclusive,V,kWh,X,IN-17,,
TARIFFTYPE,TT_ctl_hwt,Controlled - hot water,V,kWh,X,CN-19,,
CUSTOMER,General domestic,AT_anzsic_000000
PLAN,PRSU,Residential - standard user,,,,N,
TARIFF,RSU-FIXED,TR_CKHK,TT_dly_sup_chg,2.156
TARIFF,RSU-24UN,TR_CKHK,TT_any,0.1937
TARIFF,RSU-AICO,TR_CKHK,TT_aic,0.1737
TARIFF,RLU-CTRL,TR_CKHK,TT_ctl_hwt,0.1537
PLAN,PRLU,Residential - low user,,,,Y,
TARIFF,RLU-FIXED,TR_CKHK_RLU,TT_dly_sup_chg,0.3333
TARIFF,RLU-24UN,TR_CKHK_RLU,TT_any,0.2768
TARIFF,RLU-AICO,TR_CKHK_RLU,TT_aic,0.2568
TARIFF,RLU-CTRL-1,TR_CKHK_RLU,TT_ctl_hwt,0.2368
```

**Example 2**

Simple seasonal (summer/winter) example available to the entire Wellington (CKHK) region from 'A Simple Retailer Ltd'.

- a) Two basic (seasonal) plans, (LFC and SFC both covering IN, CN and UN tariffs) for domestic consumers

```
HDR,PRCSCHD,1,ASRL,ASRL,ANY,23/05/2016,01:23:45,12345,15,1
RETAILER,ASRL,ASRL,Simple Retailer Ltd
CUSTOMER,General domestic
ATTRIBUTE,ANZSIC,,,0000000
PLAN,PRSU,Residential – seasonal standard user,,,N
NETWORK,CKHK,,RSU,
TARIFF,RSU-FIXED,Daily supply charge,F,2.1560,Day,B,Fixed,
TARRIF,RSU-24UN,Anytime (summer),V,0.1837,kWh,X,UN,24
SCHEDULE,NZDT,,,,JAN FEB MAR APR OCT NOV DEC,
TARRIF,RSU-24UN,Anytime (winter),V,0.2037,kWh,X,UN,24
SCHEDULE,NZDT,,,,APR MAY JUN JUL AUG SEP,
TARRIF,RSU-AICO,All inclusive (summer),V,0.1637,kWh,X,IN,17
SCHEDULE,NZDT,,,,JAN FEB MAR APR OCT NOV DEC,
TARRIF,RSU-AICO,All inclusive (winter),V,0.1837,kWh,X,IN,17
SCHEDULE,NZDT,,,,APR MAY JUN JUL AUG SEP,
TARRIF,RLU-CTRL,Controlled – hot water (summer),V,0.1437, kWh,X,CN,19
SCHEDULE,NZDT,,,,JAN FEB MAR APR OCT NOV DEC,
TARRIF,RLU-CTRL,Controlled – hot water (winter),V,0.1637, kWh,X,CN,19
SCHEDULE,NZDT,,,,APR MAY JUN JUL AUG SEP,
PLAN,PRLU,Residential – seasonal low user,,,Y
NETWORK, CKHK,,RLU,
TARIFF,RLU-FIXED,Daily supply charge (low user),F,0.3333,Day,B,Fixed,
TARRIF,RLU-24UN,Anytime (low user – summer),V,0.2668,kWh,X,UN,24
SCHEDULE,NZDT,,,,JAN FEB MAR APR OCT NOV DEC,
TARRIF,RLU-24UN,Anytime (low user – winter),V,0.2868,kWh,X,UN,24
SCHEDULE,NZDT,,,,APR MAY JUN JUL AUG SEP,
TARRIF,RLU-AICO,All inclusive (low user – summer),V,0.2468,kWh,X,IN,17
SCHEDULE,NZDT,,,,JAN FEB MAR APR OCT NOV DEC,
TARRIF,RLU-AICO,All inclusive (low user – winter),V,0.2668,kWh,X,IN,17
SCHEDULE,NZDT,,,,APR MAY JUN JUL AUG SEP,
TARRIF,RLU-CTRL,Controlled – hot water (low user – summer),V,0.2268, kWh,X,CN,19
SCHEDULE,NZDT,,,,JAN FEB MAR APR OCT NOV DEC,
TARRIF,RLU-CTRL,Controlled – hot water (low user – winter),V,0.2468, kWh,X,CN,19
SCHEDULE,NZDT,,,,APR MAY JUN JUL AUG SEP,
```

```
HDR,PRCSCHD,2.006,ASRL,ASRL,ANY,2016-05-22T12:23:45+12,,c7d90f3a-d62b-4923-95c4-4aef120d831e,40,E,I
RETAILER,ASRL,ASRL,Simple Retailer Ltd
ATTRIBUTE,AT_anzsic_000000,ANZSIC,,,000000,
SCHEDULE,SC_summer,1,,,,JAN FEB MAR OCT NOV DEC
SCHEDULE,SC_winter,1,,,,APR MAY JUN JUL AUG SEP
TARIFFREGION,TR_CKHK_RSU
NETWORK,CKHK,,RSU,
TARIFFREGION,TR_CKHK_RLU
NETWORK,CKHK,,RLU,
TARIFFTYPE,TT_dly_sup_chg,Daily supply charge,F,Day,B,,,
TARIFFTYPE,TT_any_sum,Anytime (summer),V,kWh,X,UN-24,SC_summer,
TARIFFTYPE,TT_any_win,Anytime (winter),V,kWh,X,UN-24,SC_winter,
TARIFFTYPE,TT_aic_sum,All inclusive (summer),V,kWh,X,IN-17,SC_summer,
TARIFFTYPE,TT_aic_win,All inclusive (winter),V,kWh,X,IN-17,SC_winter,
TARIFFTYPE,TT_ctl_hwt_sum,Controlled - hot water (summer),V,kWh,X,CN-19,SC_summer,
TARIFFTYPE,TT_ctl_hwt_win,Controlled - hot water (winter),V,kWh,X,CN-19,SC_winter,
TARIFFTYPE,TT_dly_sup_chg_low_use,Daily supply charge (low user),F,Day,B,,,
TARIFFTYPE,TT_any_low_use_sum,Anytime (low user - summer),V,kWh,X,UN-24,SC_summer,
TARIFFTYPE,TT_any_low_use_win,Anytime (low user - winter),V,kWh,X,UN-24,SC_winter,
TARIFFTYPE,TT_aic_low_use_sum,All inclusive (low user - summer),V,kWh,X,IN-17,SC_summer,
TARIFFTYPE,TT_aic_low_use_win,All inclusive (low user - winter),V,kWh,X,IN-17,SC_winter,
TARIFFTYPE,TT_ctl_hwt_low_use_sum,Controlled - hot water (low user - summer),V,kWh,X,CN-19,SC_summer,
TARIFFTYPE,TT_ctl_hwt_low_use_win,Controlled - hot water (low user - winter),V,kWh,X,CN-19,SC_winter,
CUSTOMER,General domestic,AT_anzsic_000000
PLAN,PRSU,Residential - seasonal standard user,,,N,
TARIFF,RSU-FIXED,TR_CKHK,TT_dly_sup_chg,2.156
TARIFF,RSU-24UN-S,TR_CKHK,TT_any_sum,0.1837
TARIFF,RSU-24UN-W,TR_CKHK,TT_any_win,0.2037
TARIFF,RSU-AICO-S,TR_CKHK,TT_aic_sum,0.1637
TARIFF,RSU-AICO-W,TR_CKHK,TT_aic_win,0.1837
TARIFF,RSU-CTRL-S,TR_CKHK,TT_ctl_hwt_sum,0.1437
TARIFF,RSU-CTRL-W,TR_CKHK,TT_ctl_hwt_win,0.1637
```

PLAN,PRLU,Residential - seasonal low user,,Y,  
TARIFF,RLU-FIXED,TR\_CKHK\_RLU,TT\_dly\_sup\_chg\_low\_use,0.3333  
TARIFF,RLU-24UN-S,TR\_CKHK\_RLU,TT\_any\_low\_use\_sum,0.2668  
TARIFF,RLU-24UN-W,TR\_CKHK\_RLU,TT\_any\_low\_use\_win,0.2868  
TARIFF,RLU-AICO-S,TR\_CKHK\_RLU,TT\_aic\_low\_use\_sum,0.2468  
TARIFF,RLU-AICO-W,TR\_CKHK\_RLU,TT\_aic\_low\_use\_win,0.2668  
TARIFF,RLU-CTRL-S,TR\_CKHK\_RLU,TT\_ctl\_hwt\_low\_use\_sum,0.2268  
TARIFF,RLU-CTRL-W,TR\_CKHK\_RLU,TT\_ctl\_hwt\_low\_use\_win,0.2468

**Example 3**

Simple example available to a subset of the Wellington (CKHK) region from 'A Simple Retailer Ltd'.

- a) Two basic plans, (LFC and SFC both covering available distribution tariffs ie IN, CN, UN, Day/Night and EV) for domestic consumers. The rates come into effect 1 April 2016, and will not be offered to new customers after 30 June 2016. The plan offers a 10% discount for prompt payment, and a further 2% discount for a direct debit payment.
- b) They are further limited to a region (Three central city NSPs) and Distributor Price Categories, (separate sets for LFC and SFC as tends to be the case in Wellington)
- c) Schedules are provided for the EV tariffs

```
HDR,PRCSCHD,1,ASRL,ASRL,ANY,23/05/2016,01:23:45,12345,25,t
RETAILER,ASRL,ASRL,Simple Retailer Ltd
CUSTOMER,General domestic
ATTRIBUTE,ANZSIC,,,0000000
ATTRIBUTE,DISCOUNT_PROMPT_PAYMENT,10,%
ATTRIBUTE,DISCOUNT_PAYMENT_RETAILER_INITIATED,2,%
PLAN,PRSU,Residential - standard user,01/04/2016,,30/06/2016,N
NETWORK,CKHK,WIL0331CKHK-CPK0331CKHK-CPK0111CKHK,RSU,LCC1
TARIFF,RSU-FIXED,Daily supply charge,F,2.1560,Day,B,Fixed,
TARRIF,RSU-24UN,Anytime,V,0.1937,kWh,X,UN,24
TARRIF,RSU-AICO,All inclusive,V,0.1737,kWh,X,IN,17
TARRIF,RLU-CTRL,Controlled - hot water,V,0.1537, kWh,X,CN,19
TARRIF,RSU-16D,Daytime,V,0.1937,kWh,X,D,16
TARRIF,RSU-NITE,Night only,V,0.1337, kWh,X,N,8
TARRIF,RSU-EVNITE,Electric vehicle - night only,V,0.1337,kWh,X,UN,10
SCHEDULE,NZDT,21:00,24:00,,,
SCHEDULE,NZDT,00:00,07:00,,,
PLAN,PRLU,Residential - low user,01/04/2016,,30/06/2016,Y
NETWORK,CKHK,WIL0331CKHK-CPK0331CKHK-CPK0111CKHK,RLU,LCC1
TARIFF,RLU-FIXED,Daily supply charge,F,0.3333,Day,B,Fixed,
TARRIF,RLU-24UN,Anytime,V,0.2768,kWh,X,UN,24
TARRIF,RLU-AICO,All inclusive,V,0.2568,kWh,X,IN,17
TARRIF,RLU-CTRL,Controlled - hot water,V,0.2368, kWh,X,CN,19
TARRIF,RLU-16D,Daytime,V,0.2768,kWh,X,D,16
TARRIF,RLU-NITE,Night only,V,0.2368, kWh,X,N,8
TARRIF,RLU-EVNITE,Electric vehicle - night only,V,0.2368,kWh,X,UN,10
SCHEDULE,NZDT,21:00,24:00,,,
SCHEDULE,NZDT,00:00,07:00,,,
```

```
HDR,PRCSCHD,2.006,ASRL,ASRL,ANY,2016-05-22T12:23:45+12,,c7d90f3a-d62b-4923-95c4-4aef120d831e,35,E,I
RETAILER,ASRL,ASRL,Simple Retailer Ltd
ATTRIBUTE,AT_anzsic_000000,ANZSIC,,,000000,
ATTRIBUTE,AT_Disc_PP_10,DISCOUNT_PROMPT_PAYMENT,,10,%
ATTRIBUTE,AT_Disc_PRI_2,DISCOUNT_PAYMENT_RETAILER_INITIATED,,2,%
SCHEDULE,SC_h21_24,1,21:00,24:00,,
SCHEDULE,SC_h00_07,1,00:00,07:00,,
TARIFFREGION,TR_CKHK_RSU
NETWORK,CKHK,CPK0111CKHK-CPK0331CKHK-WIL0331CKHK,RSU,LCC1
TARIFFREGION,TR_CKHK_RLU
NETWORK,CKHK,CPK0111CKHK-CPK0331CKHK-WIL0331CKHK,RLU,LCC1
TARIFFTYPE,TT_dly_sup_chg,Daily supply charge,F,Day,B,,
TARIFFTYPE,TT_any,Anytime,V,kWh,X,UN-24,,
TARIFFTYPE,TT_aic,All inclusive,V,kWh,X,IN-17,,
TARIFFTYPE,TT_ctl_hwt,Controlled - hot water,V,kWh,X,CN-19,,
TARIFFTYPE,TT_day,Daytime,V,kWh,X,D-16,,
TARIFFTYPE,TT_ngt,Night only,V,kWh,X,N-8,,
TARIFFTYPE,TT_ev_ngt,Electric vehicle - night only,V,kWh,X,UN-10,SC_h00_07 SC_h21_24,
CUSTOMER,General domestic,AT_Disc_PP_10 AT_Disc_PRI_2 AT_anzsic_000000
PLAN,PRSU,Residential - standard user, 2016-04-01,,2016-06-30,N,
TARIFF,RSU-FIXED,TR_CKHK,TT_dly_sup_chg,2.156
TARIFF,RSU-24UN,TR_CKHK,TT_any,0.1937
TARIFF,RSU-AICO,TR_CKHK,TT_aic,0.1737
TARIFF,RSU-CTRL,TR_CKHK,TT_ctl_hwt,0.1537
TARIFF,RSU-16D,TR_CKHK,TT_day,0.1937
TARIFF,RSU-NITE,TR_CKHK,TT_ngt,0.1337
TARIFF,RSU-EVNITE,TR_CKHK,TT_ev_ngt,0.1337
PLAN,PRLU,Residential - low user, 2016-04-01,,2016-06-30,Y,
TARIFF,RLU-FIXED,TR_CKHK_RLU,TT_dly_sup_chg,0.3333
TARIFF,RLU-24UN,TR_CKHK_RLU,TT_any,0.2768
```

TARIFF,RLU-AICO,TR\_CKHK\_RLU,TT\_aic,0.2568  
TARIFF,RLU-CTRL,TR\_CKHK\_RLU,TT\_ctl\_hwt,0.2368  
TARIFF,RLU-16D,TR\_CKHK\_RLU,TT\_day,0.2768  
TARIFF,RLU-NITE,TR\_CKHK\_RLU,TT\_ngt,0.2368  
TARIFF,RLU-EVNITE,TR\_CKHK\_RLU,TT\_ev\_ngt,0.2368

## Example 4

Simple example showing 2 residential and one commercial plan available in Auckland and Wellington networks from 'A Simple Retailer Ltd'. This example illustrates Tariff Regions and the nationwide approach to plan definition.

```
HDR,PRCSCHD,2.006,ASRL,ASRL,3ABC, 2016-05-22T12:23:45+12,,c7d90f3a-d62b-4923-95c4-4aef120d831e,67,E,I
RETAILER,ASRL,ASRL,A Simple Retailer Lid
ATTRIBUTE,AT_anzsic_1,ANZSIC,,,,1
ATTRIBUTE,AT_bdl_gas_onl,BUNDLED_GAS,,,,Only available bundled with gas
ATTRIBUTE,AT_crd_chk,CREDIT_CHECK,,,,
ATTRIBUTE,AT_dsc_gas_10,DISCOUNT_GAS,,10,%,10% Discount for bundling with gas
ATTRIBUTE,AT_mtr_typ_nhh,METER_TYPE_NHH,,,,
ATTRIBUTE,AT_anzsic_4,ANZSIC,,,,4
TARIFFREGION,TR_AKL_U
NETWORK,UNET,,WRNLU WRNSU WRUL WRUS,
NETWORK,VECT,,ARNLU ARNSU ARUL ARUS,
TARIFFREGION,TR_NI
NETWORK,CKHK,,RLU RLUTOU RSU RSUTOU,
NETWORK,UNET,,WRNLU WRNSU WRUL WRUS,
NETWORK,UNET,,WRCL WRCS WRNLC WRNSC,
NETWORK,VECT,,ARNLU ARNSU ARUL ARUS,
NETWORK,VECT,,ARCL ARCS ARNLC ARNSC,
TARIFFREGION,TR_AKL_C
NETWORK,UNET,,WRCL WRCS WRNLC WRNSC,
NETWORK,VECT,,ARCL ARCS ARNLC ARNSC,
TARIFFREGION,TR_CKHK
NETWORK,CKHK,,RLU RLUTOU RSU RSUTOU,
TARIFFREGION,TR_AKL_RES
NETWORK,UNET,,WRNLU WRNSU WRUL WRUS,
NETWORK,UNET,,WRCL WRCS WRNLC WRNSC,
NETWORK,VECT,,ARNLU ARNSU ARUL ARUS,
NETWORK,VECT,,ARCL ARCS ARNLC ARNSC,
TARIFFREGION,TR_UNET_WBSN
NETWORK,UNET,,WBSN,
TARIFFREGION,TR_AKL_BUS
NETWORK,UNET,,WBSN,
NETWORK,VECT,,ABSN,
TARIFFREGION,TR_VECT_ABSN
NETWORK,VECT,,ABSN,
TARIFFTYPE,TT_unc_usg_chg,Uncontrolled Usage Charge,V,kWh,X,CN-20 DIN-16 IN-24 UN-24,,
TARIFFTYPE,TT_fxd_dly_chg,Fixed Daily Charge,F,day,,,,
TARIFFTYPE,TT_aic_usg_chg,All-Inclusive Usage Charge,V,kWh,X,CN-20 DIN-16 IN-24 UN-24,,
TARIFFTYPE,TT_unc_usg_chg_UN24,Uncontrolled Usage Charge,V,kWh,X,DIN-16 UN-24,,
TARIFFTYPE,TT_aic_usg_chg_IN24,All-Inclusive Usage Charge,V,kWh,X,IN-24,,
TARIFFTYPE,TT_ctl_usg_chg,Controlled Usage Charge,V,kWh,X,CN-20 CN-24,,
CUSTOMER,Residential,AT_anzsic_1 AT_bdl_gas_onl AT_crd_chk
PLAN,ASRL_RLU_GAS_UNC,Residential low user plan with gas,,,,Y,AT_dsc_gas_10 AT_mtr_typ_nhh
TARIFF,UUC_RLU_AKL_U,TR_AKL_U,TT_unc_usg_chg,0.3417
TARIFF,FDC_RLU_NI,TR_NI,TT_fxd_dly_chg,1.5000
TARIFF,AIUC_RLU_AKL_C,TR_AKL_C,TT_aic_usg_chg,0.3255
TARIFF,UUC_RLU_CKHK_UN24,TR_CKHK,TT_unc_usg_chg_UN24,0.3177
TARIFF,AIUC_RLU_CKHK_IN24,TR_CKHK,TT_aic_usg_chg_IN24,0.2906
TARIFF,CUC_RLU_CKHK_CN20,TR_CKHK,TT_ctl_usg_chg,0.2500
PLAN,ASRL_RSU_GAS_UNC,Residential standard user plan with gas,,,,N,AT_dsc_gas_10 AT_mtr_typ_nhh
TARIFF,UUC_RSU_AKL_U,TR_AKL_U,TT_unc_usg_chg,0.2722
TARIFF,FDC_RSU_NI,TR_AKL_RES,TT_fxd_dly_chg,3.0261
TARIFF,AIUC_RSU_AKL_C,TR_AKL_C,TT_aic_usg_chg,0.2558
TARIFF,UUC_RSU_CKHK_UN24,TR_CKHK,TT_unc_usg_chg_UN24,0.2521
TARIFF,AIUC_RSU_CKHK_IN24,TR_CKHK,TT_aic_usg_chg_IN24,0.2250
TARIFF,CUC_RSU_CKHK_CN20,TR_CKHK,TT_ctl_usg_chg,0.1843
TARIFF,FDC_RSU_CKHK,TR_CKHK,TT_fxd_dly_chg,2.9391
CUSTOMER,Commercial,AT_anzsic_4 AT_bdl_gas_onl AT_crd_chk
PLAN,ASRL_COM_GAS,Commercial user plan,,,,N,AT_dsc_gas_10 AT_mtr_typ_nhh
TARIFF,UUC_COM_UNET_UN24,TR_UNET_WBSN,TT_unc_usg_chg,0.2528
TARIFF,FDC_COM_AKL,TR_AKL_BUS,TT_fxd_dly_chg,3.2380
TARIFF,UUC_COM_VECT_UN24,TR_VECT_ABSN,TT_unc_usg_chg,0.2496
```

## Appendix C JSON file format examples

### Example 1

Simple example available to the entire Wellington (CKHK) region from 'A Simple Retailer Ltd'. (As per [Appendix 2B](#), example 1)

```

{
  "FileType": "PRCSCHD",
  "Version": 1,
  "Sender": "ASRL",
  "SentOnBehalfOf": "ASRL",
  "Recipient": "ANY",
  "RunDate": "2016-05-23",
  "RunTime": "01:23:45",
  "Uniquifier": 12345,
  "RecordCount": "8",
  "FileStatus": "I",
  "Retailers":
  {
    {
      "TraderId": "ASRL",
      "RetailerId": "ASRL",
      "RetailerBrandName": "A Simple Retailer Ltd",
      "CustomerGroups":
      {
        {
          "CustomerGroup": "General-domestic",
          "Attributes":
          {
            {
              "Attribute": "ANZSIC",
              "TextValue": "0000000"
            }
          }
        };
        "Plans":
        {
          {
            "Plan": "PRSU",
            "Description": "Residential - standard user",
            "LowFixedCharge": "N",
            "Networks":
            {
              {
                "Network": "CKHK",
                "DistributorPriceCategory": "RSU"
              }
            }
          };
          "Tariffs":
          {
            {
              "Tariff": "RSU-FIXD",
              "Description": "Daily supply charge",
              "FixedVariable": "F",
              "Rate": 2.1560,
              "Unit": "Day",
              "FlowDirection": "B",
              "RegisterContentCode": "Fixed",
            };
            {
              "Tariff": "RSU-24UN",
              "Description": "Anytime",
              "FixedVariable": "V",
              "Rate": 0.1937,
              "Unit": "kWh",
              "FlowDirection": "X",
              "RegisterContentCode": "UN",
              "PeriodOfAvailability": 24
            };
            {
              "Tariff": "RSU-AICO",
              "Description": "All inclusive",
              "FixedVariable": "V",
              "Rate": 0.1737,
              "Unit": "kWh",
              "FlowDirection": "X",
            }
          }
        }
      }
    }
  }
}

```



```

"Version": 2.006,
"Sender": "ASRL",
"SentOnBehalfOf": "ASRL",
"Recipient": "ANY",
"RunDateTime": "2016-05-22T12:23:45+12",
"ExtractDateTime": "2016-05-22T12:23:45+12",
"Uniquifier": "c7d90f3a-d62b-4923-95c4-4aef120d831e",
"RecordCount": 8,
"UtilType": "E",
"FileStatus": "I",
"Retailers": [
{
  "TraderId": "ASRL",
  "RetailerId": "ASRL",
  "RetailerBrandName": "Simple Retailer Ltd",
  "Attributes": [
    {
      "AttributeId": "AT_anzsic_000000",
      "Attribute": "ANZSIC",
      "TextValue": "000000"
    }
  ],
  "TariffRegions": [
    {
      "TariffRegionId": "TR_CKHK",
      "Networks": [
        {
          "Network": "CKHK",
          "DistributorPriceCategory": [ "RSU" ]
        }
      ]
    },
    {
      "TariffRegionId": "TR_CKHK_RLU",
      "Networks": [
        {
          "Network": "CKHK",
          "DistributorPriceCategory": [ "RLU" ]
        }
      ]
    }
  ],
  "TariffTypes": [
    {
      "TariffTypeId": "TT_dly_sup_chg",
      "Description": "Daily supply charge",
      "FixedVariable": "F",
      "Unit": "Day",
      "FlowDirection": "B"
    },
    {
      "TariffTypeId": "TT_any",
      "Description": "Anytime",
      "FixedVariable": "V",
      "Unit": "kWh",
      "FlowDirection": "X",
      "RCC-POA": [ [ "UN", 24 ] ]
    },
    {
      "TariffTypeId": "TT_aic",
      "Description": "All inclusive",
      "FixedVariable": "V",
      "Unit": "kWh",
      "FlowDirection": "X",
      "RCC-POA": [ [ "IN", 17 ] ]
    },
    {
      "TariffTypeId": "TT_ctl_hwt",
      "Description": "Controlled - hot water",
      "FixedVariable": "V",
      "Unit": "kWh",
      "FlowDirection": "X",
      "RCC-POA": [ [ "CN", 19 ] ]
    }
  ],
  "CustomerGroups": [
    {
      "CustomerGroup": "General domestic",
      "AttributeIds": [ "AT_anzsic_000000" ],
      "Plans": [
        {
          "Plan": "PRSU",

```



## Example 2

Simple seasonal example available to the entire Wellington (CKHK) region from 'A Simple Retailer Ltd'. (As per Appendix 2B, example 2)

```

{
  "FileType": "PRCSCHD",
  "Version": 1,
  "Sender": "ASRL",
  "SentOnBehalfOf": "ASRL",
  "Recipient": "ANY",
  "RunDate": "2016-05-23",
  "RunTime": "01:23:45",
  "Uniquifier": 12345,
  "RecordCount": 8,
  "FileStatus": "I",
  "Retailers":
  {
    {
      "TraderId": "ASRL",
      "RetailerId": "ASRL",
      "RetailerBrandName": "A Simple Retailer Ltd",
      "CustomerGroups":
      {
        {
          "CustomerGroup": "General-domestic",
          "Attributes":
          {
            {
              "Attribute": "ANZSIC",
              "TextValue": "0000000"
            }
          },
          "Plans":
          {
            {
              "Plan": "PRSU",
              "Description": "Residential – seasonal standard user",
              "LowFixedCharge": "N",
              "Networks":
              {
                {
                  "Network": "CKHK",
                  "DistributorPriceCategory": "RSU"
                }
              },
              "Tariffs":
              {
                {
                  "Tariff": "RSU-FIXD",
                  "Description": "Daily supply charge",
                  "FixedVariable": "F",
                  "Rate": 2.1560,
                  "Unit": "Day",
                  "FlowDirection": "B",
                  "RegisterContentCode": "Fixed"
                },
                {
                  "Tariff": "RSU-24UN",
                  "Description": "Anytime (summer)",
                  "FixedVariable": "V",
                  "Rate": 0.1837,
                  "Unit": "kWh",
                  "FlowDirection": "X",
                  "RegisterContentCode": "UN",
                  "PeriodOfAvailability": 24,
                  "Schedules": [{"Month": "JAN-FEB-MAR-
APR-OCT-NOV-DEC"}]
                }
              }
            }
          }
        }
      }
    }
  }
}

```



```

"TraderId": "ASRL",
"RetailerId": "ASRL",
"RetailerBrandName": "Simple Retailer Ltd",
"Attributes": [
  {
    "AttributeId": "AT_anzsic_000000",
    "Attribute": "ANZSIC",
    "TextValue": "000000"
  }
],
"Schedules": [
  {
    "ScheduleId": "SC_summer",
    "DaylightSavings": 1,
    "Month": [ "JAN", "FEB", "MAR", "OCT", "NOV", "DEC" ]
  },{
    "ScheduleId": "SC_winter",
    "DaylightSavings": 1,
    "Month": [ "APR", "MAY", "JUN", "JUL", "AUG", "SEP" ]
  }
],
"TariffRegions": [
  {
    "TariffRegionId": "TR_CKHK",
    "Networks": [
      {
        "Network": "CKHK",
        "DistributorPriceCategory": [ "RSU" ]
      }
    ]
  },{
    "TariffRegionId": "TR_CKHK_RLU",
    "Networks": [
      {
        "Network": "CKHK",
        "DistributorPriceCategory": [ "RLU" ]
      }
    ]
  }
],
"TariffTypes": [
  {
    "TariffTypeId": "TT_dly_sup_chg",
    "Description": "Daily supply charge",
    "FixedVariable": "F",
    "Unit": "Day",
    "FlowDirection": "B"
  },{
    "TariffTypeId": "TT_any_sum",
    "Description": "Anytime (summer)",
    "FixedVariable": "V",
    "Unit": "kWh",
    "FlowDirection": "X",
    "ScheduleIds": [ "SC_summer" ],
    "RCC-POA": [ [ "UN", 24 ] ]
  },{
    "TariffTypeId": "TT_any_win",
    "Description": "Anytime (winter)",
    "FixedVariable": "V",
    "Unit": "kWh",
    "FlowDirection": "X",
    "ScheduleIds": [ "SC_winter" ],
    "RCC-POA": [ [ "UN", 24 ] ]
  },{
    "TariffTypeId": "TT_aic_sum",
    "Description": "All inclusive (summer)",
    "FixedVariable": "V",
    "Unit": "kWh",
    "FlowDirection": "X",
    "ScheduleIds": [ "SC_summer" ],
    "RCC-POA": [ [ "IN", 17 ] ]
  },{
    "TariffTypeId": "TT_aic_win",
    "Description": "All inclusive (winter)",
    "FixedVariable": "V",
    "Unit": "kWh",
    "FlowDirection": "X",
    "ScheduleIds": [ "SC_winter" ],
  }
]

```

```

    "RCC-POA": [ [ "IN", 17 ] ]
  },{
    "TariffTypeld": "TT_ctl_hwt_sum",
    "Description": "Controlled - hot water (summer)",
    "FixedVariable": "V",
    "Unit": "kWh",
    "FlowDirection": "X",
    "ScheduleIds": [ "SC_summer" ],
    "RCC-POA": [ [ "CN", 19 ] ]
  },{
    "TariffTypeld": "TT_ctl_hwt_win",
    "Description": "Controlled - hot water (winter)",
    "FixedVariable": "V",
    "Unit": "kWh",
    "FlowDirection": "X",
    "ScheduleIds": [ "SC_winter" ],
    "RCC-POA": [ [ "CN", 19 ] ]
  },{
    "TariffTypeld": "TT_dly_sup_chg_low_use",
    "Description": "Daily supply charge (low user)",
    "FixedVariable": "F",
    "Unit": "Day",
    "FlowDirection": "B"
  },{
    "TariffTypeld": "TT_any_low_use_sum",
    "Description": "Anytime (low user - summer)",
    "FixedVariable": "V",
    "Unit": "kWh",
    "FlowDirection": "X",
    "ScheduleIds": [ "SC_summer" ],
    "RCC-POA": [ [ "UN", 24 ] ]
  },{
    "TariffTypeld": "TT_any_low_use_win",
    "Description": "Anytime (low user - winter)",
    "FixedVariable": "V",
    "Unit": "kWh",
    "FlowDirection": "X",
    "ScheduleIds": [ "SC_winter" ],
    "RCC-POA": [ [ "UN", 24 ] ]
  },{
    "TariffTypeld": "TT_aic_low_use_sum",
    "Description": "All inclusive (low user - summer)",
    "FixedVariable": "V",
    "Unit": "kWh",
    "FlowDirection": "X",
    "ScheduleIds": [ "SC_summer" ],
    "RCC-POA": [ [ "IN", 17 ] ]
  },{
    "TariffTypeld": "TT_aic_low_use_win",
    "Description": "All inclusive (low user - winter)",
    "FixedVariable": "V",
    "Unit": "kWh",
    "FlowDirection": "X",
    "ScheduleIds": [ "SC_winter" ],
    "RCC-POA": [ [ "IN", 17 ] ]
  },{
    "TariffTypeld": "TT_ctl_hwt_low_use_sum",
    "Description": "Controlled - hot water (low user - summer)",
    "FixedVariable": "V",
    "Unit": "kWh",
    "FlowDirection": "X",
    "ScheduleIds": [ "SC_summer" ],
    "RCC-POA": [ [ "CN", 19 ] ]
  },{
    "TariffTypeld": "TT_ctl_hwt_low_use_win",
    "Description": "Controlled - hot water (low user - winter)",
    "FixedVariable": "V",
    "Unit": "kWh",
    "FlowDirection": "X",
    "ScheduleIds": [ "SC_winter" ],
    "RCC-POA": [ [ "CN", 19 ] ]
  }
],
"CustomerGroups": [
  {
    "CustomerGroup": "General domestic",
    "Attributelds": [ "AT_anzsic_000000" ],
    "Plans": [

```

```

{
  "Plan": "PRSU",
  "Description": "Residential - seasonal standard user",
  "LowFixedCharge": "N",
  "Tariffs": [
    {
      "Tariff": "RSU-FIXED",
      "Rate": 2.1560,
      "TariffRegion": "TR_CKHK",
      "TariffType": "TT_dly_sup_chg"
    },
    {
      "Tariff": "RSU-24UN-S",
      "Rate": 0.1837,
      "TariffRegion": "TR_CKHK",
      "TariffType": "TT_any_sum"
    },
    {
      "Tariff": "RSU-24UN-W",
      "Rate": 0.2037,
      "TariffRegion": "TR_CKHK",
      "TariffType": "TT_any_win"
    },
    {
      "Tariff": "RSU-AICO-S",
      "Rate": 0.1637,
      "TariffRegion": "TR_CKHK",
      "TariffType": "TT_aic_sum"
    },
    {
      "Tariff": "RSU-AICO-W",
      "Rate": 0.1837,
      "TariffRegion": "TR_CKHK",
      "TariffType": "TT_aic_win"
    },
    {
      "Tariff": "RSU-CTRL-S",
      "Rate": 0.1437,
      "TariffRegion": "TR_CKHK",
      "TariffType": "TT_ctl_hwt_sum"
    },
    {
      "Tariff": "RSU-CTRL-W",
      "Rate": 0.1637,
      "TariffRegion": "TR_CKHK",
      "TariffType": "TT_ctl_hwt_win"
    }
  ]
},
{
  "Plan": "PRLU",
  "Description": "Residential - seasonal low user",
  "LowFixedCharge": "Y",
  "Tariffs": [
    {
      "Tariff": "RLU-FIXED",
      "Rate": 0.3333,
      "TariffRegion": "TR_CKHK_RLU",
      "TariffType": "TT_dly_sup_chg_low_use"
    },
    {
      "Tariff": "RLU-24UN-S",
      "Rate": 0.2668,
      "TariffRegion": "TR_CKHK_RLU",
      "TariffType": "TT_any_low_use_sum"
    },
    {
      "Tariff": "RLU-24UN-W",
      "Rate": 0.2868,
      "TariffRegion": "TR_CKHK_RLU",
      "TariffType": "TT_any_low_use_win"
    },
    {
      "Tariff": "RLU-AICO-S",
      "Rate": 0.2468,
      "TariffRegion": "TR_CKHK_RLU",
      "TariffType": "TT_aic_low_use_sum"
    },
    {
      "Tariff": "RLU-AICO-W",
      "Rate": 0.2668,
      "TariffRegion": "TR_CKHK_RLU",
      "TariffType": "TT_aic_low_use_win"
    },
    {
      "Tariff": "RLU-CTRL-S",
      "Rate": 0.2268,
      "TariffRegion": "TR_CKHK_RLU",
      "TariffType": "TT_ctl_hwt_low_use_sum"
    }
  ]
},

```

```
"Tariff": "RLU-CTRL-W",  
"Rate": 0.2468,  
"TariffRegion": "TR_CKHK_RLU",  
"TariffType": "TT_ctl_hwt_low_use_win"  
}  
}  
}  
}  
}  
}
```

**Example 3**

An example available to a subset of the Wellington (CKHK) region from 'A Simple Retailer Ltd'. (As per aAppendix 2B, example 3)

- Two basic plans, (LFC and SFC both covering available distribution tariffs ie IN, CN, UN, Day/Night and EV) for domestic consumers. The rates come into effect 1 April 2016, and will not be offered to new customers after 30 June 2016. The plan offers a 10% discount for prompt payment, and a further 2% discount for a direct debit payment.
- They are further limited to a region (Three central city NSPs) and Distributor Price Categories, (separate sets for LFC and SFC as tends to be the case in Wellington)
- Schedules are provided for the EV tariffs

```

{
  "FileType": "PRCSCHD",
  "Version": 1,
  "Sender": "ASRL",
  "SentOnBehalfOf": "ASRL",
  "Recipient": "ANY",
  "RunDate": "2016-05-23",
  "RunTime": "01:23:45",
  "Uniquifier": 12345,
  "RecordCount": "14",
  "FileStatus": "I",

  "Retailers":
  {
    {
      "TraderId": "ASRL",
      "RetailerId": "ASRL",
      "RetailerBrandName": "A Simple Retailer Ltd",
      "CustomerGroups":
      {
        {
          "CustomerGroup": "General domestic",
          "Attributes":
          {
            {
              "Attribute": "ANZSIC",
              "TextValue": "0000000"
            },
            {
              "Attribute": "DISCOUNT_PROMPT_PAYMENT",
              "NumValue": 10,
              "TextValue": "%"
            },
            {
              "Attribute": "DISCOUNT_PAYMENT_RETAILER_INITIATED",
              "NumValue": 2,
              "TextValue": "%"
            }
          }
        }
      }
    }
  },
  "Plans":
  {
    {
      "Plan": "PRSU",
      "Description": "Residential - standard user",
      "StartDate": "2016-04-01",
      "CloseDate": "2016-06-30",
      "LowFixedCharge": "N",
      "Networks":
      {
        {
          "Network": "CKHK",
          "NSP": "WIL0331CKHK-CPK0331CKHK-CPK0111CKHK",
          "DistributorPriceCategory": "RSU",
          "DistributorLossCategory": "LCC1"
        }
      }
    }
  }
}

```



```

}
    "DaylightSavings" : 1,
    "StartTime" : "00:00",
    "EndTime" : "07:00",
}
}
}
};
{
    "Plan" : "PRLU",
    "Description" : "Residential - low user",
    "StartDate" : "2016-04-01",
    "CloseDate" : "2016-06-30",
    "LowFixedCharge" : "Y",
    "Networks" :
    {
        "Network" : "CKHK",
        "NSP" : "WIL0331CKHK-CPK0331CKHK-
CPK0111CKHK",
        "DistributorPriceCategory" : "RLU",
        "DistributorLossCategory" : "LCC1"
    };
    "Tariffs" :
    {
        "Tariff" : "RLU-FIXD",
        "Description" : "Daily supply charge",
        "FixedVariable" : "F",
        "Rate" : 0.3333,
        "Unit" : "Day",
        "FlowDirection" : "B",
        "RegisterContentCode" : "Fixed",
    };
        "Tariff" : "RLU-24UN",
        "Description" : "Anytime",
        "FixedVariable" : "V",
        "Rate" : 0.2768,
        "Unit" : "kWh",
        "FlowDirection" : "X",
        "RegisterContentCode" : "UN",
        "PeriodOfAvailability" : 24
    };
        "Tariff" : "RLU-AICO",
        "Description" : "All inclusive",
        "FixedVariable" : "V",
        "Rate" : 0.2568,
        "Unit" : "kWh",
        "FlowDirection" : "X",
        "RegisterContentCode" : "IN",
        "PeriodOfAvailability" : 24
    };
        "Tariff" : "RLU-CTRL",
        "Description" : "Controlled/Hot water",
        "FixedVariable" : "V",
        "Rate" : 0.2368,
        "Unit" : "kWh",
        "FlowDirection" : "X",
        "RegisterContentCode" : "CN",
        "PeriodOfAvailability" : 17
    };
        "Tariff" : "RLU-16D",
        "Description" : "Daytime",
        "FixedVariable" : "V",
        "Rate" : 0.2768,
        "Unit" : "kWh",
        "FlowDirection" : "X",
        "RegisterContentCode" : "D",
        "PeriodOfAvailability" : 16
    };
        "Tariff" : "RLU-NITE",

```



```

      "EndTime": "24:00"
    },{
      "ScheduleId": "SC_h00_07",
      "DaylightSavings": 1,
      "StartTime": "00:00",
      "EndTime": "07:00"
    }
  ],
  "TariffRegions": [
    {
      "TariffRegionId": "TR_CKHK",
      "Networks": [
        {
          "Network": "CKHK",
          "NSP": [ "CPK0111CKHK", "CPK0331CKHK", "WIL0331CKHK" ],
          "DistributorPriceCategory": [ "RSU" ],
          "DistributorLossCategory": [
            "LCC1"
          ]
        }
      ]
    }
  ],
  {
    "TariffRegionId": "TR_CKHK_RLU",
    "Networks": [
      {
        "Network": "CKHK",
        "NSP": [ "CPK0111CKHK", "CPK0331CKHK", "WIL0331CKHK" ],
        "DistributorPriceCategory": [ "RLU" ],
        "DistributorLossCategory": [
          "LCC1"
        ]
      }
    ]
  }
],
  "TariffTypes": [
    {
      "TariffTypeId": "TT_dly_sup_chg",
      "Description": "Daily supply charge",
      "FixedVariable": "F",
      "Unit": "Day",
      "FlowDirection": "B"
    },{
      "TariffTypeId": "TT_any",
      "Description": "Anytime",
      "FixedVariable": "V",
      "Unit": "kWh",
      "FlowDirection": "X",
      "RCC-POA": [ [ "UN", 24 ] ]
    },{
      "TariffTypeId": "TT_aic",
      "Description": "All inclusive",
      "FixedVariable": "V",
      "Unit": "kWh",
      "FlowDirection": "X",
      "RCC-POA": [ [ "IN", 17 ] ]
    },{
      "TariffTypeId": "TT_ctl_hwt",
      "Description": "Controlled - hot water",
      "FixedVariable": "V",
      "Unit": "kWh",
      "FlowDirection": "X",
      "RCC-POA": [ [ "CN", 19 ] ]
    },{
      "TariffTypeId": "TT_day",
      "Description": "Daytime",
      "FixedVariable": "V",
      "Unit": "kWh",
      "FlowDirection": "X",
      "RCC-POA": [ [ "D", 16 ] ]
    },{
      "TariffTypeId": "TT_ngt",
      "Description": "Night only",
      "FixedVariable": "V",
      "Unit": "kWh",
      "FlowDirection": "X",
      "RCC-POA": [ [ "N", 8 ] ]
    },{
  
```

```

    "TariffTypeld": "TT_ev_ngt",
    "Description": "Electric vehicle - night only",
    "FixedVariable": "V",
    "Unit": "kWh",
    "FlowDirection": "X",
    "Schedulelds": [ "SC_h21_24", "SC_h00_07" ],
    "RCC-POA": [ [ "UN", 10 ] ]
  }
],
"CustomerGroups": [
  {
    "CustomerGroup": "General domestic",
    "Attributelds": [ "AT_anzsic_000000", "AT_Disc_PP_10", "AT_Disc_PRI_2" ],
    "Plans": [
      {
        "Plan": "PRSU",
        "Description": "Residential - standard user",
        "StartDate": "2016-04-01",
        "CloseDate": "2016-06-30",
        "LowFixedCharge": "N",
        "Tariffs": [
          {
            "Tariff": "RSU-FIXED",
            "Rate": 2.1560,
            "TariffRegion": "TR_CKHK",
            "TariffType": "TT_dly_sup_chg"
          },
          {
            "Tariff": "RSU-24UN",
            "Rate": 0.1937,
            "TariffRegion": "TR_CKHK",
            "TariffType": "TT_any"
          },
          {
            "Tariff": "RSU-AICO",
            "Rate": 0.1737,
            "TariffRegion": "TR_CKHK",
            "TariffType": "TT_aic"
          },
          {
            "Tariff": "RSU-CTRL",
            "Rate": 0.1537,
            "TariffRegion": "TR_CKHK",
            "TariffType": "TT_ctl_hwt"
          },
          {
            "Tariff": "RSU-16D",
            "Rate": 0.1937,
            "TariffRegion": "TR_CKHK",
            "TariffType": "TT_day"
          },
          {
            "Tariff": "RSU-NITE",
            "Rate": 0.1337,
            "TariffRegion": "TR_CKHK",
            "TariffType": "TT_ngt"
          },
          {
            "Tariff": "RSU-EVNITE",
            "Rate": 0.1337,
            "TariffRegion": "TR_CKHK",
            "TariffType": "TT_ev_ngt"
          }
        ]
      }
    ]
  },
  {
    "Plan": "PRLU",
    "Description": "Residential - low user",
    "StartDate": "2016-04-01",
    "CloseDate": "2016-06-30",
    "LowFixedCharge": "Y",
    "Tariffs": [
      {
        "Tariff": "RLU-FIXED",
        "Rate": 0.3333,
        "TariffRegion": "TR_CKHK_RLU",
        "TariffType": "TT_dly_sup_chg"
      },
      {
        "Tariff": "RLU-24UN",
        "Rate": 0.2768,
        "TariffRegion": "TR_CKHK_RLU",
        "TariffType": "TT_any"
      },
      {
        "Tariff": "RLU-AICO",
        "Rate": 0.2568,

```

```
"TariffRegion": "TR_CKHK_RLU",
"TariffType": "TT_aic"
},{
"Tariff": "RLU-CTRL",
"Rate": 0.2368,
"TariffRegion": "TR_CKHK_RLU",
"TariffType": "TT_ctl_hwt"
},{
"Tariff": "RLU-16D",
"Rate": 0.2768,
"TariffRegion": "TR_CKHK_RLU",
"TariffType": "TT_day"
},{
"Tariff": "RLU-NITE",
"Rate": 0.2368,
"TariffRegion": "TR_CKHK_RLU",
"TariffType": "TT_ngt"
},{
"Tariff": "RLU-EVNITE",
"Rate": 0.2368,
"TariffRegion": "TR_CKHK_RLU",
"TariffType": "TT_ev_ngt"
}
]
}
]
}
]
}
]
}
```