**Decision Proposal 198 - Billing and Invoicing Payload**

**Summary**

As raised with the Commonwealth Treasury and DSB, we remain concerned with the proposed inclusion of large Commercial and Industrial (C&I) energy consumers in the CDR framework. The inclusion of large energy consumers in the framework needs to be considered in the context of size, current regulatory arrangements, the service offerings that are currently available to these consumers, and the cost effectiveness of integrating the complex pricing arrangements into the regime. There should be a clear mandate to ensure that the costs to create complex systems to include C&I consumers does not exceed the benefits to this group of consumers.

The energy sector is still awaiting confirmation from the Commonwealth Treasury as to the size or nature of a consumer who will be considered “eligible” under the CDR framework. We understand that a decision on this issue will be included in the Energy Rules for CDR when they are finalized.

Given the regulatory uncertainty with regards to the size of an energy consumer for CDR, we have reviewed and provided comments on the APIs for Billing and Invoicing Payloads from a C&I consumer perspective. The individual fields within the APIs have been specifically assessed to identify 1) the intent of providing that data to the consumer and 2) how this data field aligns with a data source within our systems. Where these fields are not found to be suitable, recommendations have been made to remove or modify these fields. We have also proposed new fields that we believe will be needed within the APIs to provide the customer with a close representation to how their account has been setup.

Given the substantive number of proposed amendments to this payload to potentially cover C&I consumers, we suggest the DSB that consideration needs to be given to a separate billing & invoicing payload for C&I consumers.

At a high level, the following changes have been proposed for C&I consumers if a decision is made to include these consumers. Further feedback (at a field level) has been provided in the subsequent sections.

**Billing & Invoicing Payload**

* The transaction type or charge type categories across all 3 APIs (ie Billing, Invoicing and Accounts) will need to be expanded to cater to the various unbundled categories represented on an Invoice. The proposed list of categories is “usage”, “generation”, “onceOffCharge”, “onceOffDiscount”, “environmentalCharge”, “regulatedCharge”, “networkCharge”, “meteringCharge”, “retailServiceCharge”, “RCTICharge”, and “otherCharge”;
* Elements within the transaction categories will need to be updated to represent the various units of billing applicable for a category. For example, c/kWh, $/kWh, $/kVA, $/day, $/meter/day etc. These should be represented in separate fields to be able to distinguish between the “units” and the “unit of billing” applicable;
* Some transactions have additional calculation factors involved such as Loss Factors, Environmental Certificate Percentage etc. that are displayed on the customer’s bill but are not in the Billing & Invoicing End Points. These calculation factors contribute to the total amount for a given transaction. An object to represent these calculations should be added;
* GST portion applicable for a transaction should be denoted in a new field, the existing “amount” field will be GST exclusive;
* We propose that the “otherCharge” category be utilized to represent backdated adjustments and additional charges or credits (such as interest, credit card fee, etc.) as opposed to a catch all field for transactions pertaining to a C&I consumer;
* We also propose to remove the “adjustments” array under “usage” as our adjustments tend to be backdated and can take place for many reasons such as environmental rate update, network tariff update, revised consumption, energy rate update etc. which may not necessarily be usage related;
* Account summaries or consolidated statements should be out of scope as the structure of these statements are different to a site-level invoice. We will be able to provide individual site level invoices for all the child accounts and recommend that the ADRs create a summary view as needed for the customer using the raw data;
* For more information, please see our C&I bill explainer for sample transactions that could appear under different categories - <https://www.originenergy.com.au/business/commercial-and-industrial/market-events-charges/understanding-your-bill/>
* Should the customer’s greenhouse emission for the bill period be included in the payload?
* In terms of the bulk invoice requests, this will lead to huge datasets being retrieved especially for large customers with multiple sites (over 100) – can there be a limit imposed on the number of accounts?
* For a detailed list of fields proposed to be modified, added, and removed, please refer to the APIs on the following page.
* Generic comment on the use of ‘accountID fields in most of these billing and invoicing payloads For example -Get/energy/accounts/balances and Post/energy/accounts/balances , response payload refers – ‘account Id’ where description ‘The ID of the account ‘. Is this same accountId being obtained from account payload - ‘ This is a tokenized ID previously obtained from another account end point.’. If yes, can the description be updated to keep the fields and description uniform and represent the tokenized ID and the accountID term often used by retailers to represent the contract/customer/plan etc.

**DP 198 – Candidate Billing & Invoicing End Points**

= proposed amendment

= proposed new field

Origin has provided feedback on this payload from a residential and small business basis. Many of the comments for these customers have been addressed, however we have come across several minor additional changes that could apply to the mass market consumer base.

Invoice Common Type –

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Mandatory** | **Description** | **Origin Comment/Feedback** |
| { |  |  |  |  |
| accountId | String | Mandatory | The ID of the account for which the invoice was issued |  |
| invoiceNumber | String | Mandatory | The number assigned to this invoice by the energy Retailer |  |
| issueDate | DateString | Mandatory | The date that the invoice was actually issued (as opposed to generated or calculated) |  |
| dueDate | DateString | Optional | The date that the invoice is due to be paid |  |
| period | Object | Optional | Object containing the start and end date for the period covered by the invoice | Field should be made optional to cater for non- energy/ sundry invoices. This feedback is for both C&I and residential or small business customer accounts.  Also, flexibility if the invoice covers 2 accounts and different period for both. |
| { |  |  |  |  |
| startDate | DateString | Mandatory | The start date of the period covered by this invoice |  |
| endDate | DateString | Mandatory | The end date of the period covered by this invoice |  |
| } |  |  |  |  |
| invoiceAmount | AmountString | Optional | The net amount due for this invoice regardless of previous balance |  |
| payOnTimeDiscount | Object | Optional | A discount for on time payment |  |
| { |  |  |  |  |
| amount | AmountString | Mandatory | The amount that will be discounted if the invoice is paid by the date specified |  |
| date | DateString | Mandatory | The date by which the invoice must be paid to receive the pay on time discount |  |
| } |  |  |  |  |
| balanceAtIssue | AmountString | Mandatory | The account balance at the time the invoice was issued, including the current bill amount and adjustments on the account |  |
| servicePoints | Array of Strings | Mandatory | Array of service point IDs to which this invoice applies |  |
| gas | Object | Mandatory | Object containing charges and credits related to gas usage |  |
| { |  |  |  |  |
| totalUsageCharges | AmountString | Mandatory | The aggregate total of usage charges for the period covered by the invoice |  |
| totalOnceOffCharges | AmountString | Mandatory | The aggregate total of any once off charges arising from gas usage for the period covered by the invoice |  |
| totalOnceOffDiscounts | AmountString | Mandatory | The aggregate total of any once off discounts or credits arising from gas usage for the period covered by the invoice |  |
| } |  |  |  |  |
| electricity | Object | Mandatory | Object contain charges and credits related to energy usage |  |
| { |  |  |  |  |
| totalUsageCharges | AmountString | Mandatory | The aggregate total of usage charges for the period covered by the invoice |  |
| totalGenerationCredits | AmountString | Mandatory | The aggregate total of generation credits for the period covered by the invoice |  |
| totalOnceOffCharges | AmountString | Mandatory | The aggregate total of any once off charges arising from electricity usage for the period covered by the invoice |  |
| totalOnceOffDiscounts | AmountString | Mandatory | The aggregate total of any once off discounts or credits arising from electricity usage for the period covered by the invoice |  |
| totalEnvironmentalCharges | AmountString | Optional | The aggregate total of environmental charges for the period covered by the invoice (applicable to C&I consumers only) | New field added |
| totalRegulatedCharges | AmountString | Optional | The aggregate total of AEMO Market Regulatory charges for the period covered by the invoice (applicable to C&I consumers only) | New field added |
| totalNetworkCharges | AmountString | Optional | The aggregate total of network charges for the period covered by the invoice (applicable to C&I consumers only) | New field added |
| totalMeteringCharges | AmountString | Optional | The aggregate total of metering charges for the period covered by the invoice (applicable to C&I consumers only) | New field added |
| totalRetailServiceCharges | AmountString | Optional | The aggregate total of any service charges arising for the period covered by the invoice (applicable to C&I consumers only) such as Management Fee, Surrender Fee, Service Fee, etc. | New field added |
| totalRCTICharges | AmountString | Optional | The aggregate total of any RCTI transactions arising for the period covered by the invoice (applicable to C&I consumers only) | New field added |
| totalOtherCharges | Array of Objects | Optional | Optional array of charges that may be part of the invoice ~~(for e.g. environmental charges for C&I consumers)~~ covering additional charges, credits and backdated adjustments made for C&I consumers | Description updated in red |
| [{ |  |  |  |  |
| totalAmount | AmountString | Mandatory | The aggregate total of charges other than usage and once off charges |  |
| description | String | Mandatory | A free text description of the type of charge |  |
| }] |  |  |  |  |
| } |  |  |  |  |
| totalAccountCharges | AmountString | Mandatory | The aggregate total of account level charges for the period covered by the invoice |  |
| totalAccountDiscounts | AmountString | Mandatory | The aggregate total of account level discounts or credits for the period covered by the invoice |  |
| paymentStatus | Enum | Mandatory | Indicator of the payment status for the invoice. Must be one of PAID, PARTIALLY\_PAID, NOT\_PAID |  |
| } |  |  |  |  |

Billing Common Type

| **Field** | **Type** | **Mandatory** | **Description** | **Origin Comment** |
| --- | --- | --- | --- | --- |
| { |  |  |  |  |
| accountId | String | Mandatory | The ID of the account for which transaction applies |  |
| executionDateTime | DateTimeString | Mandatory | The date and time that the transaction occurred |  |
| transactionUType | Enum | Mandatory | Indicator of the type of transaction object present in this record. May be one of "usage", "generation", "onceOffCharge", "onceOffDiscount", "environmentalCharge", "regulatedCharge", "networkCharge", "meteringCharge", "retailServiceCharge", "RCTICharge", "otherCharge", "payment" |  |
| Usage | Object | Conditional | Represents a usage charge. Mandatory if transactionUType is equal to usage |  |
| { |  |  |  |  |
| servicePointId | String | Optional | The ID of the service point to which this transaction applies |  |
| invoiceNumber | String | Optional | The number of the invoice in which this transaction is included if it has been issued |  |
| timeOfUseType | Enum | Optional | The time of use type that the transaction applies to. Must be one of PEAK, OFF\_PEAK, OFF\_PEAK\_DC, SHOULDER, SHOULDER1, SHOULDER2 | This field should be made optional as some C&I usage charges do not have a time band associated with the charges. For example, charges could be based on total consumption, a percentage of total consumption or another calculation method. There needs to be flexibility to be able to support these charges. |
| description | String | Optional | Description of the transaction, as it appears on the invoice | New field added |
| isEstimate | Boolean | Optional | Flag indicating if the usage is estimated or actual. True indicates estimate. False or absent indicates actual |  |
| startDate | DateTimeString | Mandatory | Date and time when the usage period starts |  |
| endDate | DateTimeString | Mandatory | Date and time when the usage period ends |  |
| ~~Usage~~ | ~~Number~~ | ~~Mandatory~~ | ~~The usage for the period in kwh~~ | It is recommenced that this field be removed. Usage should be represented in terms of quantity and unit of measure. New fields are recommended below. |
| quantity | Number | Mandatory | Units applicable for the period - for usage, this would be the consumption. For other charges, this could be number of days, number of meters etc. | New field to display the unit measure applicable (consumption for usage, number of days and for other non-usage based charges) |
| quantity unit | String | Mandatory | The unit of measure for the quantity specified. For example, kwh, days, meter etc. | New field to display the unit of measure that is applicable to the usage / quantity for the transaction. For example KWh, kVA, days, meter or another quantity measure. |
| rate | AmountString | Mandatory | Rate applicable | New field to display the energy rate applicable to the transaction. |
| rate unit | String | Mandatory | The unit of measure of the rate (for e.g., c/kwh, $/kwh etc.) | New field to display the unit of measure of the energy rate applicable to the transaction. |
| ~~adjustments~~ | ~~Array of Objects~~ | ~~Optional~~ | ~~Optional array of adjustments arising for this transaction~~ | Object removed as adjustments for C&I customers are represented as a reversal transaction – they are amended transactions and are generally backdated. The recommendation is to utilise "otherCharges" to represent these transactions. |
| ~~[{~~ |  |  |  |
| ~~amount~~ | ~~AmountString~~ | ~~Mandatory~~ | ~~The amount of the adjustment~~ |
| ~~description~~ | ~~String~~ | ~~Mandatory~~ | ~~A free text description of the adjustment~~ |
| ~~}]~~ |  |  |  |
| calculation | Array of Objects | Optional | Represents any additional calculation factors that form part of the total amount (for e.g. loss factors) | New object to include any additional calculation factors. |
| [{ |  |  |  |  |
| value | Number | Mandatory | Actual value used in the calculation | New field to display the value of any further calculation |
| type | String | Mandatory | Description of the value i.e DLF, MLF etc. | New field to describe the calculation component |
| }] |  |  |  |  |
| amount | AmountString | Mandatory | The amount charged for this transaction prior to any adjustments being applied | Amount (ex. GST) = usage \* rate \* calculation value |
| gst | AmountString | Mandatory | The applicable GST for the transaction | New field to display the GST portion of the transaction |
| } |  |  |  |  |
| generation | Object | Conditional | Represents a generation credit. Mandatory if transactionUType is equal to generation | New object to display details of a generation credit for solar feed in tariff. |
| { |  |  |  |
| servicePointId | String | Optional | The ID of the service point to which this transaction applies |
| invoiceNumer | String | Optional | The number of the invoice in which this transaction is included if it has been issued |
| startDate | DateTimeString | Mandatory | Date and time when the usage period starts |
| endDate | DateTimeString | Mandatory | Date and time when the usage period ends |
| quantity | Number | Mandatory | The usage for the period |
| quantity unit | String | Mandatory | The unit of measure of the usage (for e.g. kwh, kva etc) |
| rate | AmountString | Mandatory | Rate applicable |
| rate unit | String | Mandatory | The unit of measure of the rate (for e.g. c/kwh, $/kwh etc) |
| amount | AmountString | Mandatory | The amount credited for this transaction prior to any adjustments being applied |
| gst | AmountString | Mandatory | The applicable GST for the transaction |
| } |  |  |  |
| onceOffCharge | Object | Conditional | Represents a once off charges. Mandatory if transactionUType is equal to onceOffCharge | This field should be renamed from “onceOff” to “onceOffCharge” Ensures alignment with the Invoicing payload |
| { |  |  |  |  |
| servicePointId | String | Optional | The ID of the service point to which this transaction applies |  |
| invoiceNumber | String | Optional | The number of the invoice in which this transaction is included if it has been issued |  |
| amount | AmountString | Mandatory | The amount of the charge |  |
| gst | AmountString | Mandatory | The applicable GST for the transaction |  |
| description | String | Mandatory | A free text description of the transaction |  |
| } |  |  |  |  |
| onceOffDiscount | Object | Conditional | Represents a once off discount. Mandatory if transactionUType is equal to onceOffDiscount | New fields to display once off discounts. Ensures alignment with the Invoicing payload |
| { |  |  |  |
| servicePointId | String | Optional | The ID of the service point to which this transaction applies |
| invoiceNumber | String | Optional | The number of the invoice in which this transaction is included if it has been issued |
| amount |  | Mandatory | The amount of credit |
| gst |  | Mandatory | The applicable GST for the transaction |
| description |  | Mandatory | A free text description of the transaction |
| } |  |  |  |
| environmentalCharge | Object | Conditional | Represents an environmental charge. Mandatory if transactionUType is equal to environmentalCharge | New fields to display details of environmental charges. For example LREC, SREC, ESC charges |
| { |  |  |  |
| servicePointId | String | Optional | The ID of the service point to which this transaction applies |
| invoiceNumer | String | Optional | The number of the invoice in which this transaction is included if it has been issued |
| startDate | DateTimeString | Mandatory | Date and time when the usage period starts |
| endDate | DateTimeString | Mandatory | Date and time when the usage period ends |
| quantity | Number | Mandatory | The usage for the period |
| quantity unit | String | Mandatory | The unit of measure of the usage (for e.g., KWh, KVa etc) |
| rate | AmountString | Mandatory | Rate applicable |
| rate unit | String | Mandatory | The unit of measure of the rate (for e.g., c/kwh, $/kwh etc) |
| calculation | Array of Objects | Optional | Represents any additional calculation factors that form part of the total amount (for e.g., loss factors) |
| [{ |  |  |  |
| value | Number | Mandatory | Actual value used in the calculation |
| type | String | Mandatory | Description of the value i.e. DLF, MLF, published % etc. |
| }] |  |  |  |
| amount | AmountString | Mandatory | The amount charged for this transaction prior to any adjustments being applied |
| gst | AmountString | Mandatory | The applicable GST for the transaction |
| description | String | Optional | Description of the transaction, as it appears on the invoice |
| } |  |  |  |
| regulatedCharge | Object | Conditional | Represents a pass through AEMO market regulatory charge. Mandatory if transactionUType is equal to regulatedCharge | New fields to display details of regulated charge. For e.g., AEMO FRC Operations, Participant Charge etc. |
| { |  |  |  |
| servicePointId | String | Optional | The ID of the service point to which this transaction applies |
| invoiceNumer | String | Optional | The number of the invoice in which this transaction is included if it has been issued |
| startDate | DateTimeString | Mandatory | Date and time when the usage period starts |
| endDate | DateTimeString | Mandatory | Date and time when the usage period ends |
| quantity | Number | Mandatory | The usage for the period |
| quantity unit | String | Mandatory | The unit of measure of the usage (for e.g., kwh, kva etc.) |
| rate | AmountString | Mandatory | Rate applicable |
| rate unit | String | Mandatory | The unit of measure of the rate (for e.g., c/kwh, $/kwh etc.) |
| calculation | Array of Objects | Optional | Represents any additional calculation factors that form part of the total amount (for e.g., loss factors) |
| [{ |  |  |  |
| value | Number | Mandatory | Actual value used in the calculation |
| type | String | Mandatory | Description of the value i.e., DLF, MLF, published % etc. |
| }] |  |  |  |
| amount | AmountString | Mandatory | The amount charged for this transaction prior to any adjustments being applied |
| gst | AmountString | Mandatory | The applicable GST for the transaction |
| description | String | Optional | Description of the transaction, as it appears on the invoice |
| } |  |  |  |
| networkCharge | Object | Conditional | Represents a pass-through Network charge. Mandatory if transactionUType is equal to networkCharge | New fields to display details of a network charge. For e.g., Network Demand, Volume, Fixed etc. |
| { |  |  |  |
| servicePointId | String | Optional | The ID of the service point to which this transaction applies |
| invoiceNumer | String | Optional | The number of the invoice in which this transaction is included if it has been issued |
| startDate | DateTimeString | Mandatory | Date and time when the usage period starts |
| endDate | DateTimeString | Mandatory | Date and time when the usage period ends |
| quantity | Number | Mandatory | The usage for the period |
| quantity unit | String | Mandatory | The unit of measure of the usage (for e.g., kwh, kva etc) |
| rate | AmountString | Mandatory | Rate applicable |
| rate unit | String | Mandatory | The unit of measure of the rate (for e.g., c/kwh, $/kwh etc) |
| calculation | Array of Objects | Optional | Represents any additional calculation factors that form part of the total amount (for e.g., loss factors) |
| [{ |  |  |  |
| value | Number | Mandatory | Actual value used in the calculation |
| type | String | Mandatory | Description of the value i.e DLF, MLF, published % etc. |
| }] |  |  |  |
| amount | AmountString | Mandatory | The amount charged for this transaction prior to any adjustments being applied |
| gst | AmountString | Mandatory | The applicable GST for the transaction |
| description | String | Optional | Description of the transaction, as it appears on the invoice |
| } |  |  |  |
| meteringCharge | Object | Conditional | Represents a metering charge. Mandatory if transactionUType is equal to meteringCharge | New fields to display details of a metering charge. For example, Metering Charge, Supplementary Metering Charge etc. |
| { |  |  |  |
| servicePointId | String | Optional | The ID of the service point to which this transaction applies |
| invoiceNumer | String | Optional | The number of the invoice in which this transaction is included if it has been issued |
| startDate | DateTimeString | Mandatory | Date and time when the usage period starts |
| endDate | DateTimeString | Mandatory | Date and time when the usage period ends |
| quantity | Number | Mandatory | The usage for the period |
| quantity unit | String | Mandatory | The unit of measure of the usage (for e.g., kwh, kva etc) |
| rate | AmountString | Mandatory | Rate applicable |
| rate unit | String | Mandatory | The unit of measure of the rate (for e.g., c/kwh, $/kwh etc) |
| calculation | Array of Objects | Optional | Represents any additional calculation factors that form part of the total amount (for e.g., loss factors) |
| [{ |  |  |  |
| value | Number | Mandatory | Actual value used in the calculation |
| type | String | Mandatory | Description of the value i.e DLF, MLF, published % etc. |
| }] |  |  |  |
| amount | AmountString | Mandatory | The amount charged for this transaction prior to any adjustments being applied |
| gst | AmountString | Mandatory | The applicable GST for the transaction |
| description | String | Optional | Description of the transaction, as it appears on the invoice |
| } |  |  |  |
| retailServiceCharge | Object | Conditional | Represents a retail service charge. Mandatory if transactionUType is equal to retailServiceCharge | New fields to display any applicable retail service charges. For example, Service Charge, Management Fee, etc. |
| { |  |  |  |
| servicePointId | String | Optional | The ID of the service point to which this transaction applies |
| invoiceNumer | String | Optional | The number of the invoice in which this transaction is included if it has been issued |
| startDate | DateTimeString | Mandatory | Date and time when the usage period starts |
| endDate | DateTimeString | Mandatory | Date and time when the usage period ends |
| quantity | Number | Mandatory | The usage for the period |
| quantity unit | String | Mandatory | The unit of measure of the usage (for e.g., kwh, kva etc.) |
| rate | AmountString | Mandatory | Rate applicable |
| rate unit | String | Mandatory | The unit of measure of the rate (for e.g., c/kwh, $/kwh etc.) |
| calculation | Array of Objects | Optional | Represents any additional calculation factors that form part of the total amount (for e.g., loss factors) |
| [{ |  |  |  |
| value | Number | Mandatory | Actual value used in the calculation |
| type | String | Mandatory | Description of the value i.e. DLF, MLF, published % etc. |
| }] |  |  |  |
| amount | AmountString | Mandatory | The amount charged for this transaction prior to any adjustments being applied |
| gst | AmountString | Mandatory | The applicable GST for the transaction |
| description | String | Optional | Description of the transaction, as it appears on the invoice |
| } |  |  |  |
| RCTICharge | Object | Conditional | Represents an RCTI (Recipient Created Tax Invoice) charge. Mandatory if transactionUType is equal to RCTICharge | New fields to display any transactions that appear within the RCTI section of the invoice. An RCTI transaction refers to charges that are created on behalf of the customer. They do not appear as a credit transaction on the invoice, but they are deducted from the customer's total amount owed. |
| { |  |  |  |
| servicePointId | String | Optional | The ID of the service point to which this transaction applies |
| invoiceNumer | String | Optional | The number of the invoice in which this transaction is included if it has been issued |
| startDate | DateTimeString | Mandatory | Date and time when the usage period starts |
| endDate | DateTimeString | Mandatory | Date and time when the usage period ends |
| quantity | Number | Mandatory | The usage for the period |
| quantity unit | String | Mandatory | The unit of measure of the usage (for e.g., kwh, kva etc.) |
| rate | AmountString | Mandatory | Rate applicable |
| rate unit | String | Mandatory | The unit of measure of the rate (for e.g., c/kwh, $/kwh etc.) |
| calculation | Array of Objects | Optional | Represents any additional calculation factors that form part of the total amount (for e.g., loss factors) |
| [{ |  |  |  |
| value | Number | Mandatory | Actual value used in the calculation |
| type | String | Mandatory | Description of the value i.e. DLF, MLF, published % etc. |
| }] |  |  |  |
| amount | AmountString | Mandatory | The amount charged for this transaction prior to any adjustments being applied |
| gst | AmountString | Mandatory | The applicable GST for the transaction |
| description | String | Optional | Description of the transaction, as it appears on the invoice |
| } |  |  |  |
| otherCharge | Object | Conditional | Represents any additional charge, credits or adjustments applicable. ~~other than usage and once off.~~ Mandatory if transactionUType is equal to otherCharge  Represents any additional charges, credits or adjustments applicable. Mandatory if transactionUType is equal to otherCharge | Description updated in red. |
| { |  |  |  |  |
| servicePointId | String | Optional | The ID of the service point to which this transaction applies |  |
| invoiceNumber | String | Optional | The number of the invoice in which this transaction is included if it has been issued |  |
| startDate | DateTimeString | Mandatory | Date and time when the usage period starts |  |
| endDate | DateTimeString | Mandatory | Date and time when the usage period ends |  |
| quantity | Number | Mandatory | The usage for the period |  |
| quantity unit | String | Mandatory | The unit of measure of the usage (for e.g., kwh, kva etc.) |  |
| rate | AmountString | Mandatory | Rate applicable |  |
| rate unit | String | Mandatory | The unit of measure of the rate (for e.g., c/kwh, $/kwh etc.) |  |
| calculation | Array of Objects | Optional | Represents any additional calculation factors that form part of the total amount (for e.g., loss factors) |  |
| [{ |  |  |  |  |
| value | Number | Mandatory | Actual value used in the calculation |  |
| type | String | Mandatory | Description of the value i.e DLF, MLF, published % etc. |  |
| }] |  |  |  |  |
| amount | AmountString | Mandatory | The amount charged for this transaction prior to any adjustments being applied |  |
| gst | AmountString | Mandatory | The applicable GST for the transaction |  |
| description | String | Mandatory | Description of the transaction, as it appears on the invoice |  |
| reason | String | Optional | Free text field to populate the adjustment reason. This would include a reference to the original invoice number and the charge period. For example, “Adj – 123456 – 01 Mar 2021 to 31 Mar 2021” | New field added |
| } |  |  |  |  |
| payment | Object | Conditional | Represents a payment to the account. Mandatory if transactionUType is equal to payment |  |
| { |  |  |  |  |
| amount | AmountString | Mandatory | The amount paid |  |
| method | enum | Mandatory | The method of payment. Must be one of DIRECT\_DEBIT, CARD, TRANSFER, BPAY, CASH, CHEQUE, OTHER |  |
| } |  |  |  |  |
| } |  |  |  |  |