

# Data Standards Body

Technical Working Group

Decision Proposal 197 - Candidate Account End Points

- Energy Australia feedback 22 October 2021

## Account List

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### High Level Information

<b>Title</b>	Obtain the list of energy accounts available under the authorised consent	<b>EA - Mass Market segment overall EA comments</b>
<b>HTTP Method</b>	GET	<ul style="list-style-type: none"><li>- Since this is the AccountList API is the customer name the input to this API?</li><li>- How do we ensure that we are returning the correct list of accounts based on customer name (e.g., same name but different persons)?</li><li>- Are we supposed to limit this to active accounts only or provide a full historical list of accounts for a given customer across multiple service addresses?</li><li>- A new account object is created when a customer moves from one service address to another.</li><li>- Also, a customer with multiple properties will have a separate account for each property. Based on the structure of the response schema – there’s an assumption that each retailer will create just one unique account created per customer.</li></ul>
<b>URI</b>	/energy/accounts	
<b>Security Scope</b>	energy:accounts.basic:read	
<b>Pagination</b>	Not Supported	
<b>Path Parameters</b>	None	
<b>Query Parameters</b>	None	

Request Payload Not applicable

## Response Payloads

HTTP Response Code: 200 OK

Field	Type	Mandatory	Description	EA - Mass Market segment comments	EA - C&I segment comments
accountId	String	Mandatory	The ID of the account. To be created in accordance with CDR ID permanence requirements	No comment.	No comment.
accountNumber	String	Optional	Optional identifier of the account as defined by the data holder. This must be the value presented on physical statements (if it exists) and must not be used for the value of accountId	No comment	From EA perspective, for the purposes of providing a response, we will supply data at a site level.
displayName	String	Optional	An optional display name for the account if one exists or can be derived. The content of this field is at the discretion of the data holder	No comment	No comment.
creationDate	DateString	Mandatory	The date that the account was created or opened	No comment.	No comment.
plans	Array of Objects	Mandatory	The array of plans containing service points and associated plan details	No comment.	Not applicable for C&I. There is no such thing as a "plan" for C&I. This cannot be populated for C&I.
nickName	String	Optional	Optional display name for the plan provided by the customer to help differentiate multiple plans	Note: Not applicable – expected that won't be provided by EA.	Not applicable for C&I. There is no such thing as a "plan" for C&I as there typically is for mass market. This cannot be populated for C&I.

Field	Type	Mandatory	Description	Mass Market segment comments	C&I segment comments
servicePointIds	Array of Strings	Mandatory	An array of servicePointIds, representing NMIs, that this plan is linked to. If there are no service points allocated to this plan then an empty array would be expected	There is a 1-1 relationship between an account and a service point. Can only be 1 service point per account. We understand that this arrangement is accommodated for.	There is a 1-1 relationship between an account and a service point. Can only be 1 service point per account. We understand that this arrangement is accommodated for.
planOverview	Object	Mandatory		No comment.	Not applicable for C&I. There is no such thing as a "plan" for C&I. This cannot be populated for C&I.
displayName	String	Optional	The name of the plan if one exists	No comment.	Not applicable for C&I. There is no such thing as a "plan" for C&I. This cannot be populated for C&I.
startDate	DateString	Mandatory	The start date of the applicability of this plan	No comment.	No comment.
endDate	DateString	Optional	The end date of the applicability of this plan	No comment.	No comment.

## Detailed Account Data

### High Level Information

Title	Obtain detailed information for a specific energy account	C&I segment overall EA comments
HTTP Method	GET	<p>Overall comments:</p> <ol style="list-style-type: none"> <li>1. Controlled Load Charge - it is not a retail charge in C&amp;I. It is part of the network charges.</li> <li>2. Demand Charge - it is not a retail charge in C&amp;I. It is part of the network charges.</li> <li>3. Metering Charge – we believe should be moved under Contract Node.</li> <li>4. C&amp;I has more charges appearing on a bill for a customer, and these charges are not present in mass market. C&amp;I is unbundled and includes the following pass through charges:               <ol style="list-style-type: none"> <li>a. Market charges -&gt; pass-through charges from AEMO.</li> <li>b. Environmental Charges -&gt; pass-through charges from the Govt.</li> <li>c. Network Charges -&gt; pass-through charges from the network.</li> </ol> </li> </ol> <p>(Mass market bundles these charges under the electricity charge)</p> <p>If the response payload is only requesting to provide the retail charges (EA charges) then the rest of the charges should be ignored. Otherwise, more nodes will have to be added to the response payload. Currently these “pass-through” charges are not included in the below.</p>
URI	/energy/accounts/{accountId}	
Security Scope	energy:accounts.detail:read	

<b>Pagination</b>	Not Supported	
<b>Path Parameters</b>	<b>accountId</b> ID of a specific account to obtain data for. This is a tokenised ID previous obtained from the Account List end point.	
<b>Query Parameters</b>	None	

Request Payload Not applicable

## Response Payloads

*HTTP Response Code: 200 OK*

Field	Type	Mandatory	Description	Mass Market segment comments	C&I segment comments
accountId	String	Mandatory	The ID of the account. To be created in accordance with CDR ID permanence requirements	No comment.	No comment.
accountNumber	String	Optional	Optional identifier of the account as defined by the data holder. This must be the value presented on physical statements (if it exists) and must not be used for the value of accountId	No comment	From EA perspective, for the purposes of providing a response, we will supply data at a site level. Is this consistent and in line with the overall understanding?

displayName	String	Optional	An optional display name for the account if one exists or can be derived. The content of this field is at the discretion of the data holder	No comment	No comment.
creationDate	DateString	Mandatory	The date that the account was created or opened	No comment.	No comment.
plans	Array of Objects	Mandatory	The array of plans containing service points and associated plan details	No comment.	Not applicable for C&I. There is no such thing as a “plan” for C&I. This cannot be populated for C&I.
nickName	String	Optional	Optional display name for the plan provided by the customer to help differentiate multiple plans	Note: Not applicable – expected that won’t be provided by EA.	Not applicable for C&I. There is no such thing as a “plan” for C&I. This cannot be populated for C&I.

Field	Type	Mandatory	Description	Mass Market segment comments	C&I segment comments
servicePointIds	Array of Strings	Mandatory	An array of servicePointIds, representing NMIs, that this account is linked to	There is a 1-1 relationship between an account and a service point. Can only be 1 service point per account. We understand that this arrangement is accommodated for.	There is a 1-1 relationship between an account and a service point. Can only be 1 service point per account. We understand that this arrangement is accommodated for.
planOverview	Object	Mandatory		No comment.	Not applicable for C&I. There is no such thing as a "plan" for C&I. This cannot be populated for C&I.
displayName	String	Optional	The name of the plan if one exists	No comment.	Not applicable for C&I. There is no such thing as a "plan" for C&I. This cannot be populated for C&I.
startDate	DateString	Mandatory	The start date of the applicability of this plan	No comment.	No comment.
endDate	DateString	Optional	The end date of the applicability of this plan	No comment.	No comment.
planDetail	Object	Mandatory		No comment.	No comment.



fuelType	Enum	Mandatory	The fuel types covered by the plan. Must be one of: <ul style="list-style-type: none"> <li>• ELECTRICITY</li> <li>• GAS</li> <li>• DUAL</li> </ul>	No comment.	No comment.
isContingentPlan	Boolean	Optional	Flag that indicates that the plan is contingent on the customer taking up an alternate fuel plan from the same retailer (for instance, if the fuelType is ELECTRICITY then a GAS plan from the same retailer must be taken up). Has no meaning if the plan has a fuelType of DUAL. If absent the value is assumed to be false.	No comment.	Not relevant/applicable for C&I.
meteringCharges	Array of Objects	Optional	Charges for metering included in the plan	For Mass Market, metering charges are not currently applicable to some Retailers.	We believe this node should be moved – suggested to move under the contract node
displayName	String	Mandatory	Display name of the charge	For Mass Market, metering charges are not currently applicable to some Retailers.	No comment
description	String	Optional	Description of the charge	For Mass Market, metering charges are not currently applicable to some Retailers.	No comment
minimumValue	AmountString	Mandatory	Minimum value of the charge if the charge is a range or the absolute value of the charge if no range is specified	For Mass Market, metering charges are not currently applicable to some Retailers.	No comment

maximumValue	AmountString	Optional	The upper limit of the charge if the charge could occur in a range	For Mass Market, metering charges are not currently applicable to some Retailers.	Not applicable for EA
period	ExternalRef	Optional	The charges that occur on a schedule indicates the frequency. Formatted according to <a href="#">ISO 8601 Durations</a> (excludes recurrence syntax)	For Mass Market, metering charges are not currently applicable to some Retailers.	No comment

Field	Type	Mandatory	Description	Mass Market segment comments	C&I segment comments
gasContract	Object Note that the structure of this object is identical to: <i>electricityContract</i>	Conditional	The details of the terms for the supply of electricity under this plan. Is mandatory if fuelType is set to GAS or DUAL	No comment.	No comment.
electricityContract	Object	Conditional	The details of the terms for the supply of electricity under this plan. Is mandatory if fuelType is set to ELECTRICITY or DUAL	No comment	No comment.
additionalFeeInformation	String	Optional	Free text field containing additional information of the fees for this contract	We are unclear what type of fees is this attribute referring to? Would like an example e.g. Termination fees? Connection & disconnection fees?	We are unclear what type of fees is this attribute referring to? Would like an example e.g. Termination fees? Connection & disconnection fees?
pricingModel	Enum	Mandatory	The pricing model for the contract. Must be one of: <ul style="list-style-type: none"> <li>SINGLE_RATE</li> <li>SINGLE_RATE_CONT_LOAD</li> <li>TIME_OF_USE</li> <li>TIME_OF_USE_CONT_LOAD</li> <li>FLEXIBLE</li> <li>FLEXIBLE_CONT_LOAD</li> <li>QUOTA</li> </ul> Contracts for gas must use SINGLE_RATE	We are assuming that this is the Retail tariff pricing model.	We are assuming that this is the Retail tariff pricing model.  C&I uses other types of pricing e.g. spot price, progressive purchasing, which do not in any way fit these descriptions.  A completely new category for these types of pricing will need to be defined – for consistency.

timeZone	Enum	Conditional	Required if pricingModel is set to TIME_OF_USE. Defines the time zone to use for calculation of the time of use thresholds. Must be one of: <ul style="list-style-type: none"> <li>LOCAL</li> </ul> AEST	How will this attribute will be useful for a plan detail? We don't think its relevant data in this context.	No comment
isFixed	Boolean	Mandatory	Flag indicating whether prices are fixed or variable	Does this mean fixed as in the prices are guaranteed for a given period of time or the period of the contract?	Does this mean fixed as in the prices are guaranteed for a given period of time or the period of the contract?
controlledLoad	Object	Conditional	Required if pricing model is SINGLE_RATE_CONT_LOAD or TIME_OF_USE_CONT_LOAD	We believe this should be moved one level down and be included under the <b>TariffPeriod</b> node. ControlledLoad is part of the Retail tariff (the pricingModel attribute in the payload suggests the same – i.e. <i>Single_Rate_Cont_Load</i> , <i>Time_of_Use_Cont_Load</i> , <i>Flexible_Cont_Load</i> ). Single_rate and Time_of_Use are both inside the Tariff Period node, while Controlled Load sits outside, and we believe that is incorrect Note: This node is applicable if the account is on a plan/offer that includes Control Load.	Controlled Load is not part of the retail pricing for C&I. It is only reflected in the network charges. This data will not be provided by EA.
displayName	String	Mandatory	A display name for the controlled load tier	No comment.	Not applicable unless providing all network passthrough charges. See above comment
description	String	Optional	A description of the controlled load tier	No comment.	Not applicable as above

dailyCharge	AmountString	Mandatory	The daily supply charge (exclusive of GST) for this controlled load tier	This is not applicable for controlledLoad. Control load doesn't have a supply charge.  Customers pay supply charges irrespective if they have Control Load or not in the meter configuration – is there a separate general daily supply charge field (not linked to controlled load)?	Not applicable as above
period	ExternalRef	Mandatory	The period for which the controlled load rate applies. Formatted according to <a href="#">ISO 8601 Durations</a> (excludes recurrence syntax)	We're assuming this relates to the pricing schedule?	Not applicable as controlledLoad not applicable.
rates	Array Of Objects	Mandatory	Array of controlled load rates in order of usage volume	No comment.	Not applicable.

Field	Type	Mandatory	Description	Mass Market segment comments	C&I segment comments
unitPrice	AmountString	Mandatory	Unit price of usage per kWh (exclusive of GST)	No comment.	This will need a lot more review for C&I customers.  e.g. There is no unit price for a spot price customer. The unit price changes for some customers for different periods and may not be available up front depending on their contract
volume	Number	Optional	Volume in kWh that this rate applies to. Only applicable for 'stepped' rates where different rates apply for different volumes of usage in a period	No comment.	Not applicable.
discount	Array Of Objects	Optional	Optional list of discounts available for the contract. Should not include discounts arising from concessions or assistance. These should be included in the separate concessions end point.	No comment.	Not applicable to C&I. This will need a lot more review as discounts don't apply to C&I, rather prices are determined in a bespoke way and are set lower instead of being discounted. This block will not be provided by EA.
displayName	String	Mandatory	The display name of the discount	We are unclear what this refer to. We assume it's the discount code.	Not applicable to C&I. This will need a lot more review as discounts don't apply to C&I, rather prices are determined in a bespoke way and are set lower instead of being discounted.

description	String	Optional	The description of the discount	No comment.	Not applicable to C&I. This will need a lot more review as discounts don't apply to C&I, rather prices are determined in a bespoke way and are set lower instead of being discounted.
type	Enum	Mandatory	The type of the discount. Must be one of: <ul style="list-style-type: none"> <li>• CONDITIONAL</li> <li>• GUARANTEED</li> <li>• OTHER</li> </ul>	No comment.	Not applicable to C&I. This will need a lot more review as discounts don't apply to C&I, rather prices are determined in a bespoke way and are set lower instead of being discounted.
category	Enum	Conditional	The type of the discount. Mandatory if the discount type is CONDITIONAL. Must be one of: <ul style="list-style-type: none"> <li>• PAY_ON_TIME</li> <li>• DIRECT_DEBIT</li> <li>• GUARANTEED_DISCOUNT</li> </ul>	No comment.	Not applicable to C&I. This will need a lot more review as discounts don't apply to C&I, rather prices are determined in a bespoke way and are set lower instead of being discounted.
methodUType	Enum	Mandatory	The method of calculation of the discount. Must be one of: <ul style="list-style-type: none"> <li>• percentOfBill</li> <li>• percentOfUse</li> <li>• fixedAmount</li> <li>percentOverThreshold</li> </ul>	No comment.	Not applicable to C&I. This will need a lot more review as discounts don't apply to C&I, rather prices are determined in a bespoke way and are set lower instead of being discounted.
percentOfBill	Object	Conditional	Required if methodUType is percentOfBill	No comment.	Not applicable to C&I. This will need a lot more review as discounts don't apply to C&I, rather prices are determined in a bespoke way and are set lower instead of being discounted.

rate	RateString	Mandatory	The rate of the discount applied to the bill amount (some types of charges may be excluded from this discount based on plan terms)	No comment.	Not applicable to C&I. This will need a lot more review as discounts don't apply to C&I, rather prices are determined in a bespoke way and are set lower instead of being discounted.
percentOfUse	Object	Conditional	Required if methodUType is percentOfUse	No comment.	Not applicable to C&I. This will need a lot more review as discounts don't apply to C&I, rather prices are determined in a bespoke way and are set lower instead of being discounted.



Field	Type	Mandatory	Description	Mass Market segment comments	C&I segment comments
rate	RateString	Mandatory	The rate of the discount applied to the usageamount	No comment.	Not applicable to C&I. This will need a lot more review as discounts don't apply to C&I, rather prices are determined in a bespoke way and are set lower instead of being discounted.
fixedAmount	Object	Conditional	Required if methodUType is fixedAmount	No comment.	Not applicable to C&I. This will need a lot more review as discounts don't apply to C&I, rather prices are determined in a bespoke way and are set lower instead of being discounted.
amount	AmountString	Mandatory	The amount of the discount	No comment.	Not applicable to C&I. This will need a lot more review as discounts don't apply to C&I, rather prices are determined in a bespoke way and are set lower instead of being discounted.
percentOverThreshold	Object	Conditional	Required if methodUType is percentOverThreshold	No comment.	Not applicable to C&I. This will need a lot more review as discounts don't apply to C&I, rather prices are determined in a bespoke way and are set lower instead of being discounted.
rate	RateString	Mandatory	The rate of the discount over the usage amount	No comment.	Not applicable to C&I. This will need a lot more review as discounts don't apply to C&I,

					rather prices are determined in a bespoke way and are set lower instead of being discounted.
usageAmount	AmountString	Mandatory	The usage amount threshold above which the discount applies	No comment.	Not applicable to C&I. This will need a lot more review as discounts don't apply to C&I, rather prices are determined in a bespoke way and are set lower instead of being discounted.
intrinsicGreenPower	Object	Optional	Describes intrinsic green power for the plan. If present then the plan includes a percentage of green power in the base plan	No comment.	There is no intrinsic green power included in our rates. It is unbundled charged separately if charged at all. So would need it as a separate product with separate rates etc... It is a separate line item and is explicit not intrinsic  Therefore not applicable.
greenPercentage	RateString	Mandatory	Percentage of green power intrinsically included in the plan	No comment.	There is no intrinsic green power included in our rates. It is unbundled charged separately if charged at all. So would need it as a separate product with separate rates etc...  Therefore not applicable.
greenPowerCharges	Array Of Objects	Optional	Optional list of charges applicable to green power	No comment.	No comment.

displayName	String	Mandatory	The display name of the charge	No comment.	No comment.
description	String	Optional	The description of the charge	No comment.	No comment.
type	Enum	Mandatory	The type of charge. Must be one of: <ul style="list-style-type: none"> <li>FIXED_PER_DAY</li> <li>FIXED_PER_WEEK</li> <li>FIXED_PER_MONTH</li> <li>FIXED_PER_UNIT</li> <li>PERCENT_OF_USE</li> <li>PERCENT_OF_BILL</li> </ul>	No comment.	No comment.

Field	Type	Mandatory	Description	Mass Market segment comments	C&I segment comments
tiers	Array Of Object	Mandatory	Array of charge tiers based on the percentage of green power used for the period implied by the type. Array is in order of increasing percentage of green power	No comment.	No comment.
percentGreen	RateString	Mandatory	The upper percentage of green power used applicable for this tier	No comment.	No comment.
rate	RateString	Conditional	The rate of the charge if the type implies the application of a rate	No comment.	No comment.
amount	AmountString	Conditional	The amount of the charge if the type implies the application of a fixed amount	No comment.	No comment.

fee	Array Of Objects	Optional	An array of fees applicable to the plan	No comment.	No comment.
type	Enum	Mandatory	<p>The type of the fee. Must be one of:</p> <ul style="list-style-type: none"> <li>• EXIT</li> <li>• ESTABLISHMENT</li> <li>• LATE_PAYMENT</li> <li>• DISCONNECTION</li> <li>• DISCONNECT_MOVE_OUT</li> <li>• DISCONNECT_NON_PAY</li> <li>• RECONNECTION</li> <li>• CONNECTION</li> <li>• PAYMENT_PROCESSING</li> <li>• CC_PROCESSING</li> <li>• CHEQUE_DISHONOUR</li> <li>• DD_DISHONOUR</li> <li>• MEMBERSHIP</li> <li>• CONTRIBUTION</li> <li>• PAPER_BILL</li> <li>• OTHER</li> </ul>	No comment.	No comment.

Field	Type	Mandatory	Description	Mass Market segment comments	C&I segment comments
term	Enum	Mandatory	The term of the fee. Must be one of: <ul style="list-style-type: none"> <li>FIXED</li> <li>1_YEAR</li> <li>2_YEAR</li> <li>3_YEAR</li> <li>4_YEAR</li> <li>5_YEAR</li> <li>PERCENT_OF_BILL</li> <li>ANNUAL</li> <li>DAILY</li> <li>WEEKLY</li> <li>MONTHLY</li> <li>BIANNUAL</li> </ul>	No comment.	No comment.
amount	AmountString	Conditional	The fee amount. Required if term is not PERCENT_OF_BILL	No comment.	No comment.
rate	RateString	Conditional	The fee rate. Required if term is PERCENT_OF_BILL	No comment.	No comment.
description	String	Optional	A description of the fee	No comment.	No comment.
solarFeedInTariff	Array Of Objects	Optional	Array of feed in tariffs for solar power	No comment.	No comment.
type	Enum	Mandatory	The type of the tariff. Must be one of: <ul style="list-style-type: none"> <li>GOVERNMENT</li> <li>RETAILER</li> </ul>	No comment.	No comment.

amount	AmountString	Conditional	The tariff amount per kWh	No comment.	No comment.
description	String	Optional	A description of the tariff	No comment.	No comment.
tariffPeriod	Array Of Objects	Mandatory	Array of tariff periods	Will appear multiple times if the rates are seasonal or there are price changes within the period, otherwise just once.	Will appear multiple times if the rates are seasonal or there are price changes within the period, otherwise just once.
displayName	String	Mandatory	The name of the tariff period	We're unclear exactly what this relates to, in the context of the tariffPeriod. Can you provide an example of what constitutes display name for a tariff period?	We're unclear exactly what this relates to, in the context of the tariffPeriod. Can you provide an example of what constitutes display name for a tariff period?
startDate	String	Conditional	The start date of the tariff period in a calendar year. Required if there is more than one period. Formatted in mm-dd format	We think this should be mandatory rather than conditional	We think this should be mandatory rather than conditional
endDate	String	Conditional	The end date of the tariff period in a calendar year. Required if there is more than one period. Formatted in mm-dd format	No comment. We think end date is appropriate as conditional.	No comment. We think end date is appropriate as conditional.
dailySupplyCharges	AmountString	Mandatory	The amount of access charge for the tariff period, in cents per day exclusive of GST.	No comment.	No comment.

Field	Type	Mandatory	Description	Mass Market segment comments	C&I segment comments
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rateBlockUType	Enum	Mandatory	Specifies the type of rate applicable to this tariff period. Must be one of: <ul style="list-style-type: none"> <li>• singleRate</li> <li>• timeOfUseRates</li> <li>demandCharges</li> </ul>	No comment.	No comment.
singleRate	Object	Conditional	Object representing a single rate. Required if rateBlockUType is singleRate	No comment.	No comment.
displayName	String	Mandatory	Display name of the rate	We are not certain what will populate this , but should we interpret this as the name of the product?	We are not certain what will populate this , but should we interpret this as the name of the product?
description	String	Optional	Description of the rate	We are not certain what will populate this , but should we interpret this as the description as it appears on the bill.	We are not certain what will populate this , but should we interpret this as the description as it appears on the bill.
generalUnitPrice	AmountString	Conditional	The block rate (unit price) for any usage above the included fixed usage, in cents per kWh inclusive of GST. Only required if pricingModel field is 'QUOTA'	No comment.	This is not applicable. QUOTA not applied for C&I.
period	ExternalRef	Optional	Usage period for which the block rate applies. Formatted according to <a href="#">ISO 8601 Durations</a> (excludes recurrence syntax)	We don't understand how this is different from the start date and end date in tariff block?	We don't understand how this is different from the start date and end date in tariff block?
rates	Array Of Objects	Mandatory	Array of controlled load rates in order of usage volume	No comment.	No comment.
unitPrice	AmountString	Mandatory	Unit price of usage per kWh (exclusive of GST)	No comment.	No comment.

volume	Number	Optional	Volume in kWh that this rate applies to. Only applicable for 'stepped' rates where different rates apply for different volumes of usage in a period	No comment.	No comment.
timeOfUseRates	Array Of Objects	Conditional	Array of objects representing time of use rates. Required if rateBlockUType is timeOfUseRates	No comment.	No comment.
displayName	String	Mandatory	Display name of the rate	No comment.	No comment.
description	String	Optional	Description of the rate	No comment.	No comment.
type	Enum	Mandatory	The type of usage that the rate applies to. Must be one of: <ul style="list-style-type: none"> <li>• PEAK</li> <li>• OFF_PEAK</li> <li>• OFF_PEAK_DC</li> <li>• SHOULDER</li> <li>• SHOULDER1</li> <li>• SHOULDER2</li> </ul>	No comment.	No comment.

Field	Type	Mandatory	Description	Mass Market segment comments	C&I segment comments
rates	Array Of Objects	Mandatory	Array of controlled load rates in order of usage volume	No comment.	No comment.
unitPrice	AmountString	Mandatory	Unit price of usage per kWh (exclusive of GST)	No comment.	No comment.
volume	Number	Optional	Volume in kWh that this rate applies to. Only applicable for 'stepped' rates where different rates apply for different volumes of usage in a period	No comment.	No comment.



timeOfUse	Array Of Objects	Mandatory	Array of times of use	This is the time-set of the time-band	This is the time-set of the time-band.
days	Array Of Enum	Mandatory	<p>The days that the rate applies to. Note that BUSINESS_DAYS means work days excluding public holidays. Must be one of:</p> <ul style="list-style-type: none"> <li>• SUNDAY</li> <li>• MONDAY</li> <li>• TUESDAY</li> <li>• WEDNESDAY</li> <li>• THURSDAY</li> <li>• FRIDAY</li> <li>• SATURDAY</li> </ul> <p>BUSINESS_DAYS</p>	No comment.	No comment.
startTime	String	Mandatory	Start of the period in HHMM format using 24 hour clock format	No comment.	No comment.
endTime	String	Mandatory	End of the period in HHMM format using 24 hour clock format	No comment.	No comment.
demandCharges	Array Of Objects	Optional	Array of demand charges	<p>.</p> <p>We believe should be moved up one level, and sit at the same level with TimeOfUseRates and not inside it. There is no concept of demandCharges per time-band as the payload suggests. DemandCharges are stand alone product with its own rates and time of use ranges</p> <p>Applicable if the customer has Contracted Demand.</p>	demandCharges are not part of the retail pricing for C&I. It is only reflected in the network charges. This block will not be provided by EA.

displayName	String	Mandatory	Display name of the charge	No comment.	Not applicable
description	String	Optional	Description of the charge	No comment.	Not applicable
amount	AmountString	Conditional	The charge amount per kWh exclusive of GST	No comment.	Not applicable
startTime	String	Mandatory	Start of the period in HHMM format using 24 hour clock format	No comment.	Not applicable
endTime	String	Mandatory	End of the period in HHMM format using 24 hour clock format	No comment.	Not applicable

Field	Type	Mandatory	Description	Mass Market segment comments	C&I segment comments
days	Object	Optional	Optional object containing demand tariff by day of week	Applicable if peak demand is extracted for specific days only.	Not applicable
weekdays	Boolean	Mandatory	Indicates the demand tariff is applicable on weekdays	No comment.	Not applicable
saturday	Boolean	Mandatory	Indicates the demand tariff is applicable on Saturdays	No comment.	Not applicable
sunday	Boolean	Mandatory	Indicates the demand tariff is applicable on Sundays	No comment.	Not applicable
minDemand	AmounString	Optional	Minimum demand for this demand tariff. If absent then 0 is assumed.	No comment.	Not applicable

maxDemand	AmounString	Optional	Maximum demand for this demand tariff. If present, must be higher than the value of the minDemand field	No comment.	Not applicable
measurementPeriod	Enum	Optional	Application period for the demand tariff. Must be one of: <ul style="list-style-type: none"> <li>• DAY</li> <li>• MONTH</li> </ul> SEASON	We think this attribute is incorrect. Each distributor has a different methodology for calculating demand (I.e. month-to-month, 12 months rolling, ratcheting, etc.).  "Day, Month, Season" are not measurement periods.	Not applicable
chargePeriod	Enum	Optional	Change period for the demand tariff. Must be one of: <ul style="list-style-type: none"> <li>• DAY</li> <li>• MONTH</li> <li>• SEASON</li> </ul>	Charge period for demand is always monthly, aligned with distributor.	Not applicable
authorisedContacts	Array of Objects	Mandatory	An array of additional contacts that are authorised to act on this account	. List of additional account holders/customer contacts in our language	No comment.
firstName	String	Optional	For people with single names this field need not be present. The single name should be in the lastName field	No comment.	No comment.
<b>Field</b>	<b>Type</b>	<b>Mandatory</b>	<b>Description</b>	<b>Mass Market segment comments</b>	<b>C&amp;I segment comments</b>
lastName	String	Mandatory	For people with single names the single name should be in this field	No comment.	No comment.
middleNames	Array of Strings	Mandatory	Field is mandatory but array may be empty	No comment.	No comment.

prefix	String	Optional	Also known as title or salutation. The prefix to the name (e.g. Mr, Mrs, Ms, Miss, Sir, etc)	No comment.	No comment.
suffix	String	Optional	Used for a trailing suffix to the name (e.g. Jr)	No comment.	No comment.

## Agreed Payment Schedule Data

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### High Level Information

<b>Title</b>	Obtain the agreed payment schedule and details, if any, for a specific energy account
<b>HTTP Method</b>	GET
<b>URI</b>	/energy/accounts/{accountId}/payment-schedule
<b>Security Scope</b>	energy:accounts.paymentschedule:read
<b>Pagination</b>	Not Supported
<b>Path Parameters</b>	<b>accountId</b> ID of a specific account to obtain data for. This is a tokenised ID previous obtained from the Account List end point.

Query Parameters

None

Request Payload Not applicable

## Response Payloads

*HTTP Response Code: 200 OK*

Field	Type	Mandatory	Description	Mass Market segment comments	C&I segment comments
amount	String	Optional	Optional payment amount indicating that a constant payment amount is scheduled to be paid (used in bill smooting scenarios)	No comment.	Not Applicable.
paymentScheduleUType	Enum	Mandatory	The type of object present in this response. May be one of: <ul style="list-style-type: none"><li>• cardDebit</li><li>• directDebit</li><li>• manualPayment</li></ul>	No comment.	No comment.
cardDebit	Object	Conditional	Represents a regular credit card payment schedule. Mandatory if paymentScheduleUType is set to cardDebit	No comment.	No comment.

Field	Type	Mandatory	Description	Mass Market segment comments	C&I segment comments
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cardScheme	Enum	Mandatory	<p>The type of credit card held on file:</p> <ul style="list-style-type: none"> <li>• VISA</li> <li>• MASTERCARD</li> <li>• AMEX</li> <li>• DINERS</li> <li>• OTHER</li> <li>• UNKNOWN</li> </ul>	No comment.	No comment.
paymentFrequency	ExternalRef	Mandatory	<p>The frequency that payments will occur. Formatted according to <a href="#">ISO 8601 Durations</a> (excludes recurrence syntax)</p>	<p>We interpret this as</p> <ul style="list-style-type: none"> <li>- Either frequency of instalments in the payment plans,</li> <li>- Or the bill frequency when no payment plans are involved.</li> </ul> <p>Is this correct?</p>	<p>We interpret this as</p> <ul style="list-style-type: none"> <li>- Either frequency of instalments in the payment plans,</li> <li>- Or the bill frequency when no payment plans are involved.</li> </ul> <p>Is this correct?</p>
calculationType	Enum	Mandatory	<p>The mechanism by which the payment amount is calculated. Must be one of:</p> <ul style="list-style-type: none"> <li>• STATIC Indicates a consistent, static amount, per payment</li> <li>• BALANCE Indicates that the outstanding balance for the account is paid per period</li> <li>• CALCULATED Indicates that the payment amount is variable and calculated using a predefined algorithm</li> </ul>	<p>We think that “CALCULATED” is not applicable in Energy.</p>	<p>We think that “CALCULATED” is not applicable in Energy.</p>
directDebit	Object	Conditional	<p>Represents a regular direct debit from a specified bank account.</p> <p>Mandatory if paymentScheduleUType is set to directDebit</p>	No comment.	No comment.

isTokenised	String	Optional	Flag indicating that the account details are tokenised and cannot be shared. False if absent. If false then bsb and accountNumber should not be expected to be included	Always set to Yes. We cannot keep credit card or direct debit details.	Always set to Yes. We cannot keep credit card or direct debit details.
bsb	String	Optional	The unmasked BSB for the account to be debited. Is expected to be formatted as digits only with leading zeros included and no punctuation or spaces. Is required if isTokenised is absent or false	Will not be provided as the account is always tokenized.	Will not be provided as the account is always tokenized.
accountNumber	String	Optional	The unmasked account number for the account to be debited. Is expected to be formatted as digits only with leading zeros included and no punctuation or spaces. Is required if isTokenised is absent or false	Will not be provided as the account is always tokenized.	Will not be provided as the account is always tokenized.
paymentFrequency	ExternalRef	Mandatory	The frequency that payments will occur. Formatted according to <a href="#">ISO 8601 Durations</a> (excludes recurrence syntax)	We interpret this as - Either frequency of instalments in the payment plans, - Or the bill frequency when no payment plans are involved. Is this correct?	We interpret this as - Either frequency of instalments in the payment plans, - Or the bill frequency when no payment plans are involved. Is this correct?
<b>Field</b>	<b>Type</b>	<b>Mandatory</b>	<b>Description</b>	<b>Mass Market segment comments</b>	<b>C&amp;I segment comments</b>

calculationType	Enum	Mandatory	<p>The mechanism by which the payment amount is calculated. Must be one of:</p> <ul style="list-style-type: none"> <li>• <b>STATIC</b> Indicates a consistent, static amount, per payment</li> <li>• <b>BALANCE</b> Indicates that the outstanding balance for the account is paid per period</li> <li>• <b>CALCULATED</b> Indicates that the payment amount is variable and calculated using a predefined algorithm</li> </ul>	We think that "CALCULATED" is not applicable in Energy.	We think that "CALCULATED" is not applicable in Energy.
manualPayment	Object	Conditional	<p>Represents a manual payment schedule where the customer pays in response to a delivered statement.</p> <p>Mandatory if paymentScheduleUType is set to manualPayment</p>	No comment.	No comment.
billFrequency	ExternalRef	Mandatory	<p>The frequency with which a bill will be issued.</p> <p>Formatted according to <a href="#">ISO 8601 Durations</a> (excludes recurrence syntax)</p>	Always will be bill frequency. Manual payments cannot be used with payment plans.	Always will be bill frequency. Manual payments cannot be used with payment plans.



## Concession & Hardship Data

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### High Level Information

<b>Title</b>	Obtain the details of any concessions or hardship arrangements applied to a specific energy account
<b>HTTP Method</b>	GET
<b>URI</b>	/energy/accounts/{accountId}/concessions
<b>Security Scope</b>	energy:accounts.concessions:read
<b>Pagination</b>	Not Supported
<b>Path Parameters</b>	<b>accountId</b> ID of a specific account to obtain data for. This is a tokenised ID previous obtained from the Account List end point.
<b>Query Parameters</b>	None

Request Payload Not applicable

## Response Payloads

HTTP Response Code: 200 OK

Field	Type	Mandatory	Description	Mass Market segment comments	C&I segment comments
data	Object	Mandatory		Note: not all concessions fit the attributes described below (e.g: Service to Property Charge, Life Support, Electricity Transfer Fee Waiver).	Concessions are only applicable to C&I customers in QLD. We believe the only relevant concessions are "Electricity Rebate" & "Natural gas Rebate".
concessions	Array of Objects	Mandatory	Array may be empty if no concessions exist	No comment.	No comment.
displayName	String	Mandatory	The display name of the concession	No comment.	No comment
additionalInfo	String	Optional	Display text providing more information on the concession	We don't hold this additional information	We don't hold this additional information.
additionalInfoUri	URIStrng	Optional	Optional link to additional information regarding the concession	We don't hold this additional information	We don't hold this additional information.
startDate	DateString	Optional	Optional start date for the application of the concession	No comment.	No comment
endDate	DateString	Optional	Optional end date for the application of the concession	No comment.	No comment

Field	Type	Mandatory	Description	Mass Market segment comments	C&I segment comments
dailyDiscount	AmountString	Conditional	Daily discount value due to the concession. At least one dailyDiscount, monthlyDiscount, yearlyDiscount and percentageDiscount must be provided	Note: Almost all amount-based concessions are per year but then converted to a daily rate - calculated daily at a specific rate (\$/day)	Note: QLD rebate is an annual rebate paid daily to the concession holders.  Note: Almost amount-based concessions are per year but then converted to a daily rate - calculated daily at a specific rate (\$/day)
monthlyDiscount	AmountString	Conditional	Monthly discount value due to the concession. At least one dailyDiscount, monthlyDiscount, yearlyDiscount and percentageDiscount must be provided	Note: Almost all amount-based concessions are per year but then converted to a daily rate - calculated daily at a specific rate (\$/day)	Note: QLD rebate is an annual rebate paid daily to the concession holders.  Note: Almost amount-based concessions are per year but then converted to a daily rate - calculated daily at a specific rate (\$/day)
yearlyDiscount	AmountString	Conditional	Annual discount value due to the concession. At least one dailyDiscount, monthlyDiscount, yearlyDiscount and percentageDiscount must be provided	Note: Almost all amount-based concessions are per year but then converted to a daily rate - calculated daily at a specific rate (\$/day)	Note: QLD rebate is an annual rebate paid daily to the concession holders.  Note: Almost amount-based concessions are per year but then converted to a daily rate - calculated daily at a specific rate (\$/day)

percentageDiscount	RateString	Conditional	Percentage of each invoice to be discounted due to the concession. At least one dailyDiscount, monthlyDiscount, yearlyDiscount and percentageDiscount must be provided	No comment	Not applicable for QLD Rebate. It's a daily amount not a percentage.
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