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# **Overview**

Qander API

## **Version information**

*Version* : 1.0.0

## **URI scheme**

*Host*: apigee.qander.nl

BasePath:/v1

Schemes: HTTPS

### **Consumes**

. application/json

## **Produces**

. application/json

## **Paths**

#### **POST**

# /merchants/{merchantId}/calculators/capacity/calculations

# **Description**

Perform calculations to check how much can be borrowed.

#### **Parameters**

Туре	Name	Description	Schema	Default
Path	merchantId required	Merchant ID	string	"bob"
Body	<b>body</b> required		capacityCalculati onsInput	

### **Responses**

HTTP Code	Description	Schema
200	Successful response	capacityCalculati onsOutput
400	Error response	errorResponse

# **Security**

Туре	Name
apiKey	apiKey

### **Example HTTP request**

### **Request path**

"/merchants/string/calculators/capacity/calculations"

#### **Request body**

```
{ }
```

## **Example HTTP response**

### **Response 200**

```
{ }
```

#### **Response 400**

```
{
  "errorResponseId" : "string",
  "errors" : [ [ {
   "code" : "string",
    "message" : "string"
  } ] ]
}
```

# This is a summary!

```
GET /merchants/{merchantId}/calculators/services
```

# **Description**

Get a list of all calculator services for the merchant.

#### **Parameters**

Туре	Name	Description	Schema	Default
Path	merchantId required	Merchant ID	string	"bob"

### Responses

HTTP Code	Description	Schema
200	Successful response.	< string > array
400	Error response	errorResponse

## **Security**

Туре	Name
apiKey	аріКеу

### **Example HTTP request**

#### **Request path**

```
"/merchants/string/calculators/services"
```

### **Example HTTP response**

#### **Response 200**

```
"array"
```

#### **Response 400**

```
{
    "errorResponseId" : "string",
    "errors" : [ [ {
        "code" : "string",
        "message" : "string"
    } ] ]
}
```

#### **GET**

/merchants/{merchantId}/calculators/services/{serviceId}

# **Description**

Get the details of a calculator service.

#### **Parameters**

Туре	Name	Description	Schema	Default
Path	merchantId required	Merchant ID	string	"bob"
Path	serviceId required	Service ID	string	

## **Responses**

HTTP Code	Description	Schema
200	Successful response	serviceConfigurat ion
400	Error response	errorResponse

# **Security**

Туре	Name
apiKey	аріКеу

# **Example HTTP request**

### **Request path**

"/merchants/string/calculators/services/string"

# **Example HTTP response**

### **Response 200**

```
{
  "minAmount" : "object",
  "maxAmount" : "object",
  "initializationAmount" : "object",
  "amountGranularity" : "object",
  "possibleNrOfTerms" : [ 0 ]
}
```

#### **Response 400**

```
{
   "errorResponseId" : "string",
   "errors" : [ [ {
       "code" : "string",
       "message" : "string"
   } ] ]
}
```

#### **POST**

## /merchants/{merchantId}/calculators/services/{serviceId}/ca lculations

## **Description**

Performs calculations for a service. Only returns results for valid calculations. For example, it is possible that the amount is so high that the lower number of terms values would result in a monthly payment which is too high.

#### **Parameters**

Туре	Name	Description	Schema	Default
Path	merchantId required	Merchant ID	string	"bob"
Path	serviceId required	Service ID	string	
Body	<b>body</b> required		serviceCalculatio nsInput	

### **Responses**

HTTP Code	Description	Schema
200	Successful response	serviceCalculatio nsOutput
400	Error response	errorResponse

## **Security**

Туре	Name
аріКеу	аріКеу

# **Example HTTP request**

### **Request path**

```
"/merchants/string/calculators/services/string/calculations"
```

### **Request body**

```
"amount" : "object",
  "nrOfTermsToCalculate" : [ 0 ]
}
```

# **Example HTTP response**

### **Response 200**

```
{ }
```

### **Response 400**

```
{
 "errorResponseId" : "string",
  "errors" : [ [ {
   "code" : "string",
    "message" : "string"
 } ] ]
}
```

# **Definitions**

# capacityCalculationInput

Input for a single capacity calculation.

Name	Description	Schema
alimonyToPa y optional	Alimony paid per month. <b>Example</b> : "object"	object
alimonyToRe ceive optional	Alimony received per month. <b>Example</b> : "object"	object
grossIncome optional	Gross income per month as per salary slip. Cannot be used in combination with netIncome. <b>Example</b> : "object"	object
grossIncome Partner optional	Gross income per month partner as per salary slip. <b>Example</b> : "object"	object
livingTogeth er optional	Living alone or together with other. <b>Example</b> : true	boolean
netIncome optional	Net base income per month without travel expenses and other additions. Cannot be used in combination with grossIncome.  Example: "object"	object
netIncome13 thMonth optional	Net bonus (13th month). <b>Example</b> : true	boolean
netIncome13 thMonthPart ner optional	Net bonus (13th month) of partner. <b>Example</b> : true	boolean
netIncomePa rtner optional	Net income per month partner without travel expenses and other additions. <b>Example</b> : "object"	object
nrOfChildren optional	Number of children under 18 living at home. <b>Example</b> : 0	integer

Name	Description	Schema
otherExpendi tures optional	Other monthly expenses. <b>Example</b> : "object"	object
rentMortgag e optional	Amount paid in rent or mortgage per month (gross). <b>Example</b> : "object"	object

# capacityCalculationOutput

Output for a single capacity calculation.

Name	Description	Schema
maxAllowedL oanAmount optional	Maximum amount that the customer can borrow. <b>Example</b> : "object"	object
netIncome optional	Calculated net income per month. <b>Example</b> : "object"	object
principalNor m optional	basisnorm <b>Example</b> : "object"	object
standardOfLi ving optional	levensstandaard <b>Example</b> : "object"	object

# **capacityCalculationsInput**

Type : < capacityCalculationInput > array

# capacityCalculationsOutput

*Type*: < capacityCalculationOutput > array

#### error

Name	Description	Schema
<b>code</b> optional	An error code. This code will not change and can be used to base UI logic on. <b>Example</b> : "string"	string

Name	Description	Schema
message optional	A description of the error. May contain information which can be useful for troubleshooting. This message is not intended to be displayed to the end user. <b>Example</b> : "string"	string

# errorResponse

# Error response

Name	Description	Schema
errorRespons eId optional	An unique error ID which can be used by Qander to locate related error information. <b>Example</b> : "string"	string
errors optional	A list of errors <b>Example</b> : [ "array" ]	<< error > array > array

# moneyAmount

Name	Description	Schema
amountInSm allestUnit optional	The amount represented in the smallest unit. For example, a amountInSmallestUnit of 1250 and a currencyCode of EUR represent 1250 eurocents or 12 euro. And a amountInSmallestUnit of 1250 and a currencyCode of JPY represent 1250 Japanese yen. <b>Example</b> : 0	integer
currencyCod e optional	A ISO 4217 currency code consisting of three characters. <b>Example</b> : "string"	string

# percentage

Name	Description	Schema
decimals optional	The number of decimals in the percentage value. <b>Example</b> : 0	integer

Name	Description	Schema
<b>value</b> optional	The percentage value. This includes the decimals. For example, if the value is 1201 and decimals is 2 then this object represents 12.01%. This number is exposed as a whole number because that is easier for calculations and custom formatting rules.  Example: 0	integer

# ${\bf service Calculation Output}$

Name	Description	Schema
annualPerce ntRate optional	APR (interest per year). <b>Example</b> : "object"	object
loanAmount optional	Loan amount that the calculation was based on. <b>Example</b> : "object"	object
monthlyPay mentAmount optional	Amount to be paid per month. <b>Example</b> : "object"	object
monthlyPerc entRate optional	MPR (interest per month). <b>Example</b> : "object"	object
nrOfTerms optional	The number of terms used as input for the calculation. This value can be used to correlate the result with the input. totalTerms is the actual calculated number of terms and might differ slightly from nrOfTerms. <b>Example</b> : 0	integer
serviceId optional	Example: "string"	string
totalAmount optional	todo <b>Example</b> : "object"	object
totalCreditFe e optional	Total amount of interest and administration cost to be paid by the customer. <b>Example</b> : "object"	object
totalLoanCos t optional	Total amount to be paid by the customer made up of principal (loan) amount, administration cost and interest. <b>Example</b> : "object"	object

Name	Description	Schema
totalTerms optional	Number of installments (in months) to repay the loan. <b>Example</b> : 0	integer
yearlyCostPe rcentage optional	Total cost expressed as a yearly percentage of the total credit amount. This indicator allows customers to compare offers. <b>Example</b> : "object"	object

# serviceCalculationOutputOrError

Contains the result of the calculation or an error, never both.

Name	Description	Schema
calculationEr ror optional	The reason why the calculation failed. <b>Example</b> : "object"	object
calculationRe sult optional	The result of the calculation. <b>Example</b> : "object"	object
nrOfTerms optional	Example : 0	integer

# serviceCalculationsInput

Name	Description	Schema
amount optional	The loan amount. <b>Example</b> : "object"	object
nrOfTermsTo Calculate optional	The number of terms to perform calculations for. If this value is left empty a calculation will be performed for all possible terms for this service. <b>Example</b> : [ 0 ]	< integer > array

# serviceCalculationsOutput

The results of the calculations. The order of the calculation results will correspond to the order of the nrOfTermsToCalculate input, so if the first nrOfTerms of the input was 24 the first calculation result will be for 24 terms. If no nrOfTermsToCalculate input was provided the calculation results will be ordered by nrOfTerms descending.

Type : < serviceCalculationOutputOrError > array

# serviceConfiguration

Name	Description	Schema
amountGran ularity optional	The advised granularity for the loan amount to use for sliders etc. This value is not enforced. <b>Example</b> : "object"	object
initialization Amount optional	The advised initialization amount for sliders etc. <b>Example</b> : "object"	object
maxAmount optional	Maximum loan amount. <b>Example</b> : "object"	object
minAmount optional	Minimum loan amount. <b>Example</b> : "object"	object
possibleNrOf Terms optional	The number of terms values which can be used for this service. Note that not all number of terms values can be used in combination with all values. <b>Example</b> : [ 0 ]	< integer > array

# **Security**

# apiKey

*Type*: apiKey

*Name*: Authorization

*In*: HEADER