



Sisow REST API

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1. REST

The REST methods can be called through the following URL:
[https://www.sisow.nl/Sisow/iDeal/RestHandler.ashx/...](https://www.sisow.nl/Sisow/iDeal/RestHandler.ashx/)

The dots at the end should be replaced with a REST method. The following REST methods are available:

1. DirectoryRequest: retrieve a list of available iDEAL banks (only for iDEAL payment option);
2. TransactionRequest: retrieve the URL to start a transaction;
3. StatusRequest: retrieve the status of a transaction;
4. RefundRequest: return an iDEAL transaction, complete or partially;
5. CancelReservation: cancel a Sisow ecare reservation;
6. InvoiceRequest: create a Sisow ecare invoice;
7. CreditInvoiceRequest: create a Sisow ecare credit note;

The REST methods will be explained in the following chapters.

An ErrorResponse will be returned when an error occurs after a request.

The examples in this document use the following values for the merchantid and merchantkey:

merchantid=2537987391

merchantkey=28f31a03f4d272bb5d6dd6a345cce93b670e2f79

2. DirectoryRequest

The DirectoryRequest method can be used to retrieve all available iDEAL banks. Examples of valid requests:

<https://www.sisow.nl/Sisow/iDeal/RestHandler.ashx/DirectoryRequest>

or:

<https://www.sisow.nl/Sisow/iDeal/RestHandler.ashx/DirectoryRequest?test=true>

The first example returns the following output:

```
<?xml version="1.0" encoding="UTF-8"?>
<directoryresponse xmlns="https://www.sisow.nl/Sisow/REST" version="1.0.0">
  <directory>
    <issuer>
      <issuerid>01</issuerid>
      <issuername>ABN Amro Bank</issuername>
    </issuer>
    <issuer>
      <issuerid>02</issuerid>
      <issuername>ASN Bank</issuername>
    </issuer>
    <issuer>
      <issuerid>05</issuerid>
      <issuername>ING</issuername>
    </issuer>
    <issuer>
      <issuerid>06</issuerid>
      <issuername>Rabobank</issuername>
    </issuer>
    <issuer>
      <issuerid>07</issuerid>
      <issuername>SNS Bank</issuername>
    </issuer>
    <issuer>
      <issuerid>08</issuerid>
      <issuername>RegioBank</issuername>
    </issuer>
  </directory>
</directoryresponse>
```

```
<issuer>
  <issuerid>09</issuerid>
  <issuername>Triodos Bank</issuername>
</issuer>
<issuer>
  <issuerid>10</issuerid>
  <issuername>Van Lanschot Bankiers</issuername>
</issuer>
<issuer>
  <issuerid>11</issuerid>
  <issuername>Knab</issuername>
</issuer>
<issuer>
  <issuerid>12</issuerid>
  <issuername>bunq</issuername>
</issuer>
</directory>
</directoryresponse>
```

The second example contains the query string “?test=true” and this request returns the following output:

```
<?xml version="1.0" encoding="UTF-8"?>
<directoryresponse xmlns="https://www.sisow.nl/Sisow/REST" version="1.0.0">
  <directory>
    <issuer>
      <issuerid>99</issuerid>
      <issuername>Sisow Bank (test)</issuername>
    </issuer>
  </directory>
</directoryresponse>
```

In this example a bank is retrieved which can be used in the simulation environment.

3. TransactionRequest

The TransactionRequest method can be used to start a transaction. Based on the chosen payment method, some parameters are required and some are optional. These parameters will be mentioned in this chapter.

The TransactionRequest can be called using a GET or POST request. You can access the TransactionRequest by using the URL below.

<https://www.sisow.nl/Sisow/iDeal/RestHandler.ashx/TransactionRequest>

General parameters

The parameters below are available for every payment method.

<i>Parameter</i>	<i>Description</i>	<i>Required</i>
merchantid	The connection ID, which can be found in your Sisow profile.	Yes
shopid	If multiple webshops have been added to the Sisow account, a distinction can be made based on this parameter.	No
payment	The payment method option (initially empty so by default iDEAL will be selected). See enclosure 1 for the possible values.	No
purchaseid	the payment reference with a maximum of 16 characters.	Yes
entrancecode (optional)	The entrancecode will also be returned in the returnurl for internal control purposes with a maximum of 40 characters, strict alphanumerical (only characters and numbers are allowed; [A-Za-z0-9]). If not supplied, the purchaseid will be used (if possible because spaces are allowed for the purchaseid but not for the entrancecode)	No
amount	the amount in cents.	Yes
description	A description of the purchase with a maximum of 32 characters.	Yes
testmode	If supplied with a value of "true" then test/simulation transactions can be performed. This requires the option "Testen met behulp van simulator (toestaan)" to be activated in the Sisow account at 'Mijn Profiel – page Geavanceerd'	No
returnurl	The URL to which is returned after a "normal" transaction process.	Yes
cancelurl	The URL to which is returned after the transaction is cancelled. If not supplied then the returnurl is used	No
notifyurl	This URL is used to report the status of a transaction. See chapter "URL's" for more information.	No
callbackurl	This URL is used to report the status of a transaction. See chapter "URL's" for more information.	No
sha1	The calculated SHA1 value of the following parameters, these should be stuck together as a long string. You can then calculate the SHA1 value. purchaseid/entrancecode/amount/shopid/merchantid/merchantkey If the entrance code is not used, the purchaseid must be included twice. purchaseid/purchaseid/amount/shopid/merchantid/merchantkey If the shopid is not used, you can leave it out of the calculation.	Yes

Remaining parameters

The remaining parameters are optional or required for a specific payment method. Down below this table, you can find an overview of these parameters.

You can also choose to send all available parameters to Sisow at all times, our gateway then only uses the parameters required for the specified payment method.

<i>Parameter</i>	<i>Description</i>
issuerid	ID of the selected iDEAL bank, see DirectoryRequest.
splitpayment	Extra merchants can be added here which need to receive a part of the transaction. This can be done in the following way "merchantid; amount". The amount that remains is paid out to the Merchant ID in the TransactionRequest.
customer	The customer code.
currency	The currency of the payment (Default is 'EUR').
ipaddress	IP address of the customer.
bic	BIC of the customer.
iban	IBAN of the customer.
gender	Gender of the customer 'm' is male 'f' is female.
birthdate	Date of birth of the customer(ddmmyyyy)
including	Include an iDEAL payment link in the e-mail regarding the transfer to the customer ("true"/"false").
locale	The language of the payment page.
days	The amount of days the bank transfer is valid.
billing_firstname	Billing address – First name
billing_lastname	Billing address – Last name
billing_mail	Billing address – E-mail address
billing_company	Billing address – Company name
billing_coc	Chamber of Commerce number of the company
billing_address1	Billing address – First address line
billing_address2	Billing address – Second address line
billing_zip	Billing address – ZIP-code
billing_city	Billing address – City
billing_country	Billing address – Country
billing_countrycode	Billing address – Country ISO code (default is 'NL')
billing_phone	Billing address – Telephone number
shipping_firstname	Shipping address – First name
shipping_lastname	Shipping address – Last name
shipping_mail	Shipping address – E-mail address
shipping_company	Shipping address – Company name
shipping_address1	Shipping address – First address line
shipping_address2	Shipping address – Second address line
shipping_zip	Shipping address – ZIP-code
shipping_city	Shipping address – City
shipping_country	Shipping address – Country
shipping_countrycode	Shipping address – Country ISO code (default is 'NL')
shipping_phone	Shipping address – Telephone number

For Sisow ecare the product details can be sent with the following GET/POST parameters:

<i>Parameter</i>	<i>Description</i>
product_id_x	Product code
product_description_x	Product description
product_quantity_x	Number of products
product_netprice_x	Net price in cents
product_total_x	Total amount in cents including VAT
product_nettotal_x	Total amount in cents excluding VAT
product_tax_x	VAT amount in cents
product_taxrate_x	VAT percentage (19% should be supplied as 1900)

Replace the 'x' in the product parameters with an incremental numbered value, starting at 1. This value corresponds to the position of the parameter on the invoice.

The following product_id_x's can be used to indicate the shipping costs and any payment fee.

- shipping, the shipping costs
- paymentfee, the payment fee

Parameters for iDEAL QR

Parameter	Description
qrcode	Transaction request is iDEAL QR ("true"/"false")
qrone	QR-code can only be used once ("true"/"false")
qrvalid	QR-code expire date (yyyymmdd)
qrchange	The amount can be changed ("true"/"false")
qrmin	Minimum amount for the transaction in cents
qrmax	Maximum amount for the transaction in cents
qrcodeimage	Receive URL to the QR-code instead of the Sisow payment screen.

Below you can find which parameters are required and optional for the payment methods.

iDEAL

Optional:

- issuerid

PayPal/Creditcard

Optional:

- locale

Giropay/EPS

Required:

- bic (check the appendix 'Giropay / EPS' on how to retrieve the available BIC codes)

Overboeking/Ebill:

Required:

- billing_mail

Optional:

- billing_firstname
- billing_lastname
- days
- including
- countrycode (for determining the language of the e-mail)

iDEAL QR

Required:

- qrcode

Optional:

- qrone
- qrvalid
- qrchange
- qrmin
- qrmax
- qrcodeimage

Afterpay

Required:

- ipaddress
- gender



- birthdate
- all the billing/shipping/product parameters
-

Optional:

- billing_coc, required with a B2B transaction.
- billing_company

Focum

Required:

- ipaddress
- iban
- gender
- birthdate
- all billing/shipping/product parameters (excluding billing_coc)

Billink

Required:

- ipaddress
- gender
- birthdate
- all billing/shipping/product parameter

Optional:

- billing_coc, required with a B2B transaction.
- billing_company

Klarna

Required:

- ipaddress
- gender
- birthdate
- All billing/shipping/product parameters (excluding billing_coc).

Capayable

Required:

- ipaddress
- gender
- birthdate
- All billing/shipping/product parameters.

Optional:

- billing_coc, required with a B2B transaction.
- billing_company

Response

You will find different responses, there are three different outcomes.

General

```
<?xml version="1.0" encoding="UTF-8"?>
<transactionresponse xmlns="https://www.sisow.nl/Sisow/REST" version="1.0.0">
  <transaction>
    <issuerurl>IssuerURL</issuerurl>
    <trxid>TransactionID</trxid>
  </transaction>
  <signature>
    <sha1>trxid + IssuerURL + merchantid + merchantkey</sha1>
  </signature>
</transactionresponse>
```

Note: If iDEAL is chosen without issuerid, no trxid will be returned!

The returned sha1 can be used to validate the authenticity of the XML message. Once it has been validated, the IssuerUrl can be decorated, after which a redirect can take place to the IssuerURL.

Afterpay/Billink/Focum/Klarna

```
<?xml version="1.0" encoding="UTF-8"?>
<transactionresponse xmlns="https://www.sisow.nl/Sisow/REST" version="1.0.0">
  <transaction>
    <issuerurl>IssuerURL</issuerurl>
    <trxid>TransactionID</trxid>
    <invceno>InvoiceNo</invceno>
    <documentid>DocumentId</documentid>
    <documenturl>DocumentURL</documenturl>
  </transaction>
  <signature>
    <sha1>
      TransactionID + InvoiceNo + DocumentId + merchantid + merchantkey
    </sha1>
  </signature>
</transactionresponse>
```

The returned sha1 can be used to validate the authenticity of the XML message. Once validated, you can redirect the customer directly to the thank you page as the transaction is "completed".

Banktransfer/Ebill

```
<?xml version="1.0" encoding="UTF-8"?>
<transactionresponse xmlns="https://www.sisow.nl/Sisow/REST" version="1.0.0">
  <transaction>
    <issuerurl>IssuerURL</issuerurl>
    <trxid>TransactionID</trxid>
    <documentid>DocumentId</documentid>
    <documenturl>DocumentURL</documenturl>
  </transaction>
  <signature>
    <sha1>SHA1 trxid + documentid + merchantid + merchantkey</sha1>
  </signature>
</transactionresponse>
```

The returned sha1 can be used to validate the authenticity of the XML message. Once validated, you can redirect the customer directly to the thank you page as the transaction is "completed".

Example

Request

URL: <https://www.sisow.nl/Sisow/iDeal/RestHandler.ashx/TransactionRequest>

POST:

merchantid=2537987391&purchaseid=123&amount=100&description=test%20betaling&returnurl=https%3A%2F%2Fsisow.nl&cancelurl=https%3A%2F%2Fsisow.nl¬ifyurl=https%3A%2F%2Fsisow.nl&callbackurl=https%3A%2F%2Fsisow.nl&issuerid=12&sha1=4bdf789f7800496d9b5883eecd7eca2bae73cd02

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<transactionrequest xmlns="https://www.sisow.nl/Sisow/REST" version="1.0.0">
  <transaction>
    <issuerurl>
      https%3a%2f%2fideal.bunq.com%2f%3fauthorisationId%3d647366083227%26transactionId%3d0050002676740002
    </issuerurl>
    <trxid>
      0050002676740002
    </trxid>
  </transaction>
  <signature>
    <sha1>
      4b693b5202629b60c715010916aaee255beddddde
    </sha1>
  </signature>
</transactionrequest>
```

SHA1 validation

Calculate the SHA1 of the string below:

0050002676740002https%3a%2f%2fideal.bunq.com%2f%3fauthorisationId%3d647366083227%26transactionId%3d0050002676740002253798739128f31a03f4d272bb5d6dd6a345cce93b670e2f79

This should be the same as the sha1 included in the XML message (4b693b5202629b60c715010916aaee255beddddde). If this is the case, you can redirect the customer to the IssuerUrl.

If it concerns an ebill/banktransfer/focum/klarna/afterpay/billink transaction, you can directly redirect to the success page of the website/webshop.

4. StatusRequest

The StatusRequest method can be used to retrieve the status of a transaction. Besides the status, all other relevant data regarding the transaction will be returned.

The StatusRequest can be accessed via a GET or POST request. This can be accessed via the URL below:

<https://www.sisow.nl/Sisow/iDeal/RestHandler.ashx/StatusRequest>

Parameters

Parameter	Description	Required
trxid	The Transaction ID	Yes
merchantid	The connection ID, which can be found in your Sisow profile.	Yes
shopid	If several webshops have been added tot he Sisow account, a distinction can be made based on this parameter. (required if supplied with TransactionRequest)	Conditional
sha1	The calculated SHA1 value of trxid/shopid/merchantid/merchantkey If shopid is not used. You can leave it out of the calculated SHA1 value.	Yes

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<statusresponse xmlns="https://www.sisow.nl/Sisow/REST" version="1.0.0">
  <transaction>
    <trxid>TransactionID</trxid>
    <status>Status</status>
    <amount>Amount</amount>
    <purchaseid>PurchaseID</purchaseid>
    <description>Description</description>
    <entrancecode>EntranceCode</entrancecode>
    <issuerid>IssuerID</issuerid>
    <timestamp>TimeStamp</timestamp>
    <consumername>Consumer Name</consumername>
    <consumeraccount>Consumer Account</consumeraccount>
    <consumercity>Consumer City</consumercity>
    <consumeriban>Consumer IBAN</consumeriban>
    <consumerbic>Consumer BIC</consumerbic>
  </transaction>
  <signature>
    <sha1>SHA1 trxid + status + amount + purchaseid + entrancecode
+ consumeraccount + merchantid + merchantkey</sha1>
  </signature>
</statusresponse>
```

Example

Request

URL: <https://www.sisow.nl/Sisow/iDeal/RestHandler.ashx/StatusRequest>

POST:

merchantid=2537987391&trxid=0050002676740002&sha1=069de4ee412d99d705f44059544f9b8ba2a0d371

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<statusresponse xmlns="https://www.sisow.nl/Sisow/REST" version="1.0.0">
  <transaction>
    <trxid>0050002676740002</trxid>
    <status>Success</status>
    <amount>100</amount>
    <purchaseid>123</purchaseid>
    <description>test betalen</description>
    <entrancecode>123</entrancecode>
    <issuerid>bunq</issuerid>
    <timestamp>2017-03-27 10:29:06Z</timestamp>
    <consumername>Testperson</consumername>
    <consumeraccount>NL53BUNQ0123456789</consumeraccount>
    <consumercity></consumercity>
    <consumeriban>NL53BUNQ0123456789</consumeriban>
    <consumerbic>BUNQNL2A</consumerbic>
  </transaction>
  <signature>
    <sha1> f0daf1a412d9f5a2af8ac2f2a6ea138184353eea</sha1>
  </signature>
</statusresponse>
```

SHA1 validatie

Calculate the SHA1 value of the string value:

0050002676740002Success100123123NL53BUNQ0123456789253798739128f31a03f4d272bb5d6dd6a345cce93b670e2f79

This should be the same as the sha1 included in the XML message (f0daf1a412d9f5a2af8ac2f2a6ea138184353eea).

5. InvoiceRequest

With the REST method InvoiceRequest the order is issued for invoicing (Focum / Klarna / AfterPay / Billink Invoice).

This will be the moment when you send the product or service.

The payment period for the customer will also start from this moment.

The InvoiceRequest can be accessed via a GET or POST request. This can be accessed via the URL below:

<https://www.sisow.nl/Sisow/iDeal/RestHandler.ashx/InvoiceRequest>

Parameters

<i>Parameter</i>	<i>Description</i>	<i>Required</i>
trxid	Transaction ID of the Klarna/Focum request	Yes
merchantid	The connection ID, which can be found in your Sisow profile.	Yes
sha1	The calculate SHA1 value of: trxid/merchantid/merchantkey	Yes

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<invoiceresponse xmlns="https://www.sisow.nl/Sisow/REST" version="1.0.0">
  <invoice>
    <invoiceno>InvoiceNo</invoiceno>
    <documentid>DocumentId</documentid>
  </invoice >
  <signature>
    <sha1>SHA1 invoiceno + documentid + merchantid + merchantkey</sha1>
  </signature>
</invoiceresponse>
```

6. CancelReservationRequest

The CancelReservationRequest method can be used to cancel a Sisow Focum/Klarna/AfterPay/Billink transaction for which an invoice has not been created yet.

The CancelReservationRequest can be accessed via a GET or POST request. This can be accessed via the URL below:

<https://www.sisow.nl/Sisow/iDeal/RestHandler.ashx/CancelReservationRequest>

Parameters

<i>Parameter</i>	<i>Description</i>	<i>Required</i>
trxid	Transaction ID of the Klarna/Focum request	Yes
merchantid	The connection ID, which can be found in your Sisow profile.	Yes
sha1	The calculated SHA1 value of: trxid/merchantid/merchantkey	Yes

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<cancelreservationresponse xmlns="https://www.sisow.nl/Sisow/REST" version="1.0.0">
  <reservation>
    <status>Cancelled</status>
  </reservation>
  <signature>
    <sha1>SHA1 trxid + merchantid + merchantkey</sha1>
  </signature>
</cancelreservationresponse>
```

7. CreditInvoiceRequest

The CreditInvoiceRequest method can be used to credit a Sisow Focum/Klarna/ AfterPay/Billink transaction for which an invoice has been created.

The CreditInvoiceRequest can be accessed via a GET or POST request. This can be accessed via the URL below:

<https://www.sisow.nl/Sisow/iDeal/RestHandler.ashx/CreditInvoiceRequest>

Parameters

Parameter	Description	Required
trxid	Transaction ID of the Klarna/Focum request	Yes
merchantid	The connection ID, which can be found in your Sisow profile.	Yes
amount	Amount that must be returned to the customer (only required with partial refund)	Conditional
tax	VAT % on the returned amount, 19% is passed on as 1900 (only required with partial refund)	Conditional
exclusive	Amount with parameter amount is exclusive of VAT (only required with partial refund).	Conditional
description	The description of the refund (only required with partial refunds).	Conditional
sha1	The calculated SHA1 of the following parameters: trxid/merchantid/merchantkey	Yes

Response

Full refund

```
<?xml version="1.0" encoding="UTF-8"?>
<creditinvoiceresponse xmlns="https://www.sisow.nl/Sisow/REST" version="1.0.0">
  <creditinvoice>
    <invoiceno>InvoiceNo</invoiceno>
    <documentid>DocumentId</documentid>
  </creditinvoice>
  <signature>
    <sha1>SHA1 invoiceno + documentid + merchantid + merchantkey</sha1>
  </signature>
</creditinvoiceresponse>
```

Partial retour

```
<?xml version="1.0" encoding="UTF-8"?>
<creditinvoiceresponse xmlns="https://www.sisow.nl/Sisow/REST" version="1.0.0">
  <creditinvoice>
    <partial>Success</partial>
  </creditinvoice>
  <signature>
    <sha1>SHA1 merchantid + merchantkey</sha1>
  </signature>
</creditinvoiceresponse>
```

8. RefundRequest

With the REST method RefundRequest, the instruction is given to refund a transaction. However, this is not possible with gift card transactions.

The RefundRequest can be accessed via a GET or POST request. This can be accessed via the URL below:

<https://www.sisow.nl/Sisow/iDeal/RestHandler.ashx/RefundRequest>

Parameters

Parameter	Omschrijving	Required
trxid	Transaction ID of the refund request	Yes
amount	If not specified the full amount will be returned.	No
merchantid	The connection ID, which can be found in your Sisow profile.	Yes
sha1	The calculated SHA1 value of the following parameters: trxid/merchantid/merchantkey	Yes

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<refundresponse xmlns="https://www.sisow.nl/Sisow/REST" version="1.0.0">
  <refund>
    <refundid>RefundId</refundid>
  </refund >
  <signature>
    <sha1>SHA1 refundid + merchantid + merchantkey</sha1>
  </signature>
</refundresponse>
```

Example

Request

URL: <https://www.sisow.nl/Sisow/iDeal/RestHandler.ashx/RefundRequest>

POST:

merchantid=2537987391&trxid=0050002676740002&amount=20&sha1=069de4ee412d99d705f44059544f9b8ba2a0d371

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<refundresponse xmlns="https://www.sisow.nl/Sisow/REST" version="1.0.0">
  <refund>
    <refundid>80481849777</refundid>
  </refund>
  <signature>
    <sha1>72bb34e8a8d11f562e3aa655063876ebce3ce946</sha1>
  </signature>
</refundresponse>
```

SHA1 validatie

Calculate the SHA1 value of the string

value:80481849777253798739128f31a03f4d272bb5d6dd6a345cce93b670e2f79

This should be the same as the sha1 included in the XML message.

(72bb34e8a8d11f562e3aa655063876ebce3ce946).

9. CheckMerchantRequest

The CheckMerchantRequest method can be used to verify the existence of a merchant and to retrieve the available payment options for this merchant.

The CheckMerchantRequest can be accessed via a GET or POST request. This can be accessed via the URL below:

<https://www.sisow.nl/Sisow/iDeal/RestHandler.ashx/CheckMerchantRequest>

Parameters

Parameter	Description	Required
merchantid	The connection ID, which can be found in your Sisow profile.	Yes
sha1	The sha1 value of merchantid/merchantkey	Yes

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<checkmerchantresponse xmlns="https://www.sisow.nl/Sisow/REST" version="1.0.0">
  <merchant>
    <active>true</active>
    <merchantid>Merchant ID</merchantid>
    <payments>
      <payment>ideal</payment>
      <payment>idealqr</payment>
      <payment>overboeking</payment>
      <payment>bunq</payment>
      <payment>creditcard</payment>
      <payment>sofort</payment>
      <payment>giropay</payment>
      <payment>eps</payment>
      <payment>mistercash</payment>
      <payment>homepay</payment>
      <payment>paypalec</payment>
      <payment>focum</payment>
      <payment>klarna</payment>
      <payment>vvv</payment>
      <payment>webshop</payment>
    </payments>
  </merchant >
  <signature>
    <sha1>SHA1 merchantid + merchantkey</sha1>
  </signature>
</checkmerchantresponse>
```

Example

Request

URL: <https://www.sisow.nl/Sisow/iDeal/RestHandler.ashx/CheckMerchantRequest>

POST:

merchantid=2537987391&sha1=c88c210abfc0e36b4d04557e3bd92272a88f42e8

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<checkmerchantresponse xmlns="https://www.sisow.nl/Sisow/REST" version="1.0.0">
  <merchant>
    <active>true</active>
    <merchantid>2537987391</merchantid>
    <payments>
      <payment>ideal</payment>
    </payments>
  </merchant>
  <signature>
    <sha1>c88c210abfc0e36b4d04557e3bd92272a88f42e8</sha1>
  </signature>
```

`</checkmerchantresponse>`

SHA1 validatie

Calculate the SHA1 value of the string: `253798739128f31a03f4d272bb5d6dd6a345cce93b670e2f79`

This should be the same as the sha1 included in the XML message
(`c88c210abfc0e36b4d04557e3bd92272a88f42e8`).

10. AdjustPurchaseId

With the AdjustPurchaseId method the purchase ID can be changed.

The RefundRequest can be accessed via a POST request. This can be accessed via the URL below:
<https://www.sisow.nl/Sisow/iDeal/RestHandler.ashx/AdjustPurchaseId>

Parameters

<i>Parameter</i>	<i>Description</i>	<i>Required</i>
Trxid	Het transactie ID waarvan het purchase ID moet worden aangepast	Yes
Old	The old purchase ID	Yes
New	The new purchase ID	Yes
merchantid	The connection ID, which can be found in your Sisow profile.	Yes
sha1	The sha1 value of trxid/old/new/merchantid/merchantkey	Yes

Response

```
<?xml version="1.0" encoding="UTF-8"?>
< adjustpurchaseidresponse xmlns="https://www.sisow.nl/Sisow/REST" version="1.0.0">
  <adjustpurchaseid>
    <purchaseid>new</purchaseid>
  </adjustpurchaseid>
  <signature>
    <sha1>new + merchantid + merchantkey</sha1>
  </signature>
</adjustpurchaseidresponse>
```

11. PingRequest

The PingRequest can be used to verify if the HTTP REST handler is still available.

The RefundRequest can be accessed via a GET request. This can be accessed via the URL below:
<https://www.sisow.nl/Sisow/iDeal/RestHandler.ashx/PingRequest>

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<pingresponse xmlns="https://www.sisow.nl/Sisow/REST" version="1.0.0">
  <timestamp>yyyMMdHHmmssfff</timestamp>
</pingresponse>
```

12. BatchRequest

The BatchRequest can be used to retrieve information about a paid batch.

The RefundRequest can be accessed via a GET or POST request. These can be accessed via the URL below:

<https://www.sisow.nl/Sisow/iDeal/RestHandler.ashx/BatchRequest>

Parameters

Parameter	Omschrijving	Verplicht
batchid	ID of the requested batch	Conditional*
startdate	The startdate of the batches that must be downloaded.	Conditional*
enddate	The enddate of the batches that must be downloaded.	Conditional*
transactions	If supplied with the value 'yes' then all transactions will be returned	No
merchantid	The connection ID, which can be found in your Sisow profile.	Yes
sha1	The sha1 value of: batchid/shopid/merchantid/merchantkey Or startdate/shopid/merchantid/merchantkey	Yes

* Make sure that you specify either a batchid or a start date and end date, also choose the sha1 calculation based on this.

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<batchresponse xmlns="https://www.sisow.nl/Sisow/REST" version="1.0.0">
  <batch>
    <batchid>BatchID</batchid>
    <timestamp>Tijdstip</timestamp>
    <count>Het aantal transacties</count>
    <amount>Omzet</amount>
    <cost>Kosten voor de transacties in centen</cost>
    <batch>Kosten voor de batch in centen</batch>
    <total>Kosten totaal in centen</total>
    <payed>Uitgekeerd in centen</payed>
    <transactions>
      <transaction>
        <trxid>TransactionID</trxid>
        <amount>Bedrag in centen</amount>
        <currency>ISO 4217 valutacode</currency>
        <purchaseid>Kenmerk</purchaseid>
        <description>Omschrijving</description>
        <entrancecode>EntranceCode</entrancecode>
        <trxidtimestamp>Tijdstip</trxidtimestamp>
        <consumername>Naam rekeninghouder</consumername>
        <consumeraccount>Bankrekening</consumeraccount>
        <consumercity>Plaats rekening</consumercity>
      </transaction>
    </transactions>
  </batch>
  <signature>
    <sha1>SHA1 batchid + count + payed + merchantid + merchantkey</sha1>
  </signature>
</batchresponse>
```

13. ErrorResponse

If an error occurs the message below will be returned.

```
<?xml version="1.0" encoding="UTF-8"?>
<errorresponse xmlns="https://www.sisow.nl/Sisow/REST" version="1.0.0">
  <error>
    <errorcode>TA....</errorcode>
    <errormessage>Foutmelding</errormessage>
  </error>
</errorresponse>
```

14. URL's

The result of a request can be returned in two different ways:

1. With a server-to-server call, the notifyurl can be used. The gateway expects a processing script without redirect. After the request is processed, the customer will be redirected to the web shop environment.
2. Without a notifyurl, the customer will be immediately directed to the returnurl or cancelurl.

Method 1 is preferable because the gateway will try up to 5 times to call the notifyurl. This increases the chance of a successful response. The gateway will also log extra information when a response is not successful so any errors can be quickly traced.

This method is also applied if a transaction does not complete 'normally', for example when a customer closes the browser to return to the web shop. Within 15 to 20 minutes after the transaction has started the gateway will proactively determine the (final) status of the transaction and sends a response message. This process is handled by the 'Callback Daemon'.

Method 2 can only occur once and the gateway will not be able to determine if the response message was sent successfully.

A querystring will be added to the returned URLs. This querystring consists of the following GET parameters:

<i>Parameter</i>	<i>Description</i>
trxid	The transaction id
ec	The supplied entrancecode
status	Status of a transaction; possible responses are described in Status chapter.
sha1	the SHA1 value of trxid/ec/status/merchantid/merchantkey. This can be used to verify the authenticity of the message
notify	'notify=true' will be added to the querystring during the notify process.
callback	The Callback Daemon will add 'callback =true' to the querystring.

15. Status

Below you will find all possible statuses of a transaction.

<i>Status</i>	<i>Description</i>
Success	A succesfull transaction
Expired	The transaction is Expired
Cancelled	The transaction is cancelled
Failure	An internal error has occurred with the chosen payment method
Pending	Awaiting actual payment, payment is not certain yet.
Reversed	The transaction has been reversed
Denied	The transaction request has been rejected by the payment method (AfterPay/Focum/Klarna/Billink)
Reservation	Transaction request successful invoice still needs to be created (AfterPay/Focum/Klarna/Billink)
Open	The transaction is still processing

16. Afterpay, Focum en Klarna

A short description regarding the Focum/Klarna/AfterPay payment methods implementation.

Collect all the required information for Sisow ecare and use this information in the TransactionRequest. During the request the customer data is checked first, followed by a credit check. An ErrorResponse will be returned if the checks are not successful.

If the checks are successful then the supplied amount for deferred payment will be reserved. An ErrorResponse will be returned if the reservation was not successful

These first two steps in the TransactionRequest process can last up to 30 seconds. A TransactionResponse message is returned if the transaction was successful. The status of the reservation will now be 'Reservation'. Store the returned 'trxid' which can be used to create an invoice (InvoiceRequest) or which can be used to cancel the reservation (CancelReservationRequest).

After these steps the following requests can be made:

- An 'InvoiceRequest' will create an invoice based on the reservation that has been made and the period of 14 days during which the payment should be made is started. The status of the transaction will now be changed to 'Success'.
- A 'CancelReservationRequest' will cancel a reservation that has been made. The status of the transaction will now be changed to 'Cancelled'.
- A 'CreditInvoiceRequest' will create a credit nota for the invoice that has been made. The status of the transaction will change too "Cancelled".

17. PayPal

During the execution of a PayPal transaction, the PayPal transaction may end up with the status "Pending".

Possible reasons for the "Pending" status:

- It concerns a payment via the bank account, linked to the PayPal account, of the customer. PayPal is then awaiting the actual receipt of the money from the customer's bank account.
- PayPal identifies the transaction as questionable and will conduct further investigation.

The status "Pending" is not a final status. The status "Pending" needs to be followed up by a final status such as "Success". This can take up to a few business days.

As soon as PayPal reports the final status to Sisow, Sisow will provide the final status to the webshop. Possible end states are:

- Success;
- Failed;
- Reversed (transaction has been undone).

These are returned back to the webshop using a notify message. After receiving the notify message, the status can be verified with the help of the StatusRequest.

18. Bijlage 1: payment values

Below you will find the list with possible values for the payment parameter in the TransationRequest.

Value	Payment method
ideal	iDEAL
idealqr	iDEAL QR
overboeking	Banktransfer
ebill	Ebill
bunq	bunq
creditcard	Creditcard
maestro	Maestro
vpay	V PAY
sofort	SOFORT Banking
giropay	Giropay
eps	EPS
mistercash	Bancontact
belfius	Belfius Pay Button
homepay	ING Home'Pay
kbc	KBC
cbc	CBC
paypalec	PayPal Express Checkout
afterpay	Afterpay
billink	Billink
capayable	Capayable
focum	Focum
klarna	Klarna Invoice
vvv	VVV Giftcard
webshop	Webshop Giftcard

19. Bijlage 2: Giropay/EPS

The available Giropay / EPS BIC codes can be retrieved using a Javascript widget.

A stylesheet is available for this via the URL below:
<https://bankauswahl.giropay.de/widget/v2/style.css>

The Javascript widget you could use can be accessed using the link below:
<https://bankauswahl.giropay.de/widget/v2/girocheckoutwidget.js>

The following input can then be used for Giropay.

```
<input type="text" id="giropay_bic" name="giropay_bic" value="" onkeyup="girocheckout_widget(this, event, 'bic', '0')">
```

The following combination can be used for EPS.

```
<input type="text" id="eps_bic" name="eps_bic" value="" onkeyup="girocheckout_widget(this, event, 'bic', '3')">
```

Below you will find a complete example of a Giropay display.

```
<html>
<head>
  <link rel="stylesheet" href="https://bankauswahl.giropay.de/widget/v2/style.css" />
</head>
<body>
  <form method="POST" action="">
    <input type="text" id="giropay_bic" name="giropay_bic" autocomplete="off" value="" onkeyup="girocheckout_widget(this, event, 'bic', '0')">
  </form>
  <script src="https://bankauswahl.giropay.de/widget/v2/girocheckoutwidget.js"></script>
</body>
</html>
```

20. Bijlage 3: Foutcodes

<i>Code</i>	<i>Message</i>	<i>Method</i>	<i>Explanation</i>
TA3110	No merchantid	StatusRequest	GET/POST parameter merchantid does not exist
TA3120	No transactionid	StatusRequest	GET/POST parameter trxid does not exist
TA3130	No SHA1	StatusRequest	GET/POST parameter sha1 does not exist
TA3140	No transaction	StatusRequest	Merchant and or transaction not found
TA3150	SHA1 incorrect	StatusRequest	The supplied SHA1 value does not correspond with the calculated value
TA3210	No merchantid	TransactionRequest	GET/POST parameter merchantid does not exist
TA3220	Merchant not found	TransactionRequest	The supplied merchantid is unknown or does not exist
TA3225	Account closed	TransactionRequest	The supplied account is closed for transactions
TA3227	Account not active for live transactions	TransactionRequest	The supplied is not (yet) active for live transactions.
TA3230	No purchaseid	TransactionRequest	GET/POST parameter purchaseid does not exist
TA3240	Purchasid too long (16)	TransactionRequest	Up to 16 characters are allowed for the Purchaseid
TA3250	Purchaseid contains illegal characters	TransactionRequest	The Purchaseid contains one or more characters that are not allowed
TA3260	No amount	TransactionRequest	GET/POST parameter amount does not exist
TA3270	Amount incorrect	TransactionRequest	Parameter amount cannot be converted to a valid number (cents)
TA3280	Amount Negative	TransactionRequest	The specified amount is too low for the payment method
TA3290	No issuerid	TransactionRequest	GET/POST parameter issuerid does not exist
TA3300	Unknown issuerid	TransactionRequest	The supplied issuerid is unknown or does not exist
TA3310	Entrancecode too long (40)	TransactionRequest	Up to 40 characters are allowed for the Entrancecode
TA3320	Entrancecode contains illegal characters	TransactionRequest	The Entrancecode contains one or more characters that are not allowed
TA3330	No SHA1	TransactionRequest	GET/POST parameter sha1 does not exist
TA3340	SHA1 incorrect	TransactionRequest	The supplied SHA1 value does not correspond with the calculated value
TA3350	No description	TransactionRequest	GET/POST parameter description does not exist, or the default description in the section 'My Profile' is not configured
TA3360	Description too long (32)	TransactionRequest	Up to 32 characters are allowed for the description
TA3370	No returnurl	TransactionRequest	GET/POST parameter returnurl does not exist, or the returnURL in the section 'My Profile' is not configured
TA3380	Insert error	TransactionRequest	Internal error
TA3390	IDealException	TransactionRequest	An error has occurred while initiating an IDEAL transaction
TA3400	Exception	TransactionRequest	A general error has occurred while
TA3410	Simulation forbidden	TransactionRequest	Test/simulation transactions are not allowed
TA3420	No mail	TransactionRequest	GET/POST parameter billing_mail does not exist

TA3430	No contract	TransactionRequest	The supplied merchant does not have a Sisow ecare contract
TA3431	No contract	TransactionRequest	No Home'Pay contract
TA3432	Currency XXX not allowed	TransactionRequest	Specified currency is not allowed for the payment method
TA3436	Invalid DOB	TransactionRequest	No or wrong date of birth
TA3440	Customer not found	TransactionRequest	Customer not found or not creditworthy
TA3450	Reservation not possible	TransactionRequest	The reservation of the supplied amount was not successful
TA3453	Reservation not possible	TransactionRequest	The reservation of the specified amount was not successful, date of birth is not accepted
TA3438	No houseno	TransactionRequest	No house number supplied for billing_address1 or shipping_address1
TA6120	No PayPal API data	TransactionRequest	No PayPal API data found in the Sisow profile
TA6121	No PayPal API data	TransactionRequest	No PayPal API data found in the Sisow profile
TA8000	Error in cart	TransactionRequest	There is an error in the supplied products (invalid VAT %)
TA8001	No lines	TransactionRequest	No orderlines in transactionrequest
TA8002	Incorrect amount	TransactionRequest	Order lines added (product_total_x) does not match the amount claimed (amount)
TA3510	No merchantid	CheckMerchant	GET/POST parameter merchantid does not exist
TA3520	No SHA1	CheckMerchant	GET/POST parameter sha1 komt niet voor
TA3530	Merchant not found	CheckMerchant	The supplied merchantid is unknown or does not exist
TA3540	SHA1 incorrec t	CheckMerchant	The supplied SHA1 value does not correspond with the calculated value
TA3710	Not cancelled	CancelReservation	The reservation could not be canceled (Focum/Klarna/AfterPay)
TA3810	Not found	InsertInvoice	No order details were found (Focum/Klarna/AfterPay)
TA3820	No invoice	InsertInvoice	The invoice could not be created
TA3830	No PDF	InsertInvoice	The PDF could not be created
TA3840	Exception	InsertInvoice	A general error has occurred while creating an invoice

21. Bijlage 4: Changelog

Versie 5.2.3

- New layout

Versie 5.2.2

- Added: split payment parameter

Versie 5.2.1

- Billink parameter toegevoegd in het lijstje payment parameters
- REST Method AdjustPurchaseId toegevoegd
- REST Method CreditInvoiceRequest geschikt gemaakt voor gedeeltelijke credit

Versie 5.2.0

- Billink betaalmethode toegevoegd

Versie 5.1.0

- Betaalmethoden KBC/CBC toegevoegd
- "Payment values" verplaatst naar bijlage 1

Versie 5.0.1

- CheckMerchantResponse, V-PAY Maestro verwijderd aangezien deze niet via de API worden teruggegeven

Versie 5.0.0

- Capayable toegevoegd

Versie 4.9.1

- Foutcode TA3438 toegevoegd

Versie 4.9.0

- Belfius toegevoegd

Versie 4.8.1

- Foutcodes TA8001 & TA8002 toegevoegd

Versie 4.8.0

- Afterpay implementatie toegevoegd

Versie 4.7.2

- iDEAL QR toegevoegd

Versie 4.7.1

- Enkele typo's uit de documentatie gehaald

Versie 4.7.0

- Eerste versie in nieuwe Sisow huisstijl