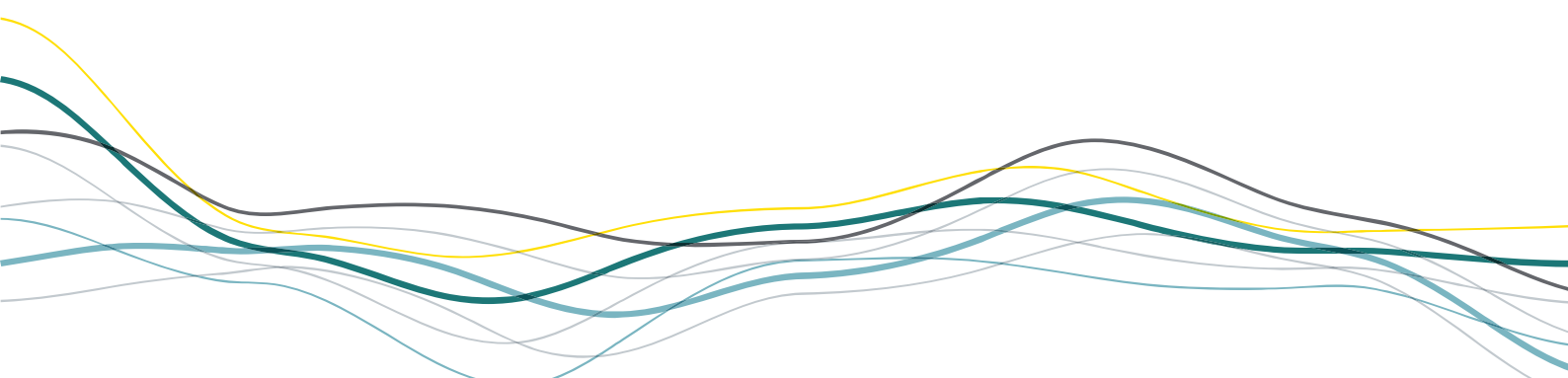




INSINGER  
GILISSEN  
A QUINTET PRIVATE BANK

# TECHNICAL SPECIFICATIONS API

InsingerGilissen Bankiers N.V.



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# INTRODUCTION

This document describes the implementation by InsingerGilissen of European Union Revised Directive on Payment Services (PSD2, EU 2015/2366).

Implementation is based on the Berlin Group NextGenPSD2 specification ([www.berlin-group.org/nextgenpsd2-downloads](http://www.berlin-group.org/nextgenpsd2-downloads)).

This document includes the specifications of the API made available by InsingerGilissen to provide licensed third parties the necessary information to obtain access to the accounts of InsingerGilissen's clients.

**Chapter 1** summarizes the available environments.

**Chapter 2** describes the REST calls the API supports.

**Chapter 3** shows test calls including body when applicable, http headers and call specifics to get the results shown.

**Chapter 4** shows the internet application for a sample client in relation to the test calls from Chapter 3.

**Appendix A** shows details of the techniques used with the test calls from Chapter 3 but can be interchanged with anything of your liking.

**Appendix B** shows test data available in the test site.

# CHAPTER 1: ENVIRONMENTS

## Production site

Production definitions need to be determined.

Official QWAC and QSEAL certificates required.

<a href="https://&lt;not_confirmed&gt;.insingergilissen.nl/psd/">https://&lt;not_confirmed&gt;.insingergilissen.nl/psd/</a>	Base url for Berlin group rest api's. TLS client certificate enforcement
<a href="https://&lt;not_confirmed&gt;.insingergilissen.nl/ebanking/oauth/token">https://&lt;not_confirmed&gt;.insingergilissen.nl/ebanking/oauth/token</a>	Oauth 2.0 authorization url (initiation) TLS client certificate enforcement
<a href="https://&lt;not_confirmed&gt;.insingergilissen.nl/ebanking/oauth">https://&lt;not_confirmed&gt;.insingergilissen.nl/ebanking/oauth</a>	Oauth 2.0 authorization url (client redirect)

## Test site

Official QWAC and QSEAL certificates are supported.

<a href="https://test.api.ebanking.insingergilissen.nl/psd/">https://test.api.ebanking.insingergilissen.nl/psd/</a>	Base url for Berlin group rest api's. TLS client certificate enforcement
<a href="https://test.ebanking.insingergilissen.nl/ebanking/oauth/token">https://test.ebanking.insingergilissen.nl/ebanking/oauth/token</a>	Oauth 2.0 authorization url (initiation) TLS client certificate enforcement
<a href="https://test.ebanking.insingergilissen.nl/ebanking/oauth">https://test.ebanking.insingergilissen.nl/ebanking/oauth</a>	Oauth 2.0 authorization url (client redirect)

## CHAPTER 2: SUPPORTED REST CALLS

Rest calls are shown in order of definition in document psd2-api 1.3.3 20190412.yaml.

Authorization initiation is not described by the Berlin group. This follows on the definitions by the Berlin group.

### Scope

XML is not supported. Current supported YAML version 1.3.2, see the Berlin Group NextGenPSD2 Downloads page.

### 2.1 BERLIN GROUP NEXTGENPSD2

For body layout, headers, arguments: see psd2-api documentation by Berlin Group.

#### payment-service

Implementations exist for:

/v1/payments/sepa-credit-transfers

/v1/periodic-payments/sepa-credit-transfers

uri	action	description
/v1/{payment-service}/{payment-product}	POST	Payment initiation request
/v1/{payment-service}/{payment-product}/{paymentId}	GET	Get payment Information
	DELETE	Payment Cancellation
/v1/{payment-service}/{payment-product}/{paymentId}/status	GET	Get Payment initiation status

#### accounts

uri	action	description
/v1/accounts	GET	Read Account List
/v1/accounts/{account-id}	GET	Read Account Details
/v1/accounts/{account-id}/balances	GET	Read Account Balance
/v1/accounts/{account-id}/transactions	GET	Read transaction list of an account

#### consents

uri	action	description
/v1/consents	POST	Create consent
/v1/consents/{consentId}	GET	Get consent request
	DELETE	Delete consent
/v1/consents/{consentId}/status	GET	Read consent status

#### funds-confirmations

uri	action	description
/v1/funds-confirmations	POST	Confirmation of Funds Request

## 2.2 AUTHORIZATION

Authorization is performed using OAuth.

Revert to Berlin Groups PSD2 documentation for details on fields to be filled (for Token Name, Scope).

URL parameters `code_challenge` and `code_challenge_method` should be used to properly protect all parties involved.

### Parameters

Type	OAuth 2.0
Token Name	
Grant Type	Authorization Code
Callback URL	
Auth URL	<a href="https://test.ebanking.insingergilissen.nl/ebanking/oauth/authorize?&amp;code_challenge=XXXX&amp;code_challenge_method=plain">https://test.ebanking.insingergilissen.nl/ebanking/oauth/authorize?&amp;code_challenge=XXXX&amp;code_challenge_method=plain</a>
Access Token URL	<a href="https://test.ebanking.insingergilissen.nl/ebanking/oauth/token?code_verifier=XXXX">https://test.ebanking.insingergilissen.nl/ebanking/oauth/token?code_verifier=XXXX</a>
Client ID	
Client Secret	
Scope	
State	
Client Authentication	Send client credentials in body

## CHAPTER 3: EXAMPLE CALLS

Examples are shown to quickly get started. Proper programming practice should be followed. Flaws discovered can be reported.

Refer to appendix B for available data in the PSD2 test environment.

Targeted accounts (logon): NL78GILL0298334569, NL56GILL0298334577 (demo5).

### 3.1: PAYMENT

Create:

POST <https://test.api.ebanking.insingergilissen.nl/psd/v1/payments/sepa-credit-transfers>

Request

request body (json):

```
{
  "instructedAmount": {"currency": "EUR", "amount": "11.95"},
  "debtorAccount": {"iban": "NL56GILL0298334577"},
  "creditorName": "Merchant123",
  "creditorAccount": {"iban": "NL10FVLB0699007348"},
  "remittanceInformationUnstructured": "3.1 Payment create"
}
```

Accompanying headers:

Content-Type	application/json
X-Request-ID	99491c7e-ad88-49ec-a2ad-99ddcb1f1000
TPP-Redirect-URI	<a href="https://test.api.ebanking.insingergilissen.nl/">https://test.api.ebanking.insingergilissen.nl/</a>
TPP-Signature-Certificate	MIIDZDCCAkwCCQDROE.....

Calculated headers:

Digest:	SHA-256=W1v1k11Zuzll9Jsx+2VfmEKene3gH4eewwUnLaT9bVA=
Signature:	keyId="xxx",algorithm="rsa-sha256",headers="Digest X-Request-ID TPP-Redirect-URI",signature="PspQvqY3VM1XUnC59Y+...=="

Digest is calculated on the body.

Signature is based on private key calculated on, Digest X-Request-ID TPP-Redirect-URI

Response

Status 201 Created

Response body:

```
{
  "transactionStatus": "RCVD",
  "paymentId": "10401",
  "_links": {
    "scaOAuth": {
      "href": "http://localhost:8080/ebank/oauth/authorize"
    },
    "self": {
      "href": "v1/payments/10401"
    },
    "status": {
      "href": "v1/payments/10401/status"
    },
    "scaStatus": null
  }
}
```

Note: 10401



Authorize:

### OAuth Request

Parameters

Type	OAuth 2.0
Token Name	PIS:10401
Grant Type	Authorization Code
Callback URL	https://test.api.ebanking.insingergilissen.nl/
Auth URL	https://test.ebanking.insingergilissen.nl/ebanking/oauth/authorize?&code_challenge=XXXX&code_challenge_method=plain
Access Token URL	https://test.ebanking.insingergilissen.nl/ebanking/oauth/token?code_verifier=XXXX
Client ID	psd_test_user1
Client Secret	
Scope	PIS:10401
State	QuickDog1
Client Authentication	Send client credentials in body

### OAuth Response

Parameters

Token Name	PIS:10401
Access Token	eyJhbGciOiJSUz...
Token Type	bearer
expires_in	899
scope	PIS:10401

Read Status:

GET https://test.api.ebanking.insingergilissen.nl/psd/v1/payments/sepa-credit-transfers/10401/status

Request

Using access token obtained

Accompanying headers:

Content-Type	application/json
X-Request-ID	99491c7e-ad88-49ec-a2ad-99ddcb1f1000
TPP-Redirect-URI	https://test.api.ebanking.insingergilissen.nl/
TPP-Signature-Certificate	MIIDZDCCAkwCCQDROE.....
Digest:	SHA-256=W1v1k11Zuzll9Jsx+2VfmEKEn3gH4eewwUnLaT9bVA=
Signature:	keyId="xxx",algorithm="rsa-sha256",headers="Digest X-Request-ID TPP-Redirect-URI",signature="PspQvqY3VM1XUnC59Y+...=="

\*) Signature was re-used: Digest, X-Request-ID, TPP-Redirect-URI and thus body were re-used from Create. All can be re-initialized to new values.

Response

Status 200 OK

<pre>{   "transactionStatus": "ACCC" }</pre>
--

## Read Payment:

GET https://test.api.ebanking.insingergilissen.nl /psd/v1/payments/sepa-credit-transfers/10401

## Request

Using access token obtained

## Accompanying headers:

Content-Type	application/json
X-Request-ID	99491c7e-ad88-49ec-a2ad-99ddcb1f1000
TPP-Redirect-URI	https://test.api.ebanking.insingergilissen.nl/
TPP-Signature-Certificate	MIIDZDCCAkwCCQDROE.....
Digest:	SHA-256=W1v1k11Zuzll9Jsx+2VfmEKEn3gH4eewwUnLaT9bVA=
Signature:	keyId="xxx",algorithm="rsa-sha256",headers="Digest X-Request-ID TPP-Redirect-URI",signature="PspQvqY3VM1XUnC59Y+...=="

## Response

Status 200 OK

```
{
  "debtorAccount": {
    "iban": "NL56GILL0298334577"
  },
  "instructedAmount": {
    "currency": "EUR",
    "amount": "11.95"
  },
  "creditorAccount": {
    "iban": "NL10FVLB0699007348",
    "currency": "EUR"
  },
  "creditorName": null,
  "remittanceInformationUnstructured": "3.1 Payment create"
}
```

See image: Transaction overview, details of executed transaction, Chapter 4: Example Client

## 3.2 CONSENT

Create:

POST <https://test.api.ebanking.insingergilissen.nl/psd/v1/consents>

Request

request body (json):

```
{
  "access": {
    "accounts": [{"iban": "NL56GILL0298334577"}, {"iban": "NL78GILL0298334569"}],
    "balances": [{"iban": "NL56GILL0298334577", "currency": "EUR"}, {"iban": "NL78GILL0298334569", "currency": "EUR"}],
    "transactions": [
      { "iban": "NL56GILL0298334577"},
      { "maskedPan": "123456xxxxx1234"}
    ],
    "recurringIndicator": "true",
    "validUntil": "2019-07-10",
    "frequencyPerDay": "4",
    "combinedServiceIndicator": "true"
  }
}
```

Accompanying headers:

Content-Type	application/json
X-Request-ID	99491c7e-ad88-49ec-a2ad-99ddcb1f1001
TPP-Redirect-URI	<a href="https://test.api.ebanking.insingergilissen.nl/">https://test.api.ebanking.insingergilissen.nl/</a>
TPP-Signature-Certificate	MIIDZDCCAkwCCQDROE.....

Calculated headers:

Digest:	SHA-256=POhT4JIF/Qhk7AXsrO45WnUnIM1QFmznsMYG1ikFsMM=
Signature:	keyId="xxx",algorithm="rsa-sha256",headers="Digest X-Request-ID TPP-Redirect-URI",signature="ysmAqxnaoJ1z2Oxd...=="

Digest is calculated on the body.

Signature is based on private key calculated on, Digest X-Request-ID TPP-Redirect-URI

Response

Status 201 Created

Response body:

```
{
  "consentStatus": "RECEIVED",
  "consentId": "6",
  "_links": {
    "self": {
      "href": "v1/consents/6"
    },
    "status": {
      "href": "v1/consents/6/status"
    }
  }
}
```

Note: 6

Authorize:

### OAuth Request

Parameters

Type	OAuth 2.0
Token Name	AIS:6
Grant Type	Authorization Code
Callback URL	https://test.api.ebanking.insingergilissen.nl/
Auth URL	https://test.ebanking.insingergilissen.nl/ebanking/oauth/authorize?&code_challenge=XXXX&code_challenge_method=plain
Access Token URL	https://test.ebanking.insingergilissen.nl/ebanking/oauth/token?code_verifier=XXXX
Client ID	psd_test_user1
Client Secret	
Scope	AIS:6
State	QuickDog2
Client Authentication	Send client credentials in body

\*) See image authorization request

### OAuth Response

Parameters

Token Name	AIS:6
Access Token	eyJhbGciOiJSUzI1NiJ9...
Token Type	bearer
expires_in	7113891
scope	AIS:6

Read Status:

GET https://test.api.ebanking.insingergilissen.nl/psd/v1/consents/6/status

Request

Using access token obtained

Accompanying headers (from POST):

X-Request-ID	99491c7e-ad88-49ec-a2ad-99ddcb1f1000
TPP-Redirect-URI	https://test.api.ebanking.insingergilissen.nl/
TPP-Signature-Certificate	MIIDZDCCAkwCCQDROE.....
Digest:	SHA-256=POhT4JIF/Qhk7AXsrO45WnUnIM1QFmznsMYG1ikFsMM=
Signature:	keyId="xxx",algorithm="rsa-sha256",headers="Digest X-Request-ID TPP-Redirect-URI",signature="ysmAqxnaoJ1z2Oxd...=="

\*) Signature was re-used: Digest, X-Request-ID, TPP-Redirect-URI and thus body were re-used from Create. All can be re-initialized to new values.

Response

Status 200 OK

<pre>{   "consentStatus": "VALID" }</pre>
---

## Read Details:

GET https://test.api.ebanking.insingergilissen.nl/psd/v1/consents/6

## Request

Using access token obtained

Accompanying headers (from POST):

X-Request-ID	99491c7e-ad88-49ec-a2ad-99ddcb1f1000
TPP-Redirect-URI	https://test.api.ebanking.insingergilissen.nl/
TPP-Signature-Certificate	MIIDZDCCAkwCCQDROE.....
Digest:	SHA-256=POhT4JIF/Qhk7AXsrO45WnUnIM1QFmznsMYG1ikFsMM=
Signature:	keyId="xxx",algorithm="rsa-sha256",headers="Digest X-Request-ID TPP-Redirect-URI",signature="ysmAqxnaoJ1z2Oxd...=="

\*) Signature was re-used: Digest, X-Request-ID, TPP-Redirect-URI and thus body were re-used from Create. All can be re-initialized to new values.

## Response

Status 200 OK

```

{
  "access": {
    "accounts": [
      {
        "iban": "NL56GILL0298334577",
        "currency": "EUR"
      },
      {
        "iban": "NL78GILL0298334569",
        "currency": "EUR"
      }
    ],
    "balances": [
      {
        "iban": "NL56GILL0298334577",
        "currency": "EUR"
      },
      {
        "iban": "NL78GILL0298334569",
        "currency": "EUR"
      }
    ],
    "transactions": [
      {
        "iban": "NL56GILL0298334577",
        "currency": "EUR"
      }
    ]
  },
  "recurringIndicator": true,
  "validUntil": "2019-07-10 00:00:00",
  "frequencyPerDay": 4,
  "lastActionDate": null,
  "consentStatus": "VALID"
}

```

\*) See image Overview of Psd2 consents, details of Psd2 consent, Chapter 4: Example Client

### 3.3 ACCOUNT DETAILS

Using Consent-ID obtained.

#### Overview:

GET <https://test.api.ebanking.insingergilissen.nl/psd/v1/accounts>

#### Request

Accompanying headers (from contents POST), add header Consent-ID:

X-Request-ID	99491c7e-ad88-49ec-a2ad-99ddcb1f1000
TPP-Redirect-URI	<a href="https://test.api.ebanking.insingergilissen.nl/">https://test.api.ebanking.insingergilissen.nl/</a>
TPP-Signature-Certificate	MIIDZDCCAkwCCQDROE.....
Digest:	SHA-256=POhT4JIF/Qhk7AXsrO45WnUnIM1QFmznsMYG1ikFsMM=
Signature:	keyId="xxx",algorithm="rsa-sha256",headers="Digest X-Request-ID TPP-Redirect-URI",signature="ysmAqxnaoJ1z2Oxd...=="
Consent-ID	6

\*) Signature was re-used: Digest, X-Request-ID, TPP-Redirect-URI and thus body were re-used from Create of consent. All can be re-initialized to new values.

#### Response

Status 200 OK

```
{
  "accounts": [
    {
      "resourceId": "10255",
      "iban": "NL56GILL0298334577",
      "currency": "EUR",
      "name": "PRANGER, T.P.",
      "cashAccountType": "C10:account",
      "status": "ENABLED",
      "bic": "ABSXNLXXXX",
      "_links": {
        "balances": {
          "href": "v1/accounts/10255/balances"
        },
        "transactions": {
          "href": "v1/accounts/10255/transactions"
        }
      }
    },
    {
      "resourceId": "10254",
      "iban": "NL78GILL0298334569",
      "currency": "EUR",
      "name": "PRANGER, T.P. en/of HULST, N. VAN",
      "cashAccountType": "C10:account",
      "status": "ENABLED",
      "bic": "ABSXNLXXXX",
      "_links": {
        "balances": {
          "href": "v1/accounts/10254/balances"
        }
      }
    }
  ]
}
```

Note: the href's for balances and transactions (NL56GILL0298334577) and href for balances (NL78GILL0298334569)

#### Zoom in (balances):

GET <https://test.api.ebanking.insingergilissen.nl/psd/v1/accounts/10255/balances>

#### Request

Accompanying headers (from contents POST), add header Consent-ID:

X-Request-ID	99491c7e-ad88-49ec-a2ad-99ddcb1f1000
TPP-Redirect-URI	<a href="https://test.api.ebanking.insingergilissen.nl/">https://test.api.ebanking.insingergilissen.nl/</a>
TPP-Signature-Certificate	MIIDZDCCAkwCCQDROE.....
Digest:	SHA-256=POhT4JIF/Qhk7AXsrO45WnUnIM1QFmznsMYG1ikFsMM=
Signature:	keyId="xxx",algorithm="rsa-sha256",headers="Digest X-Request-ID TPP-Redirect-URI",signature="ysmAqxnaoJ1z2Oxd...=="
Consent-ID	6

\*) Signature was re-used: Digest, X-Request-ID, TPP-Redirect-URI and thus body were re-used from Create of consent. All can be re-initialized to new values.

#### Response

Status 200 OK

```

{
  "account": {
    "iban": "NL56GILL0298334577",
    "currency": "EUR"
  },
  "balances": [
    {
      "balanceAmount": {
        "currency": "EUR",
        "amount": "70528.05"
      },
      "balanceType": "EXPECTED",
      "lastChangeDateTime": "2019-04-18 15:12:27"
    }
  ]
}

```

#### Zoom in (transactions: failing, succeeding):

GET <https://test.api.ebanking.insingergilissen.nl/psd/v1/accounts/10255/transactions>

GET <https://test.api.ebanking.insingergilissen.nl/psd/v1/accounts/10255/transactions?dateFrom=2019/04/18&dateTo=2019/04/18>

(parameters dateFrom and dateTo added to show transactions executed on specific day)

#### Request

Accompanying headers (from contents POST), add header Consent-ID:

X-Request-ID	99491c7e-ad88-49ec-a2ad-99ddcb1f1000
TPP-Redirect-URI	<a href="https://test.api.ebanking.insingergilissen.nl/">https://test.api.ebanking.insingergilissen.nl/</a>
TPP-Signature-Certificate	MIIDZDCCAkwCCQDROE.....
Digest:	SHA-256=POhT4JIF/Qhk7AXsrO45WnUnIM1QFmznsMYG1ikFsMM=
Signature:	keyId="xxx",algorithm="rsa-sha256",headers="Digest X-Request-ID TPP-Redirect-URI",signature="ysmAqxnaoJ1z2Oxd...=="
Consent-ID	6

\*) Signature was re-used: Digest, X-Request-ID, TPP-Redirect-URI and thus body were re-used from Create of consent. All can be re-initialized to new values.

**Response (failing)**

Status 400 Bad Request

```
{
  "category": "ERROR",
  "code": "SERVICE_INVALID",
  "text": "Consent: 6 exceeded maximum accesses per day."
}
```

**Response (succeeding)**

executed next day, padded "?dateFrom=2019/04/18&amp;dateTo=2019/04/18" to show previous day

Status 200 OK

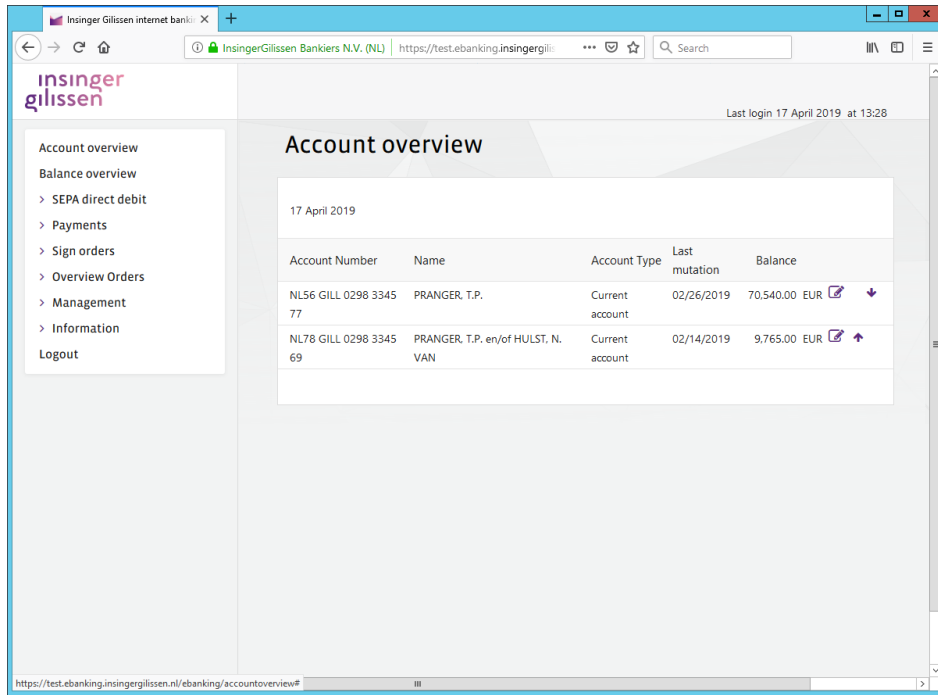
```
{
  "account": {
    "iban": "NL56GILL0298334577"
  },
  "transactions": {
    "booked": [
      {
        "transactionId": "10401",
        "bookingDate": "2019-04-18",
        "valueDate": "2019-04-18",
        "transactionAmount": {
          "currency": "EUR",
          "amount": "-11.95"
        },
        "creditorName": "Merchant123",
        "creditorAccount": {
          "iban": "NL10FVLB0699007348"
        },
        "remittanceInformationUnstructured": "3.1 Payment create"
      }
    ],
    "_links": null
  }
}
```



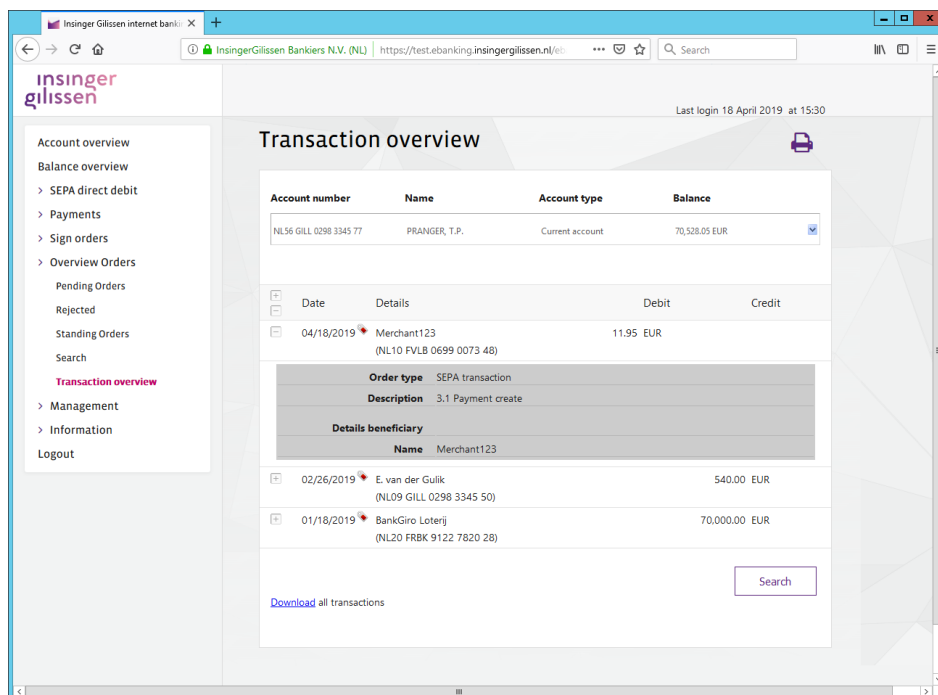
# CHAPTER 4: EXAMPLE CLIENT

Upon request a test user can be supplied. PSD2 calls should be generated for accounts accessible by that user.

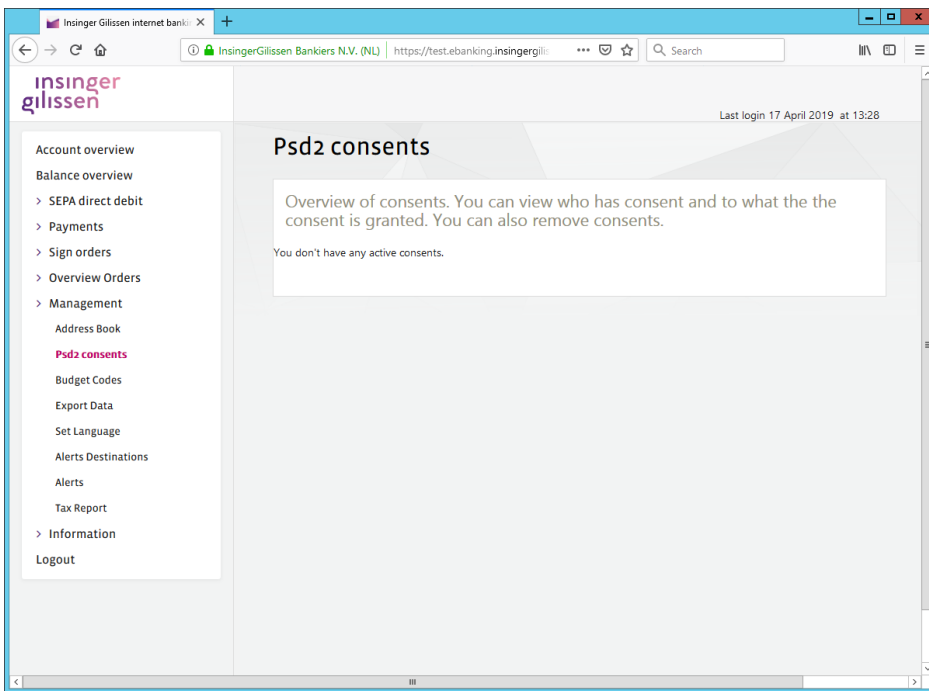
<https://test.ebanking.insingergilissen.nl/ebanking>



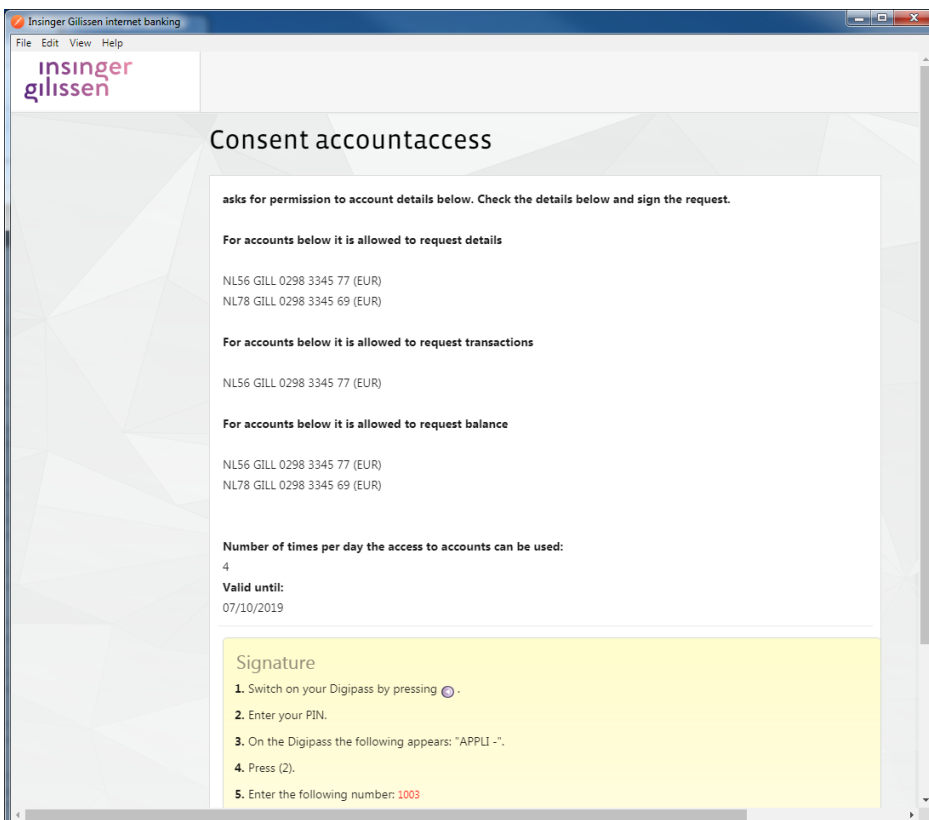
Default page upon logon



Transaction overview, details of executed transaction



Overview of Psd2 consents (none)



Signing consent request

insinger gilissen

Last login 18 April 2019 at 15:53

## Psd2 consents

Overview of consents. You can view who has consent and to what the consent is granted. You can also remove consents.

Third party	Consent valid until	Frequency	
Test party 1	07/10/2019	4	<input type="checkbox"/> ✕

**Details consent to accounts**  
 NL56 GILL 0298 3345 77 (EUR)  
 NL78 GILL 0298 3345 69 (EUR)

**Transactions consent to accounts**  
 NL56 GILL 0298 3345 77 (EUR)

**Balance consent to accounts**  
 NL56 GILL 0298 3345 77 (EUR)  
 NL78 GILL 0298 3345 69 (EUR)

Overview of Psd2 consents, details of Psd2 consent

# APPENDIX A: TECHNIQUES USED

## Certificates

We urge to use proper PSD2 certificates.

Internally we used certificates with the following additions:

openssl.conf:

```
psd2=2.5.4.97
at new_oids section
```

certificate request generation, specific subject definition:

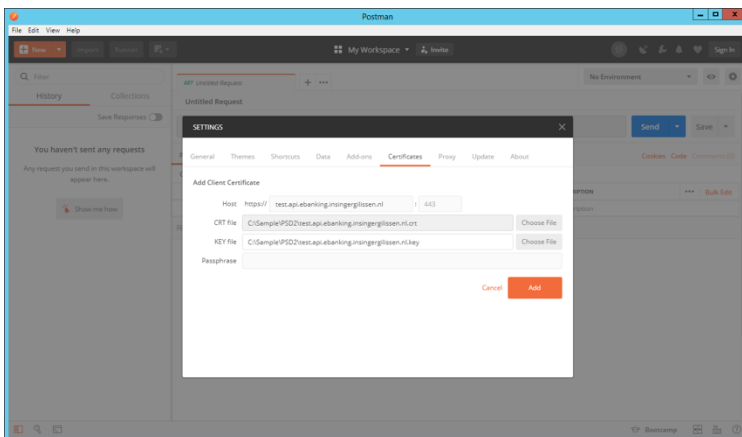
```
-subj '/2.5.4.97=psd_test_user1/O= Test party 1/C=NL/ST=NorthHolland/L=Amsterdam/CN=test.api.ebanking....'
```

OpenSSL 1.1.0 (for client certificates)

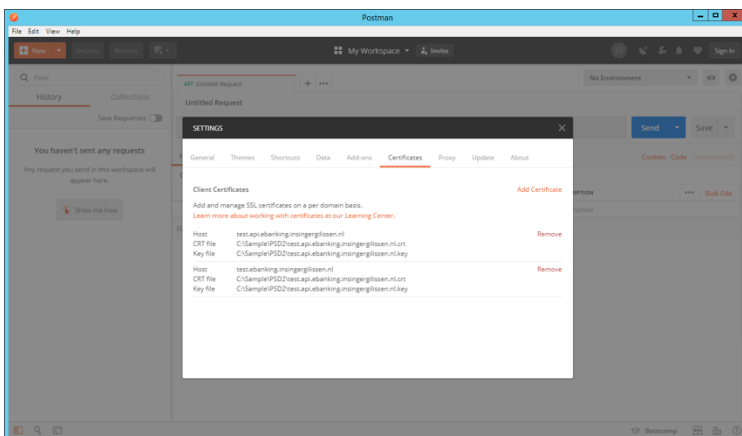
Postman 7.0.7 (PostmanRuntime/7.6.1)

Tip: remove Cookies when something is not working as expected.

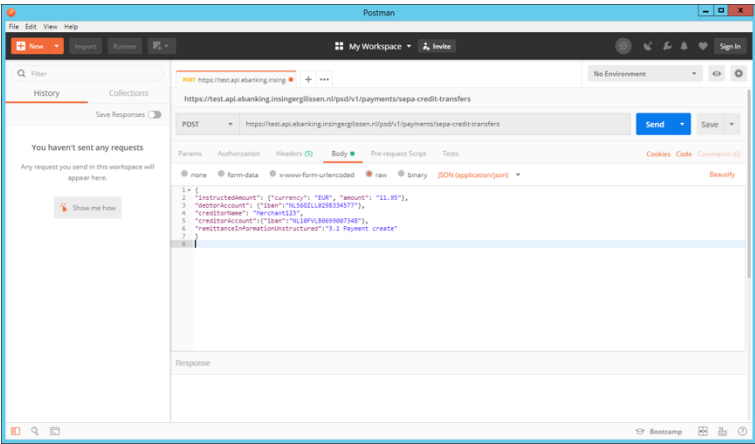
With links shown above: do not fill in '443', otherwise client certificates will not be presented by Postman.



Add client certificate to be used.



Client certificates to be used on both sites.



Sample call

# APPENDIX B: TEST DATA

Following pages: inserted report data.

# TGB036 Content PSD2 test database

Report date: 11/03/2019 10:27:49

## Summary accounts

NL09 GILL 0298 3345 50 EUR	00000015	E. van der Gulik	Person	Q01 First owner
NL12 GILL 0298 3345 93 EUR	00000022	L. van der Stoel	Person	Q01 First owner
	00000016	J.M.A. Vliegen	Person	Q04 Proxy
NL22 GILL 0298 3346 07 EUR	00000022	L. van der Stoel	Person	Q01 First owner
NL31 GILL 0298 3345 42 EUR	00000015	E. van der Gulik	Person	Q01 First owner
NL34 GILL 0298 3345 85 EUR	00000021	L.M.A. Kruisselbrink	Person	Q01 First owner
NL53 GILL 0298 3345 34 EUR	00000017	Top Consultancy	Corporate	Q01 Owner
	00000018	C.H. Geerling	Person	Q18 Director/majority share
NL56 GILL 0298 3345 77 EUR	00000019	T.P. Pranger	Person	Q01 First owner
NL75 GILL 0298 3345 26 EUR	00000016	J.M.A. Vliegen	Person	Q01 First owner
NL75 GILL 0298 3346 23 EUR	00000018	C.H. Geerling	Person	Q01 First owner
NL78 GILL 0298 3345 69 EUR	00000019	T.P. Pranger	Person	Q01 First owner
	00000020	N. van Hulst	Person	Q02 And/or owner
NL97 GILL 0298 3345 18 EUR	00000015	E. van der Gulik	Person	Q01 First owner
NL97 GILL 0298 3346 15 EUR	00000020	N. van Hulst	Person	Q01 First owner

## Summary relations

00000015 E. van der Gulik	Person	NL09 GILL 0298 3345 50 EUR	Q01 First owner
	Person	NL31 GILL 0298 3345 42 EUR	Q01 First owner
	Person	NL97 GILL 0298 3345 18 EUR	Q01 First owner
00000016 J.M.A. Vliegen	Person	NL12 GILL 0298 3345 93 EUR	Q04 Proxy
	Person	NL75 GILL 0298 3345 26 EUR	Q01 First owner
00000017 Top Consultancy	Corporate	NL53 GILL 0298 3345 34 EUR	Q01 Owner (00000018)
00000018 C.H. Geerling	Person	NL53 GILL 0298 3345 34 EUR	Q18 Director/majority share (00000017)
	Person	NL75 GILL 0298 3346 23 EUR	Q01 First owner
00000019 T.P. Pranger	Person	NL56 GILL 0298 3345 77 EUR	Q01 First owner

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Datasource: SQL201401/SQLSRV201401/TGB\_PSD2\_QST TGB\_PSD2\_QST

# TGB036 Content PSD2 test database

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	Person	NL78 GILL 0298 3345 69 EUR	Q01 First owner
00000020 N. van Hulst	Person	NL78 GILL 0298 3345 69 EUR	Q02 And/or owner
	Person	NL97 GILL 0298 3346 15 EUR	Q01 First owner
00000021 L.M.A. Kruisselbrink	Person	NL34 GILL 0298 3345 85 EUR	Q01 First owner
00000022 L. van der Stoel	Person	NL12 GILL 0298 3345 93 EUR	Q01 First owner
	Person	NL22 GILL 0298 3346 07 EUR	Q01 First owner

## Summary logon IDs

demo1	9900000018	00000015	E. van der Gulik
demo2	9900000040	00000018	C.H. Geerling
demo3	9900000021	00000021	L.M.A. Kruisselbrink
demo4	9900000016	00000016	J.M.A. Vliegen
demo5	9900000019	00000019	T.P. Pranger
demo6	9900000022	00000022	L. van der Stoel
demo7	9900000020	00000020	N. van Hulst

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Datasource: SQL201401/SQLSRV201401/TGB\_PSD2\_QST TGB\_PSD2\_QST



## Relation

Number: 00000015

Type: Person

Name: E. van der Gulik

Address: Stationsweg 38  
1852 LN HEILOO

Logon ID: demo1

Token: 9900000018

## Accounts

NL31 GILL 0298 3345 42	EUR	Q01 First owner	Balance: 4.347,05 CR
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## Transactions

21/01/2019	NL09GILL0298334550	E. van der Gulik	Reservering F14424141
07/02/2019	NL97GILL0298334518	E. van der Gulik	Reservering
11/02/2019	MT84MALT011000012345 MTLCAST001S	Olga Martinovic	1533600378937494

NL09 GILL 0298 3345 50	EUR	Q01 First owner	Balance: 3.552,17 CR
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## Transactions

18/01/2019	NL20FRBK9122782028	BankGiro Loterij	Uw prijs in de BankGiro lote
21/01/2019	NL31GILL0298334542	E. van der Gulik	Reservering F14424141
07/02/2019	NL12GILL0298334593	L. van der Stoel	Huur appartement
11/02/2019	NL97GILL0298334518	E. van der Gulik	Reservering
11/02/2019	IS1401592600765455107 30339	Bjarney Tryggvadottir Armuli 74 130 Reykjavik IS	GL5355271

# TGB036 Content PSD2 test database

Report date: 11/03/2019 10:27:49

NL97 GILL 0298 3345 18 EUR Q01 First owner

Balance: 7.958,45 CR

## Transactions

07/02/2019	NL31GILL0298334542	E. van der Gulik	Reservering
11/02/2019	NL09GILL0298334550	E. van der Gulik	Reservering

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Datasource: SQL201401/SQLSRV201401/TGB\_PSD2\_QST TGB\_PSD2\_QST

## Relation

Number: 00000016

Type: Person

Name: J.M.A. Vliegen

Address: Zandfort 103

4631 RN HOOGERHEIDE

Logon ID: demo4

Token: 9900000016

## Accounts

NL75 GILL 0298 3345 26	EUR	Q01 First owner	Balance: 69.864,33 CR
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## Transactions

18/01/2019	NL20FRBK9122782028	BankGiro Loterij	Uw prijs in de BankGiro lote
07/02/2019	NL97GILL0298334615	N. van Hulst	Faktuur 23462347
14/02/2019	NL97GILL0298334615	N. van Hulst	Kosten o.i.d.

NL12 GILL 0298 3345 93	EUR	Q04 Proxy	Balance: 46.735,00 CR
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## Transactions

07/02/2019	NL09GILL0298334550	E. van der Gulik	Huur appartement
11/02/2019	NL22GILL0298334607	L. van der Stoel	Splitsing storting

## Relation

Number: 00000017

Type: Corporate

Name: Top Consultancy

Address: Pastoor Hellemonsstraat 142

4731 HV OUDENBOSCH

Logon ID: n/a

Token: n/a

## Accounts

NL53 GILL 0298 3345 34	EUR	Q01 Owner (00000018)	Balance: 15.987,66 CR
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## Transactions

18/01/2019	NL20FRBK9122782028	BankGiro Loterij	Uw prijs in de BankGiro lote
11/02/2019	FR1420041010050500013 M02606	Toussaint Reault 15, Place du Jeu de Paume 18100 VIERZON FR	Vacance 2019
11/02/2019	NL75GILL0298334623	C.H. Geerling	Salaris januari 2019

## Relation

Number: 00000018

Type: Person

Name: C.H. Geerling

Address: Pastoor Hellemonsstraat 142  
4731 HV OUDENBOSCH

Logon ID: demo2

Token: 9900000040

## Accounts

NL75 GILL 0298 3346 23	EUR	Q01 First owner	Balance: 2.712,34 CR
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## Transactions

11/02/2019	NL53GILL0298334534	Top Consultancy	Salaris januari 2019
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NL53 GILL 0298 3345 34	EUR	Q18 Director/majority shareholder (00000017)	Balance: 15.987,66 CR
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## Transactions

18/01/2019	NL20FRBK9122782028	BankGiro Loterij	Uw prijs in de BankGiro lote
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11/02/2019	FR1420041010050500013 M02606	Toussaint Reault 15, Place du Jeu de Paume 18100 VIERZON FR	Vacance 2019
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11/02/2019	NL75GILL0298334623	C.H. Geerling	Salaris januari 2019
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## Relation

Number: 00000019

Type: Person

Name: T.P. Pranger

Address: Spaarnwoudelaan 104

5035 HN TILBURG

Logon ID: demo5

Token: 9900000019

## Accounts

NL78 GILL 0298 3345 69	EUR	Q01	First owner	Balance: 9.765,00 CR
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## Transactions

18/01/2019	NL20FRBK9122782028	BankGiro Loterij	Uw prijs in de BankGiro lote
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14/02/2019	NL70KNAB0078234189	Eneco	Gas en licht 2019-01
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NL56 GILL 0298 3345 77	EUR	Q01	First owner	Balance: 70.000,00 CR
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## Transactions

18/01/2019	NL20FRBK9122782028	BankGiro Loterij	Uw prijs in de BankGiro lote
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## Relation

Number: 00000020

Type: Person

Name: N. van Hulst

Address: Spaarnwoudelaan 104  
5035 HN TILBURG

Logon ID: demo7

Token: 9900000020

## Accounts

NL78 GILL 0298 3345 69	EUR	Q02 And/or owner	Balance: 9.765,00 CR
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## Transactions

18/01/2019	NL20FRBK9122782028	BankGiro Loterij	Uw prijs in de BankGiro lote
14/02/2019	NL70KNAB0078234189	Eneco	Gas en licht 2019-01

NL97 GILL 0298 3346 15	EUR	Q01 First owner	Balance: 135,67 CR
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## Transactions

07/02/2019	NL75GILL0298334526	J.M.A. Vliegen	Faktuur 23462347
14/02/2019	NL75GILL0298334526	J.M.A. Vliegen	Kosten o.i.d.

## Relation

Number: 00000022

Type: Person

Name: L. van der Stoel

Address: Camdenstraat 172

1276 AN BADEBOSDORP

Logon ID: demo8

Token: 9900000022

## Accounts

NL12 GILL 0298 3345 93	EUR	Q01	First owner	Balance: 46.735,00 CR
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## Transactions

07/02/2019	NL09GILL0298334550	E. van der Gulik	Huur appartement
12/02/2019	DK500400298334603	Kristine M. Nielsen Muusgarden 31 2960 Rungsted Kyst DK	Splitting system boat hire

NL22 GILL 0298 3346 07	EUR	Q01	First owner	Balance: 51.349,03 CR
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## Transactions

18/01/2019	NL20FRBK9122782028	BankGiro Loterij	Uw prijs in de BankGiro loterij
11/02/2019	NL12GILL0298334593	L. van der Stoel	Splitting storting
11/02/2019	NL86BLGW0802641555	C. de Goeij Van Schagenhof 113 2461 XB Ter Aar NL	Faktuur 20190400567
14/02/2019	NL70KNAB0078234189	NUON	Energielevering 2019-01





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