



Sample dataset

For Sandbox environment

Sample dataset for Sandbox environment

- Introduction
- Tests for Account Information Service - AIS
 - Example dataset
 - Get accounts
 - Get account
 - Get account balance
 - Get account transactions
- Tests for Payment Initiation Service - PIS
 - Initiating a payment
 - Get a payment
 - Get a payment status
 - Delete a payment
- Tests for Periodic Payment Initiation Service - PIS
 - Initiating a periodic payment
 - Get a periodic payment
 - Get a periodic payment status
 - Delete a periodic payment

Introduction

In this guide, you will find the necessary dataset to test your application(s) with our open APIs in the Sandbox environment.

Tests for Account Information Service - AIS

In this Account Information Service (AIS) are included the endpoints for the following functionalities:

- Get a list of consented accounts
- Get the detail of a consented account
- Get the balances of a consented account
- Get the transactions of a consented account

Example dataset

- Username: rabobank
- Password: rabobank
- Accounts linked to this user:

| Account | Currency | Comment |
|------------------|----------|--------------------------------------|
| BE56844000006188 | EUR | Main account |
| BE22844000040847 | EUR | Account with more than 10EUR balance |
| BE07999002123966 | EUR | Account not for psd2 |
| BE56844000006188 | EUR | Account with less than 10EUR balance |

Get accounts

GET /v1/accounts

This endpoint returns all identifiers of the accounts, to which an account access has been granted to through the /consents endpoint by the PSU.

Example

```
GET /berlingroup/v1/accounts HTTP/1.1
Connection: keep-alive
authorization: Bearer token
x-request-id: 935fae1b-d0d4-4af7-bda4-c442c5bd2b14
consent-id: 5e2ab6346312d80001197c0f
apiKey: fc447d75-8b98-4a61-96c8-46ee350e7bfa
signature: keyId="SN=4145e06efda52dc2,CA=EMAILADDRESS=rootCA@root.com, OU=DxP, O=SBS, L=
psu-ip-address: 192.168.18.69
x-sbs-env-port: 30200
content-type: application/json
tpp-signature-certificate: -----BEGIN CERTIFICATE-----MIIERzCCAy+gAwIBAgIIQUXgbv2lLcIwDQ
digest: SHA-256=47DEQpj8HBSa+/TImW+5JCeuQeRkm5NMpJWZG3hSuFU=
Host: api.acc.psd.rabobank.be
User-Agent: Apache-HttpClient/4.5.7 (Java/13.0.2)
```

Get account

GET /v1/accounts/{accountId}

Reads details about an account. It is assumed that a consent of the PSU to this access is already given and stored on the ASPSP system.

Example

```
GET /berlingroup/v1/accounts/5d6fdf6f9817d700010ec895 HTTP/1.1
Connection: keep-alive
Authorization: Bearer token
x-request-id: 58a721f1-d568-4dfd-80c2-da3c546c1b1f
consent-id: 5e2ab6346312d80001197c0f
apiKey: fc447d75-8b98-4a61-96c8-46ee350e7bfa
signature: keyId="SN=4145e06efda52dc2,CA=EMAILADDRESS=rootCA@root.com, OU=DxP, O=SBS, L=
psu-ip-address: 192.168.18.69
x-sbs-env-port: 30200
content-type: application/json
tpp-signature-certificate: -----BEGIN CERTIFICATE-----MIIERzCCAy+gAwIBAgIIQUXgbv2lLcIwDQ
digest: SHA-256=47DEQpj8HBSa+/TImW+5JCeuQeRkm5NMpJWZG3hSuFU=
Host: api.acc.psd.rabobank.be
User-Agent: Apache-HttpClient/4.5.7 (Java/13.0.2)
```

Get account balance

GET /v1/accounts/{accountId}/balances

Reads account data from a given account addressed by "accountId" to retrieve balances information.

Example

```
GET /berlingroup/v1/accounts/5d6fdf6f9817d700010ec895/balances HTTP/1.1
Connection: keep-alive
authorization: Bearer token
consent-id: 5e2ab6346312d80001197c0f
x-request-id: e7cf5c9c-9c09-4387-a01a-4d78498a4221
apiKey: fc447d75-8b98-4a61-96c8-46ee350e7bfa
signature: keyId="SN=4145e06efda52dc2,CA=EMAILADDRESS=rootCA@root.com, OU=DxP, O=SBS, L=
psu-ip-address: 192.168.18.69
x-sbs-env-port: 30200
content-type: application/json
tpp-signature-certificate: -----BEGIN CERTIFICATE-----MIIERzCCAy+gAwIBAgIIQUXgbv2lLcIwDQ
digest: SHA-256=47DEQpj8HBSa+/TImW+5JCeuQeRkm5NMpJWZG3hSuFU=
Host: api.acc.psd.rabobank.be
User-Agent: Apache-HttpClient/4.5.7 (Java/13.0.2)
```

Get account transactions

GET /v1/accounts/{accountId}/transactions

Reads transaction reports or transaction lists of a given account addressed by "accountId".

Example

```
GET /berlingroup/v1/accounts/5d6fdf6f9817d700010ec895/transactions?dateFrom=2000-12-12&dateTo=2000-12-12 HTTP/1.1
Connection: keep-alive
authorization: Bearer token
x-request-id: b55c9b1f-66e0-4a7e-9a12-15676c49c116
consent-id: 5e2ab6346312d80001197c0f
apiKey: fc447d75-8b98-4a61-96c8-46ee350e7bfa
signature: keyId="SN=4145e06efda52dc2,CA=EMAILADDRESS=rootCA@root.com, OU=DxP, O=SBS, L=
psu-ip-address: 192.168.18.69
x-sbs-env-port: 30200
content-type: application/json
tpp-signature-certificate: -----BEGIN CERTIFICATE-----MIIERzCCAy+gAwIBAgIIQUXgbv2lLcIwDQ
digest: SHA-256=47DEQpj8HBSa+/TImW+5JCeuQeRkm5NMpJWZG3hSuFU=
Host: api.acc.psd.rabobank.be
User-Agent: Apache-HttpClient/4.5.7 (Java/13.0.2)
```

Tests for Payment Initiation Service - PIS

Initiating a payment

POST /v1/payments/sepa-credit-transfers

This method is used to initiate a payment at the **ASPSP**. This method to initiate a payment initiation at the **ASPSP** must be sent with a JSON body.

The only payment product available i the "sepa-credit-transfers"

Example requests

```
Connection: keep-alive
Content-Type: application/json;charset=UTF-8
apiKey: b6f4f2c3-f34f-4623-a49e-5e35f4aecc2e
digest: SHA-256=IFCzgTYzeyoCpVY7oJJjTQ53tcttSUXjP5qtDjHkE4s=
signature: keyId="SN=1aea649b50d90ad4,CA=EMAILADDRESS=rootCA@root.com, OU=DxP, O=SBS, L=
x-request-id: f1d2044a-e17d-4b64-a1d8-b80d8714422c
X-SBS-ENV-PORT: 30200
PSU-IP-Address: 172.193.1.1
date: Sun, 06 Aug 2017 15:05:37 GMT
tpp-signature-certificate: -----BEGIN CERTIFICATE-----MIIERzCCAy+gAwIBAgIIGupkm1DZCtQwDQ
Content-Length: 478
Host: api.acc.psd.rabobank.be
User-Agent: Apache-HttpClient/4.5.7 (Java/13.0.2)
```

```
{
  "endToEndIdentification": "END-TO-END-ID",
  "instructedAmount": {
    "currency": "EUR",
    "amount": "10.50"
  },
  "debtorAccount": {
    "iban": "BE12844015545992"
  },
  "creditorAddress": {
    "country": "BE",
    "street": "kleber"
  },
  "creditorName": "Dupont",
  "creditorAccount": {
    "iban": "BE57844012465335",
    "msidn": "049961165"
  },
  "remittanceInformationUnstructured": "toto"
}
```

Get a payment

GET /v1/payments/sepa-credit-transfers/{paymentId}

This endpoint allows to return the content of a payment object (with his paymentId).

Example

```
GET /berlingroup/v1/payments/sepa-credit-transfers/5e2ac4df09b5b70001f66e3b
Connection: keep-alive
apiKey: b6f4f2c3-f34f-4623-a49e-5e35f4aecc2e
x-request-id: 0e21c86e-612e-4ce6-9a10-72d130e47b39
X-SBS-ENV-PORT: 30200
Content-Type: application/json;charset=UTF-8
PSU-IP-Address: 172.193.1.1
digest: SHA-256=47DEQpj8HBSa+/TImW+5JCeuQeRkm5NMpJWZG3hSuFU=
date: Sun, 06 Aug 2017 15:05:37 GMT
signature: keyId="SN=1aea649b50d90ad4,CA=EMAILADDRESS=rootCA@root.com,OU=DxP,O=SBS,L=
tpp-signature-certificate: -----BEGIN CERTIFICATE-----MIIERzCCAy+gAwIBAgIIGupkm1DZCtQwDQ
Host: api.acc.psd.rabobank.be
User-Agent: Apache-HttpClient/4.5.7 (Java/13.0.2)
```

Get a payment status

GET /v1/payments/sepa-credit-transfers/{paymentId}/status

This endpoint allows to get an initiated payment status on the ASPSP.

Example

```
GET /berlingroup/v1/payments/sepa-credit-transfers/5e2ac4df09b5b70001f66e3b/status
Connection: keep-alive
Authorization: Bearer eyJhbGciOiJIaXkiLCJlbnMiOiJBMTI4Q0JDLUhTMjU2In0..M7p3U3_3ku88tXHx3r
apiKey: b6f4f2c3-f34f-4623-a49e-5e35f4aecc2e
x-request-id: 7fbcf628-c825-4b38-a27c-2a7b305a8f19
X-SBS-ENV-PORT: 30200
Content-Type: application/json;charset=UTF-8
PSU-IP-Address: 172.193.1.1
digest: SHA-256=47DEQpj8HBSa+/TImW+5JCeuQeRkm5NMpJWZG3hSuFU=
date: Sun, 06 Aug 2017 15:05:37 GMT
signature: keyId="SN=1aea649b50d90ad4,CA=EMAILADDRESS=rootCA@root.com,OU=DxP,O=SBS,L=
tpp-signature-certificate: -----BEGIN CERTIFICATE-----MIIERzCCAy+gAwIBAgIIGupkm1DZCtQwDQ
Host: api.acc.psd.rabobank.be
User-Agent: Apache-HttpClient/4.5.7 (Java/13.0.2)
```

Delete a payment

DELETE /v1/payments/sepa-credit-transfers/{paymentId}

This endpoint allows to delete a payment on the ASPSP.

Example

```
DELETE /berlingroup/v1/payments/sepa-credit-transfers/5e2ac65d09b5b70001f66e44
Connection: keep-alive
apiKey: b6f4f2c3-f34f-4623-a49e-5e35f4aecc2e
x-request-id: 39e6b0f4-7b96-4ca9-bf6c-f56ca602f893
signature: keyId="SN=1aea649b50d90ad4,CA=EMAILADDRESS=rootCA@root.com, OU=DxP, O=SBS, L=
X-SBS-ENV-PORT: 30200
Content-Type: application/json;charset=UTF-8
PSU-IP-Address: 172.193.1.1
digest: SHA-256=47DEQpj8HBSa+/TImW+5JCeuQeRkm5NMpJWZG3hSuFU=
date: Sun, 06 Aug 2017 15:05:37 GMT
tpp-signature-certificate: -----BEGIN CERTIFICATE-----MIIERzCCAy+gAwIBAgIIGupkm1DZCtQwDQ
Content-Length: 0
Host: api.acc.psd.rabobank.be
User-Agent: Apache-HttpClient/4.5.7 (Java/13.0.2)
```

Tests for Payment Initiation Service - PIS

Initiating a periodic payment

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

This method is used to initiate a periodic payment at the **ASPSP**. This method to initiate a periodic payment initiation at the **ASPSP** must be sent with a JSON body.

Example requests

```
Connection: keep-alive
Content-Type: application/json;charset=UTF-8
apiKey: b6f4f2c3-f34f-4623-a49e-5e35f4aecc2e
digest: SHA-256=6Qd0jd0MwyDI1phPjI80t3Gv1WpFsUIFefICu3doX4o=
signature: keyId="SN=1aea649b50d90ad4,CA=EMAILADDRESS=rootCA@root.com,OU=DxP,O=SBS,L=
x-request-id: 213845bd-ba55-485b-985f-c6c1627e1bd0
X-SBS-ENV-PORT: 30200
PSU-IP-Address: 172.193.1.1
date: Sun, 06 Aug 2017 15:05:37 GMT
tpp-signature-certificate: -----BEGIN CERTIFICATE-----MIIERzCCAy+gAwIBAgIIGupkm1DZCtQwDQ
Content-Length: 537
Host: api.acc.psd.rabobank.be
User-Agent: Apache-HttpClient/4.5.7 (Java/13.0.2)
```

```
{
  "endToEndIdentification": "END-TO-END-ID",
  "instructedAmount": {
    "currency": "EUR",
    "amount": "10.50"
  },
  "debtorAccount": {
    "iban": "BE12844015545992"
  },
  "creditorAddress": {
    "country": "BE",
    "street": "kleber"
  },
  "creditorName": "Dupont",
  "creditorAccount": {
    "iban": "BE57844012465335"
  },
  "remittanceInformationUnstructured": "toto",
  "startDate": "2020-01-29",
  "dayOfExecution": "12",
  "frequency": "monthly"
}
```

Get a periodic payment

GET /v1/periodic-payments/sepa-credit-transfers/{paymentId}

This endpoint allows to return the content of a periodic payment object (with his paymentId).

Example

```
GET /berlingroup/v1/periodic-payments/sepa-credit-transfers/5e2ac63709b5b70001f66e43
Connection: keep-alive
apiKey: b6f4f2c3-f34f-4623-a49e-5e35f4aecc2e
x-request-id: 2a9402c7-0954-439b-a3a8-82a0914ecf9f
X-SBS-ENV-PORT: 30200
Content-Type: application/json;charset=UTF-8
PSU-IP-Address: 172.193.1.1
digest: SHA-256=47DEQpj8HBSa+/TImW+5JCeuQeRkm5NMpJWZG3hSuFU=
date: Sun, 06 Aug 2017 15:05:37 GMT
signature: keyId="SN=1aea649b50d90ad4,CA=EMAILADDRESS=rootCA@root.com,OU=DxP,O=SBS,L=
tpp-signature-certificate: -----BEGIN CERTIFICATE-----MIIERzCCAy+gAwIBAgIIGupkm1DZCtQwDQ
Host: api.acc.psd.rabobank.be
User-Agent: Apache-HttpClient/4.5.7 (Java/13.0.2)
```

Get a periodic payment status

GET /v1/periodic-payments/sepa-credit-transfers/{paymentId}/status

This endpoint allows to get an initiated periodic payment status on the ASPSP.

Example

```
GET /berlingroup/v1/periodic-payments/sepa-credit-transfers/5e2ac63709b5b70001f66e43/sta
Connection: keep-alive
apiKey: b6f4f2c3-f34f-4623-a49e-5e35f4aecc2e
x-request-id: 6423b485-cd27-4ece-99a6-8e0324a5dff3
X-SBS-ENV-PORT: 30200
Content-Type: application/json;charset=UTF-8
PSU-IP-Address: 172.193.1.1
digest: SHA-256=47DEQpj8HBSa+/TImW+5JCeuQeRkm5NMpJWZG3hSuFU=
date: Sun, 06 Aug 2017 15:05:37 GMT
signature: keyId="SN=1aea649b50d90ad4,CA=EMAILADDRESS=rootCA@root.com,OU=DxP,O=SBS,L=
tpp-signature-certificate: -----BEGIN CERTIFICATE-----MIIERzCCAy+gAwIBAgIIGupkm1DZCtQwDQ
Host: api.acc.psd.rabobank.be
User-Agent: Apache-HttpClient/4.5.7 (Java/13.0.2)
```

Delete a periodic payment

DELETE /v1/periodic-payments/sepa-credit-transfers/{paymentId}

This endpoint allows to delete a periodic payment on the ASPSP.

Example

```
DELETE /berlingroup/v1/periodic-payments/sepa-credit-transfers/5e2ac65d09b5b70001f66e44
Connection: keep-alive
apiKey: b6f4f2c3-f34f-4623-a49e-5e35f4aecc2e
x-request-id: 39e6b0f4-7b96-4ca9-bf6c-f56ca602f893
signature: keyId="SN=1aea649b50d90ad4,CA=EMAILADDRESS=rootCA@root.com, OU=DxP, O=SBS, L=
X-SBS-ENV-PORT: 30200
Content-Type: application/json;charset=UTF-8
PSU-IP-Address: 172.193.1.1
digest: SHA-256=47DEQpj8HBSa+/TImW+5JCeuQeRkm5NMpJWZG3hSuFU=
date: Sun, 06 Aug 2017 15:05:37 GMT
tpp-signature-certificate: -----BEGIN CERTIFICATE-----MIIERzCCAy+gAwIBAgIIGupkm1DZCtQwDQ
Content-Length: 0
Host: api.acc.psd.rabobank.be
User-Agent: Apache-HttpClient/4.5.7 (Java/13.0.2)
```