

## Documentation of the XS2A test environment „TPP Sandbox“

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## 1 Introduction

This documentation provides necessary test data for Third-Party-Providers (TPP). The provided system and test data description follows best practices of the NextGenPSD2 Implementation Support Programme (NISP)<sup>1</sup>. It refers to the Version 1.3.0 of the NISP documentation.

### 1.1 Usage of signatures and certificates

The usage of signatures and certificates is mandatory for the usage of all endpoints in the sandbox. Valid test certificates can be retrieved e.g from the Bundesdruckerei GmbH<sup>2</sup>. During sandbox testing no validation of the certificate path will be performed.

### 1.2 Daily reset

Dynamically created resources like payments and consents will be delete daily at 03:00.

### 1.3 Specific options and limitations in this sandbox

The following limitations exist during sandbox testing:

- Created consents cannot be used afterwards for access to test accounts. Dynamically created consent-ids are used for the authorization flow only. Mocked consents are described in 2.6.
- The payment XML structure will not be validated. Please be informed that the submitted standing orders or payments are not taken into account when querying a transaction list.
- This document contains specific remarks to the test cases of the NISP document.

### 1.4 Soap-UI-Examples

As additional offer the documentation package contains Soap-UI example requests. You can import the XML-File using the Soap-UI tool which you can retrieve via <https://www.soapui.org/>. To run the examples, you will have to provide the header fields "Signature" and "TPP-Signature-Certificate" yourself.

Be informed that we will not provide any support for Soap-UI. Furthermore, the examples are meant to be examples and not a technical documentation.

The technical documentation for **NextGenPSD2 Framework Version 1.3** can be retrieved from URL of Documentation: <https://p1.xs2a-doc.atruvia.de>  
Fallback URL of Documentation: <https://p2.xs2a-doc.atruvia.de>

The sandbox is available at the following URLs

<https://p1.xs2a-doc.atruvia.de/sandbox/psd2>  
<https://p2.xs2a-doc.atruvia.de/sandbox/psd2> (Fallback)

Example: <https://p1.xs2a-doc.atruvia.de/sandbox/psd2/v1/consents>

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<sup>1</sup> Visit <https://nisp.online/tppsandbox/> to download a documentation of NISP common testing framework reference. To access the url a previous login is necessary.

<sup>2</sup> Visit <https://www.bundesdruckerei.de/de/PSD2> for further information  
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## **2 Testdata description**

### **2.1 PSU profiles**

The NISP documentation describes the support of four known authentication types of the berlin group. This sandbox supports different SCA methods per authentication type. The following tags contain the name of the SCA method followed by the BerlinGroup authentication type.

Tag	Value	authenticationMethodIds
psuldWith(SecureGo / PUSH_OTP + SecureGo plus (Direktfreigabe) / PUSH_OTP)	VRK1234567890SECGO-PLUS	944 + 946
psuldWith(SecureGo plus (Direktfreigabe) / PUSH_OTP)	VRK1234567890SECPLUS	946
psuldWith(Smart Tan Plus HHD 1.4 / CHIP_OTP + Smart Tan Optic/USB HHD 1.4 / CHIP_OTP + Smart Tan Photo / PHOTO_OTP)	VRK1234567890SMART	962 + 972 + 982
psuldWith(Smart Tan Plus HHD 1.4 / CHIP_OTP + Smart Tan Photo / PHOTO_OTP)	VRK1234567890SMART2	962 + 982
psuldWith(ALL)	VRK1234567890ALL	944 + 946+ 962 + 972 + 982
psuldBlockedSca(SecureGo / PUSH_OTP + SecureGo plus (Direktfreigabe) / PUSH_OTP)	VRK1234567890SECGO-PLUSBLOCKED	944 + 946+ 962 + 972 + 982
psuldBlockedSca(SecureGo plus (Direktfreigabe) / PUSH_OTP)	VRK1234567890SECPLUSBLOCKED	944 + 946
PsuldBlockedSca(Smart Tan Plus HHD 1.4 / CHIP_OTP + Smart Tan Optic/USB HHD 1.4 / CHIP_OTP + Smart Tan Photo / PHOTO_OTP)	VRK1234567890SMARTBLOCKED	962 + 972 + 982
PsuldBlockedSca(Smart Tan Plus HHD 1.4 / CHIP_OTP + Smart Tan Photo / PHOTO_OTP)	VRK1234567890SMART2BLOCKED	962 + 982
psuldFinalisedSca(SecureGo / PUSH_OTP + SecureGo plus (Direktfreigabe) / PUSH_OTP)	VRK1234567890DECOUPLEDFIN	944 + 946
psuldFailedSca(SecureGo / PUSH_OTP + SecureGo plus (Direktfreigabe) / PUSH_OTP)	VRK1234567890DECOUPLEDFAIL	944 + 946
psuldPendingSca(SecureGo / PUSH_OTP + SecureGo plus (Direktfreigabe) / PUSH_OTP)	VRK1234567890DECOUPLEDPEN	944 + 946

psuldBlockedSca(SecureGo / PUSH_OTP + SecureGo plus (Direktfreigabe) / PUSH_OTP)	VRK1234567890DECOUPLEDLOCKED	944 + 946
psuldFinalisedSca(SecureGo plus (Direktfreigabe) / PUSH_OTP)	VRK1234567890DECOUPLED2FIN	946
psuldFailedSca(SecureGo plus (Direktfreigabe) / PUSH_OTP)	VRK1234567890DECOUPLED2FAIL	946
psuldPendingSca(SecureGo plus (Direktfreigabe) / PUSH_OTP)	VRK1234567890DECOUPLED2PEN	946
psuldBlockedSca(SecureGo plus (Direktfreigabe) / PUSH_OTP)	VRK1234567890DECOUPLED2BLOCKED	946

## 2.2 Mocked credentials for one factor and SCA Methods

Tag	Value
correctPassword	password
correctOTP	123456

## 2.3 Payment initiation

### Important notice:

Only valid pains in accordance with <https://www.ebics.de/de/datenformate> are accepted in the sandbox.

XSD validation takes place directly when payments are submitted in the sandbox.

Tag	Value
ibanPaymentSuccessfulWithSca	DE394999996000000005111
ibanPaymentSuccessfulScaExemption	DE554999996000000005114
ibanPaymentPendingNoFunds	DE284999996000000005115
ibanPaymentFailedWithScaSuccessful	DE984999996000000005116
ibanExecutionDateInvalid	DE714999996000000005117

## 2.4 Establishing Consents

Tag	Value
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ibanConsentSuccessfulWithSca	DE87499999600000005120
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## 2.5 Account access

Tag	Value
account_1	DE45499999600000005100
account_2	DE18499999600000005101
account_3	DE88499999600000005102
account_4	DE61499999600000005103
account_5	DE34499999600000005104
account_6	DE07499999600000005105
account_7	DE77499999600000005106
account_8	DE23499999600000005108
account_9	DE93499999600000005109
ibanPaymentSuccessfulWithSca	DE39499999600000005111
ibanPaymentSuccessfulScaExemption	DE55499999600000005114
ibanPaymentPendingNoFunds	DE28499999600000005115
ibanPaymentFailedWithScaSuccessful	DE98499999600000005116
ibanExecutionDateInvalid	DE71499999600000005117
ibanWithStandingOrders	DE60499999600000005121
ibanWithHighVolumes	DE60499999600000005121

## 2.6 Mocked consents

Tag	Value
consentIdValid	CONSENTVALID
consentIdExpired	CONSENTEXPIRED
consentInvalidAccount	CONSENTINVALIDACCOUNT
consentIdInvalidBalances	CONSENTINVALIDBALANCES
consentIdInvalidTransactions	CONSENTINVALIDTRANSACTIONS
consentIdTerminated	CONSENTTERMINATED
consentIdFrequencyExceeded	CONSENTFREQUENCYEXCEEDED
consentIdRevokedbyPSU	CONSENTREVOKEDBYPUSU

## 2.7 Confirmation of funds

Tag	Value
ibanNoFundsAvailable	DE274999996000000005133
ibanFundsAvailable	DE974999996000000005134
ibanTppNotActivated	DE704999996000000005135

## 3 Test scenarios

The following NISP test scenarios are supported in this sandbox. Be advised to read the remarks for the scenarios. They may contain deviations and limitations not described in the NISP documentation.

### 3.1 Payment Initiation Service (PIS)

- PIS/Products/G001  
*Remark:* Payments without TAN are only possible with PSU-ID VRK1234567890ALL.
- PIS/Products/G002
- PIS/Products/G003
- PIS/Cancel/G001a  
*Remark:* Payments that have been successfully authorised can also be cancelled if it is not a payment with scheduling in the future. pain.001-cross-border-credit-transfers cannot be cancelled. All not completely authorized payments of all payment-products may be canceled without SCA.
- PIS/Cancel/G001b  
*Remark:* Since all payment initiations without successful SCA may be canceled without SCA an additional precondition is to successfully authorize the payment and cancel it afterwards.
- PIS/PmtNotExec/G001  
*Remark:* Be informed that you will not receive a fundsAvailable attribute.
- PIS/PmtNotExec/G002a
- PIS/Error/F001a
- PIS/Error/F002

### 3.2 Account Information Service (AIS)

**Remark:** For ibanWithHighVolumes (DE60499999600000000005121), in addition to the provision of the intended use in "remittanceInformationUnstructured" with a maximum of 140 characters a provision of the intended use without restrictions for "remittanceInformationUnstructuredArray".

- AIS/Consent/G001b  
*Remark:* The last step "GetConsentStatus" will not work in this sandbox.
- AIS/Account/G001a  
*Remark:* Be informed that the query parameter withBalance will be ignored.
- AIS/Account/G002a  
*Remark:* Be informed that the query parameter withBalance will be ignored.

- AIS/Account/G003a
- AIS/Account/G004a  
*Remark:* Be informed that the query parameter withBalance will be ignored. This endpoint only produces json.
- AIS/Account/G004c  
*Remark:* Be informed that the query parameter withBalance will be ignored. You will receive a pagination link in the response.
- AIS/Account/G004e
- AIS/Account/G006a  
*Remark:* ownerName is supplied with each account
- AIS/Error/F001a
- AIS/Error/F002a  
*Remark:* The error code will be 429.
- AIS/Error/F003a
- AIS/Error/F004a
- AIS/Error/F005a
- AIS/Error/F006a
- AIS/Error/F007a

### 3.3 Confirmation of Funds (PIIS)

- PIIS/Funds/G001
- PIIS/Funds/G002
- PIIS/Error/F001

### 3.4 Strong Customer Authentication

- SCA/Flows/G001a  
*Remark:* TPP-Redirect-Preferred is not supported.
- SCA/Flows/G002a  
*Remark:* Payments without TAN are only possible with PSU-ID VRK1234567890ALL.
- SCA/Error/G001a