

III.4.6.3.10.1eng Data and specifications for XS2A interface connectivity tests

Limitation

- The redirect to SCA for the test system does not address a real "Consens app". In the test, the SCA (and thus the interaction with the PSU) is simulated according to the test requirement.
- The TEST system operates autonomously and is not connected to the core banking system. The respective answers are statically simulated according to the test cases.

Services

Concrete services of the XS2A interface in good and error cases are considered. Not all permitted call variants are spread. The aim is to achieve exemplary coverage that enables the TPP to check its implementation of XS2A in the TEST system.

	TPP	Service	Description Test Case	g/b ¹⁾	Expected Outcome ²⁾	Testing Data ³⁾	Outcome / Annotations
1	AIS ^{a)}	ESTABLISH ACCOUNT INFORMATION CONSENT	Approval PSU, for easy retrieval of account balances to an account list.	g	OK - positive feedback	PSU-ID = XS2AT001	<p>Bsp. Antwort (JSON)</p> <pre>{ "consentStatus": "received", "consentId": "f686fa66-b364-4e45-857f-064b1353530b", "_links": { "scaRedirect": { "href": "http://eb1.dev fintechgroup.com/tristan.xcomtest/xs2a-sca/DEBIW001/consents/f686fa66-b364-4e45-857f-064b1353530b" }, "self": { "href": "/tristan.xcomtest/xs2a-test/DEBIW001/v1/consents/f686fa66-b364-4e45-857f-064b1353530b" }, "status": { "href": "/tristan.xcomtest/xs2a-test/DEBIW001/v1/consents/f686fa66-b364-4e45-857f-064b1353530b/status" } } }</pre>

2		PSU consent to multiple retrieval of transaction information for an account.	g	OK - positive feedback	PSU-ID = XS2AT001	see 1)
3		Consent not given by PSU	b	NOK - negative feedback	PSU-ID != XS2AT001	<p>Bsp Antwort (JSON)</p> <pre>{ "consentStatus": "received", "consentId": "804d540f-8021-4292-8a32-fe47a66361d2", "_links": { "scaRedirect": { "href": "http://eb1.dev.fintechgroup.com/tristan.xcomtest/xs2a-sca/DEBIW001/consents/804d540f-8021-4292-8a32-fe47a66361d2" }, "self": { "href": "/tristan.xcomtest/xs2a-test/DEBIW001/v1/consents/804d540f-8021-4292-8a32-fe47a66361d2" } }, "status": { "href": "/tristan.xcomtest/xs2a-test/DEBIW001/v1/consents/804d540f-8021-4292-8a32-fe47a66361d2/status" } }</pre>
4	GET ACCOUNT DETAILS OF THE LIST OF ACCESSIBLE ACCOUNTS	TPP asks for details about the account, with existing	g	OK - detailed information	accountID = valid AccountID (see Testing Data)	<p>Bsp. Antwort JSON</p> <pre>{ "account": { "resourceId": "m6z1-iHlhxK2E4YkhT0N1tNGUe3S1SopU6LkQWcGbMg=", "iban": "DE12101308008000310015", "id": "xs2a-DEBIW001-804d540f-8021-4292-8a32-fe47a66361d2" } }</pre>

		customer consent.		ConsentID = f686fa66-b364-4e45-857f-064b1353530b	<pre> "currency": "EUR", "status": "enabled", "_links": { "balances": { "href": "/tristan.xcomtest/xs2a-test/DEBIW001/v1/accounts/m6z1- iHlxK2E4YkhT0N1tNGUe3S1SopU6LkQWcGbMg=/m6z1- iHlxK2E4YkhT0N1tNGUe3S1SopU6LkQWcGbMg=/balances" }, "transactions": { "href": "/tristan.xcomtest/xs2a-test/DEBIW001/v1/accounts/m6z1- iHlxK2E4YkhT0N1tNGUe3S1SopU6LkQWcGbMg=/transactions" } } } </pre>
5		TPP asks for details of a list of accounts, if customer consent exists	g	OK - detailed information	<p>Bsp. Antwort (JSON)</p> <pre> { "accounts": [{ "resourceId": "m6z1- iHlxK2E4YkhT0N1tNGUe3S1SopU6LkQWcGbMg=", "iban": "DE12101308008000310015", "currency": "EUR", "status": "enabled", "_links": { "balances": { "href": "/tristan.xcomtest/xs2a-test/DEBIW001/v1/accounts/m6z1- iHlxK2E4YkhT0N1tNGUe3S1SopU6LkQWcGbMg=/balances" }, "transactions": { "href": "/tristan.xcomtest/xs2a-test/DEBIW001/v1/accounts/m6z1- iHlxK2E4YkhT0N1tNGUe3S1SopU6LkQWcGbMg=/transactions" } } }, { "resourceId": "pkb8kDrh1zLkrIcq8vb980gfsSMaCNNt0OVrzpzzhZ4=", "iban": "DE17101308008000310022", }] } </pre>

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  },
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OVrzpzzhZ4=/transactions"
  }
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    },
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O3-VjvYSh50=/transactions"
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  }
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}
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    },
    "transactions": {
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dNkl7_vMv-w=/transactions"
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  }
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    "balances": {
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    },
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    }
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        },
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    "currency": "EUR",
    "status": "enabled",
    "_links": {
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        },
        "transactions": {
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WyFFGCVKME=/transactions"
        }
    }
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{
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    "currency": "EUR",
    "status": "enabled",
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QLab-2fmxKP7r4=/transactions"
        }
    }
}
```

						}	
6		TPP asks for account details without existing customer consent.	b	NOK - negative feedback	unknown ConsentID	<p>Bsp. Antwort (JSON)</p> <pre>{ "tppMessages": [{ "category": "ERROR", "code": "CONSENT_INVALID", "text": "The consent was created by this TPP but is not valid for the addressed service/resource." }, { "category": "ERROR", "code": "CONSENT_INVALID", "text": "Consent-ID [f686fa66-b364-4e45-857f-064b1353530a] not authorized" }] }</pre>	
7	GET BALANCES FOR A GIVEN ACCOUNT	TPP queries the current balance with existing customer consent.	g	accountID = valid AccountID (see testing data) ConsentID = f686fa66-b364-4e45-857f-064b1353530b	OK - account balance	<ul style="list-style-type: none"> No prebooking items are delivered. <p>Bsp. Antwort (JSON)</p> <pre>{ "account": { "iban": "DE12101308008000310015", "currency": "EUR" }, "balances": [{ "balanceAmount": { "currency": "EUR", "amount": 1234.56 }, "balanceType": "closingBooked", "referenceDate": "2019-03-03" }] }</pre>	

]	}
8		TPP queries current balance without existing customer consent.	b	NOK - negative feedback	unknown ConsentID	Bsp. Antwort (JSON) <pre>{ "tppMessages": [{ "category": "ERROR", "code": "CONSENT_INVALID", "text": "The consent was created by this TPP but is not valid for the addressed service/resource." }, { "category": "ERROR", "code": "CONSENT_INVALID", "text": "Consent-ID [f686fa66-b364-4e45-857f-064b1353530a] not authorized" }] }</pre>	
9	GET TRANSACTION INFORMATION FOR A GIVEN ACCOUNT	TPP requests transaction details for an account within the permitted period, with existing customer consent.	g	OK - account information	accountID = valic AccountID (see testing data) ConsentID = f686fa66-b364-4e45-857f-064b1353530b	<ul style="list-style-type: none"> The scope of information corresponds to the scope displayed in online banking for transactions. Format: MT940 Bsp. Antwort (MT940) :20:STARTUMS :25:89999999/1234567810 :28C:0 :60F:C190220EUR1134,56 :62F:C190220EUR1234,56 -	
10		TPP retrieves transaction	b	NOK - negative	unknown ConsentID	Bsp. Antwort (JSON) {	

		n details for an account within the permitted time period, without existing customer consent	feedback		<pre>"tppMessages": [{ "category": "ERROR", "code": "CONSENT_INVALID", "text": "The consent was created by this TPP but is not valid for the addressed service/resource." }, { "category": "ERROR", "code": "CONSENT_INVALID", "text": "Consent-ID [f686fa66-b364-4e45-857f-064b1353530a] not authorized" }]</pre>	
1 1		TPP requests transaction details for an account outside the allowed time period.	b	NOK - negative feedback	<ul style="list-style-type: none"> Query period starts before 90-day limit <p>Bsp. Antwort (JSON)</p> <pre>{ "tppMessages": [{ "category": "ERROR", "code": "PERIOD_INVALID", "text": "Requested time period out of bound." }, { "category": "ERROR", "code": "PERIOD_INVALID", "text": "dateFrom [2018-01-01] more than 90 days ago" }] }</pre>	
1 2	FCS b)	GET CONFIRMATION ON THE AVAILABILITY OF FUNDS	Availability query, amount available, permission	g	OK - answer: YES	<p>accountID = valid AccountID (see testing data)</p> <p>true</p> <ul style="list-style-type: none"> The marking by PSU that FCS may perform availability queries is outside the interface.

		from PSU available.		ConsentID = f686fa66-b364-4e45-857f-064b1353530b amount < 1000 EUR	
1 3		Availability query, amount not available, permission by PSU available	g	OK - answer: NO accountID = valid AccountID (see testing data) ConsentID = f686fa66-b364-4e45-857f-064b1353530b Betrag >= 1000 EUR	<ul style="list-style-type: none"> The marking by PSU that FCS may perform availability queries is outside the interface. <p>false</p>
1 4	PIS ^c)	INITIATION OF A SINGLE PAYMENT	Payment initiation simple credit transfer	g	<p>Bsp. Antwort (JSON)</p> <pre>{ "transactionStatus": "RCVD", "paymentId": "66e06e75-16b2-4c71-ad19-df31e3038ec0", "_links": { "scaRedirect": { "href": "http://eb1.dev.fintechgroup.com/tristan.xcomtest/xs2a-sca/DEBIW001/payments/66e06e75-16b2-4c71-ad19-df31e3038ec0" }, "self": { "href": "/tristan.xcomtest/xs2a-test/DEBIW001/v1/payments/pain.001-sepa-credit-transfers/66e06e75-16b2-4c71-ad19-df31e3038ec0" } } }</pre>

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            df31e3038ec0/status"
        }
      }
    }
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Bsp. Antwort (pain.001)

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1 5		Payment initiation simple credit transfer, rejection (e.g. due to	b	NOK - negative feedback	PSU-ID = XS2AT002

		insufficient account balance)				<pre> }, { "category": "ERROR", "code": "PAYMENT_FAILED", "text": "account balance not covered" }] } } } </pre>
1 6		Payment initiation simple credit transfer, no SCA	b	NOK - negative feedback	PSU-ID = XS2AT003	<p>Bsp. Antwort (JSON)</p> <pre> { "tppMessages": [{ "category": "ERROR", "code": "SERVICE_BLOCKED", "text": "This service is not reachable for the addressed PSU due to a channel independent blocking by the ASPSP. Additional information might be given by the ASPSP." }, { "category": "ERROR", "code": "SERVICE_BLOCKED", "text": "no SCA for XS2AT003" }] } </pre>
1 7	INITIATION OF A FUTURE DATED SINGLE PAYMENT	Payment initiation simple credit transfer with execution date	g	OK - positive feedback	PSU-ID = XS2AT001 paymentID = de12c1e0-a98e-4df3-94cd-ebf5a7d52bbb	<p>Bsp. Antwort (JSON)</p> <pre> { "transactionStatus": "RCVD", "paymentId": "de12c1e0-a98e-4df3-94cd-ebf5a7d52bbb", "_links": { "scaRedirect": { "href": "http://eb1.dev.fintechgroup.com/tristan.xcomtest/xs2a-sca/DEBIW001/payments/de12c1e0-a98e-4df3-94cd-ebf5a7d52bbb" }, "self": { "href": "http://eb1.dev.fintechgroup.com/tristan.xcomtest/xs2a-sca/DEBIW001/payments/de12c1e0-a98e-4df3-94cd-ebf5a7d52bbb" } } } </pre>

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        "href": "/tristan.xcomtest/xs2a-test/DEBIW001/v1/periodic-
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ebf5a7d52bbb"
},
"status": {
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payments/pain.001-sepa-credit-transfers/de12c1e0-a98e-4df3-94cd-
ebf5a7d52bbb/status"
}
}
```

Bsp. Antwort (pain.001)

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      <NbOfTxns>1</NbOfTxns>
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1 8		Payment initiation simple	b	NOK - negative	PSU-ID = XS2AT004	Bsp. Antwort (JSON) {

		credit transfer with inadmissible date (in the past or too far in the future)	feedback		<pre> "tppMessages": [{ "category": "ERROR", "code": "EXECUTION_DATE_INVALID", "text": "The requested execution date is not a valid execution date for the ASPSP." }, { "category": "ERROR", "code": "EXECUTION_DATE_INVALID", "text": "execution date invalid" }] } </pre>
1 9	INITIATION OF A BULK PAYMENT	Triggering of collective credit transfer	g	OK - positive feedback	<p>Bsp. Antwort (JSON)</p> <pre> { "transactionStatus": "RCVD", "paymentId": "ce6b9e02-57a7-45ab-8af9-6d4725f698c5", "_links": { "scaRedirect": { "href": "http://eb1.dev.fintechgroup.com/tristan.xcomtest/xs2a-sca/DEBIW001/payments/ce6b9e02-57a7-45ab-8af9-6d4725f698c5" }, "self": { "href": "/tristan.xcomtest/xs2a-test/DEBIW001/v1/bulk-payments/pain.001-sepa-credit-transfers/ce6b9e02-57a7-45ab-8af9-6d4725f698c5" } }, "status": { "href": "/tristan.xcomtest/xs2a-test/DEBIW001/v1/bulk-payments/pain.001-sepa-credit-transfers/ce6b9e02-57a7-45ab-8af9-6d4725f698c5/status" } } </pre> <p>Bsp. Antwort (pain.001)</p>

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				<p>Bsp. Antwort (pain.001)</p> <pre><?xml version="1.0" encoding="UTF-8"?>\n<Document xmlns="urn:iso:std:iso:20022:tech:xsd:pain.001.001.03">\n <CstmrCdtTrfInitn>\n <GrpHdr>\n <MsgId>MIPI-123456789RI-123456789</MsgId>\n <CreDtTm>2017-02-14T20:23:34.000Z</CreDtTm>\n <NbOfTxns>2</NbOfTxns>\n <CtrlSum>247.96</CtrlSum>\n <InitgPty>\n <Nm>PaymentInitiator</Nm>\n </InitgPty>\n </GrpHdr>\n <PmtInfn>\n <PmtInfld>BIPI-123456789RI-123456789</PmtInfld>\n <PmtMtd>TRF</PmtMtd>\n <NbOfTxns>2</NbOfTxns>\n <CtrlSum>247.96</CtrlSum>\n <PmtTpInf>\n <SvcLvl>\n <Cd>SEPA</Cd>\n </SvcLvl>\n </PmtTpInf>\n <ReqdExctnDt>1999-01-01</ReqdExctnDt>\n <Dbtr>\n <Nm>PSU Name</Nm>\n </Dbtr>\n <DbtrAcct>\n <Id>\n <IBAN>DE03899999991234567801</IBAN>\n </Id>\n </DbtrAcct>\n <DbtrAgt>\n <FinInstnId>\n <Othr>\n <Id>NOTPROVIDED</Id>\n </Othr>\n </FinInstnId>\n </DbtrAgt>\n </PmtInfn>\n </CstmrCdtTrfInitn>\n</Document></pre>
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						</CstmrCdtTrflnItn> </Document>
20	Trigger collective credit transfer, illegal credit transfer included	b	NOK - negative feedback	PSU-ID = XS2AT005	Bsp. Antwort (JSON) <pre>{ "tppMessages": [{ "category": "ERROR", "code": "PAYMENT_FAILED", "text": "The payment initiation POST request failed during the initial process. Additional information may be provided by the ASPSP." }, { "category": "ERROR", "code": "PAYMENT_FAILED", "text": "invalid bulk payment" }] }</pre>	
21	INITIATION OF A RECURRING PAYMENT	Setting up a standing order	g	OK - positive feedback paymentID = de12c1e0-a98e-4df3-94cd-ebf5a7d52bbb PSU-ID = XS2AT001	Bsp. Antwort (Multipart) <pre>--AaaBbbCcc Content-Disposition: form-data; name="xml_sct" Content-Type: application/xml <?xml version="1.0" encoding="UTF-8"?> <Document xmlns="urn:iso:std:iso:20022:tech:xsd:pain.001.001.03"> <CstmrCdtTrflnItn> <GrpHdr> <MsgId>MIPI-123456789RI-123456789</MsgId> <CreDtTm>2017-02-14T20:23:34.000Z</CreDtTm> <NbOfTxns>1</NbOfTxns> <CtrlSum>123.98</CtrlSum> <InitgPty> <Nm>PaymentInitiator</Nm> </InitgPty> </GrpHdr> <Pmtlnf> <Pmtlnfld>BIPI-123456789RI-123456789</Pmtlnfld></pre>	

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2 2	Establish ment of standing order with inadmissib le credit transfer data	b	NOK - negative feedback	PSU-ID = XS2AT006	<p>Bsp. Antwort (JSON)</p> <pre> { "tppMessages": [{ "category": "ERROR", "code": "PAYMENT_FAILED", "text": "The payment initiation POST request failed during the initial process. Additional information may be provided by the ASPSP." }, { "category": "ERROR", "code": "PAYMENT_FAILED", "text": "invalid periodic payment" }] } </pre>

- 1) Identification of good/fault cases: g=good, b=bad
- 2) "expected outcome" in the sense of what the TPP receives as a result
- 3) Call parameters for TPP for triggering the test case and delivered result set

- a) AIS = Account Information Service
- b) FCS = Fund Confirmation Service
- c) PIS = Payment Initiating Service

Testing Data

Flatex Bank (10130800 / BIWBDE33XXX)

#	AccountID	IBAN	Account Number
1	m6z1-iHlhK2E4YkhT0N1tNGUe3S1SopU6LkQWcGbMg=	DE12101308008000310015	8000310015
2	pkb8kDrh1zLkrlcq8vb980gfsSMaCNNt0VrzpzhZ4=	DE17101308008000310022	8000310022
3	q9_4Fwuy49fFYNZvOlql4icNOR9gOaVtO3-VjvYSh50=	DE43101308008000310039	8000310039
4	Yi_Rgv-zdD7kTWri04GihpeNV4jtvvh4ZXvazrSuLg=	DE48101308008000310046	8000310046
5	1iK5jUSzg8S8PFpjyhXD92PI38mgWypKdNki7_vMv-w=	DE53101308008000310053	8000310053
6	PWKaP0EWV7dbE0xxjSYQaGKOBMgARerJnmE5Fwp-ngo=	DE58101308008000310060	8000310060
7	nVK0G6Nin30GtcfuNPfgHCbG_MeTrDunX2F0JtXfYOY=	DE84101308008000310077	8000310077
8	g8eY2chicCXU1f0NAM9qh2ty-xGxaNjlTfxcOLXu6w4=	DE89101308008000310084	8000310084
9	4D7cc1nZMGtakjT7Ra3EFTuftQuF1l5osWyFFGCVKME=	DE94101308008000310091	8000310091
10	mJLCEYn4Zd7zGDQw_Bh7gfmdOYeKsQLab-2fmxKP7r4=	DE18101308008000310101	8000310101

#	PaymentID	Content
1	66e06e75-16b2-4c71-ad19-df31e3038ec0	SEPA single credit transfer
2	34bb0f7b-3c73-4b02-af41-2fbcbf04f2cc	terminated SEPA single credit transfer
3	de12c1e0-a98e-4df3-94cd-ebf5a7d52bbb	SEPA-standing-order
4	ce6b9e02-57a7-45ab-8af9-6d4725f698c5	SEPA-collective credit transfer
5	91e6daff-41ad-4242-803a-f6292d1956dc	terminated SEPA-collective credit transfer
6	cc35dd9d-2eee-41dd-aef4-e04c199db81b	international credit transfer
7	683a4165-a5dc-4fa7-9b2a-88041b5d4c8c	collective international credit transfer