
PSD2-TPP Technical Design

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1. INTRODUCTION

1.1 Scope

This document describes the technical design of the interface between third-party (payment service) providers (TPPs) and the HUB to ensure compliance with the PSD2 Directive.

1.2 Context

It is the final joint document between Redsys and the financial institutions associated with the HUB.

1.3 Glossary

The table below lists the acronyms/abbreviations and their definitions used in the document.

Acronym	Definition
• • ASPSP	Account Servicing Payment Services Provider • • • Provides and maintains customer accounts from which payments can be made.
• • PISP	Payment Initiation Services Provider • • • Initiates a payment order at the request of the user, from a payment account held at another payment services provider.
• • AISP	Account Information Service Provider • • • Provides account information services to customers for payment accounts held with other providers.
• • TPP	Third Party Provider • • • Executes the services defined by PSD2 on behalf of a PSU. If it is necessary for the service, it accesses the account(s) of the PSU administered by an ASPSP using the XS2A interface of this ASPSP. It sends request messages to the XS2A interface of the ASPSP and receives response messages corresponding to this ASPSP.
• • PIISP	Payment Issuer Instrument Services Provider • • • Provides users with a payment instrument with which to initiate and process payment transactions.
• • PSU	Payment Services User • • • May be a natural or legal person under PSD2 legislation. Implicitly or explicitly instructs the TPP to perform any PSD2 service for its ASPSP.
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- May be a natural or legal person under PSD2 legislation. Implicitly or explicitly instructs the TPP to perform any PSD2 service for its ASPSP. • •
- May be a natural or legal person under PSD2 legislation. Implicitly or explicitly instructs the TPP to perform any PSD2 service for its ASPSP. • •
-

2. GENERAL DESCRIPTION OF THE SYSTEM

The following table lists the services available:

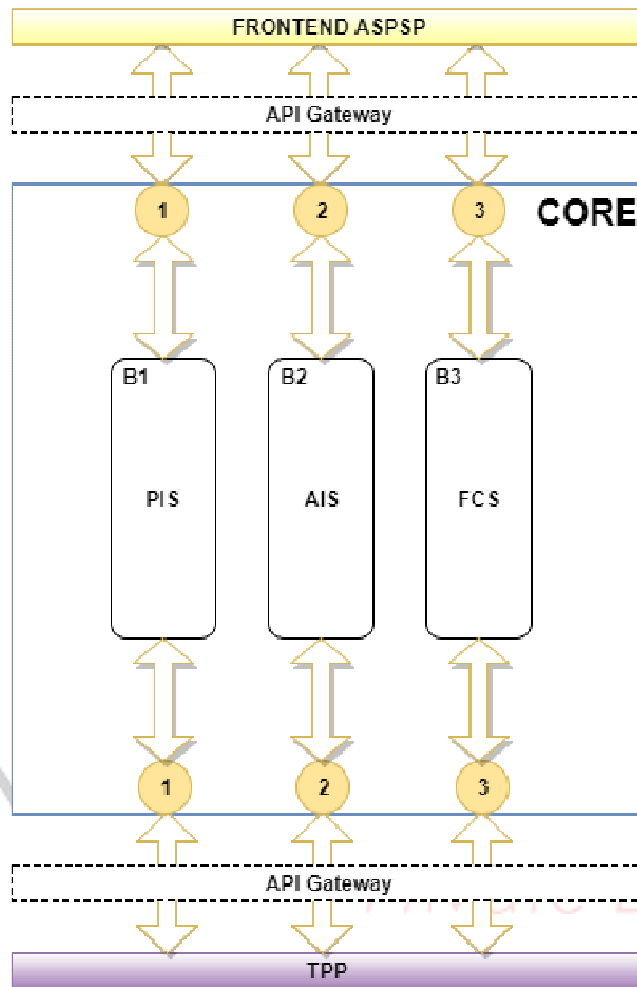


Figure 1: Core Module Diagram

Servicio• ID• Funcionalidad• Estado• Fase• • CORE

ID• Funcionalidad• Estado• Fase• • CORE

Funcionalidad• Estado• Fase• • CORE

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Version 1.7.3

Estado Fase • CORE

Fase • CORE

• CORE

CORE

• **PIS**• COR101• Initiate simple single signature payment• Available• 1• • • • COR102• Initiate recurring payments• In definition• 2• • • • COR103• Initiate recurring multiple/bulk payments• In definition• 2• • • • COR104• Initiate future payments• In definition• 2• • • • COR105• Check payment status• Available• 1• • • • COR106• Recover payment initiation information• Available• 1• • • • COR108• Cancel payment• Available• 2• • • • **AIS**• COR201• Establish consent• Available• 1• • • • COR202• Recover consent information• Available• 1• • • • COR203• Check consent status• Available• 1• • • • COR204• Remove consent• Available• 1• • • • COR205• Read list of accounts available with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances• Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

PIS• COR101• Initiate simple single signature payment• Available• 1• • • • COR102• Initiate recurring payments• In definition• 2• • • • COR103• Initiate recurring multiple/bulk payments• In definition• 2• • • • COR104• Initiate future payments• In definition• 2• • • • COR105• Check payment status• Available• 1• • • • COR106• Recover payment initiation information• Available• 1• • • • COR108• Cancel payment• Available• 2• • • • **AIS**• COR201• Establish consent• Available• 1• • • • COR202• Recover consent information• Available• 1• • • • COR203• Check consent status• Available• 1• • • • COR204• Remove consent• Available• 1• • • • COR205• Read list of accounts available with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances• Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled

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flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •
COR101• Initiate simple single signature
payment• Available• 1• • • • COR102• Initiate recurring payments• In
definition• 2• • • • COR103• Initiate recurring multiple/bulk payments• In
definition• 2• • • • COR104• Initiate future payments• In
definition• 2• • • • COR105• Check payment
status• Available• 1• • • • COR106• Recover payment initiation
information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •
Initiate simple single signature
payment• Available• 1• • • • COR102• Initiate recurring payments• In
definition• 2• • • • COR103• Initiate recurring multiple/bulk payments• In
definition• 2• • • • COR104• Initiate future payments• In
definition• 2• • • • COR105• Check payment
status• Available• 1• • • • COR106• Recover payment initiation
information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access

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token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

Available• 1• • • • COR102• Initiate recurring payments• In
definition• 2• • • • COR103• Initiate recurring multiple/bulk payments• In
definition• 2• • • • COR104• Initiate future payments• In
definition• 2• • • • COR105• Check payment
status• Available• 1• • • • COR106• Recover payment initiation
information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

1• • • • COR102• Initiate recurring payments• In
definition• 2• • • • COR103• Initiate recurring multiple/bulk payments• In
definition• 2• • • • COR104• Initiate future payments• In
definition• 2• • • • COR105• Check payment
status• Available• 1• • • • COR106• Recover payment initiation
information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

• • • COR102• Initiate recurring payments• In
definition• 2• • • • COR103• Initiate recurring multiple/bulk payments• In
definition• 2• • • • COR104• Initiate future payments• In

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PSD2 – Diseño Técnico TPP

definition• 2• • • • COR105• Check payment
status• Available• 1• • • • COR106• Recover payment initiation
information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

• • • COR102• Initiate recurring payments• In
definition• 2• • • • COR103• Initiate recurring multiple/bulk payments• In
definition• 2• • • • COR104• Initiate future payments• In
definition• 2• • • • COR105• Check payment
status• Available• 1• • • • COR106• Recover payment initiation
information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

• • • COR102• Initiate recurring payments• In
definition• 2• • • • COR103• Initiate recurring multiple/bulk payments• In
definition• 2• • • • COR104• Initiate future payments• In
definition• 2• • • • COR105• Check payment
status• Available• 1• • • • COR106• Recover payment initiation
information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • • **AIS**• COR201• Establish

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PSD2 – Diseño Técnico TPP

consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

COR102• Initiate recurring payments• In
definition• 2• • • • COR103• Initiate recurring multiple/bulk payments• In
definition• 2• • • • COR104• Initiate future payments• In
definition• 2• • • • COR105• Check payment
status• Available• 1• • • • COR106• Recover payment initiation
information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

Initiate recurring payments• In definition• 2• • • • COR103• Initiate
recurring multiple/bulk payments• In definition• 2• • • • COR104• Initiate
future payments• In definition• 2• • • • COR105• Check payment
status• Available• 1• • • • COR106• Recover payment initiation
information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read

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account details with/without balances• Available• 1• • • • COR208• Read balances • Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• •

In definition• 2• • • • COR103• Initiate recurring multiple/bulk payments• In definition• 2• • • • COR104• Initiate future payments• In definition• 2• • • • COR105• Check payment status• Available• 1• • • • COR106• Recover payment initiation information• Available• 1• • • • COR108• Cancel payment• Available• 2• • • • **AIS**• COR201• Establish consent• Available• 1• • • • COR202• Recover consent information• Available• 1• • • • COR203• Check consent status• Available• 1• • • • COR204• Remove consent• Available• 1• • • • COR205• Read list of accounts available with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances • Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• •

2• • • • COR103• Initiate recurring multiple/bulk payments• In definition• 2• • • • COR104• Initiate future payments• In definition• 2• • • • COR105• Check payment status• Available• 1• • • • COR106• Recover payment initiation information• Available• 1• • • • COR108• Cancel payment• Available• 2• • • • **AIS**• COR201• Establish consent• Available• 1• • • • COR202• Recover consent information• Available• 1• • • • COR203• Check consent status• Available• 1• • • • COR204• Remove consent• Available• 1• • • • COR205• Read list of accounts available with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances • Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled

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PSD2 – Diseño Técnico TPP

flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• • • COR103• Initiate recurring multiple/bulk payments• In
definition• 2• • • • COR104• Initiate future payments• In
definition• 2• • • • COR105• Check payment
status• Available• 1• • • • COR106• Recover payment initiation
information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• • • COR103• Initiate recurring multiple/bulk payments• In
definition• 2• • • • COR104• Initiate future payments• In
definition• 2• • • • COR105• Check payment
status• Available• 1• • • • COR106• Recover payment initiation
information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• COR103• Initiate recurring multiple/bulk payments• In
definition• 2• • • • COR104• Initiate future payments• In
definition• 2• • • • COR105• Check payment

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PSD2 – Diseño Técnico TPP

status• Available• 1• • • • COR106• Recover payment initiation
information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

COR103• Initiate recurring multiple/bulk payments• In
definition• 2• • • • COR104• Initiate future payments• In
definition• 2• • • • COR105• Check payment
status• Available• 1• • • • COR106• Recover payment initiation
information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

Initiate recurring multiple/bulk payments• In
definition• 2• • • • COR104• Initiate future payments• In
definition• 2• • • • COR105• Check payment
status• Available• 1• • • • COR106• Recover payment initiation
information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available

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PSD2 – Diseño Técnico TPP

with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances • Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

In definition• 2• • • • COR104• Initiate future payments• In definition• 2• • • • COR105• Check payment status• Available• 1• • • • COR106• Recover payment initiation information• Available• 1• • • • COR108• Cancel payment• Available• 2• • • • **AIS**• COR201• Establish consent• Available• 1• • • • COR202• Recover consent information• Available• 1• • • • COR203• Check consent status• Available• 1• • • • COR204• Remove consent• Available• 1• • • • COR205• Read list of accounts available with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances • Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

2• • • • COR104• Initiate future payments• In definition• 2• • • • COR105• Check payment status• Available• 1• • • • COR106• Recover payment initiation information• Available• 1• • • • COR108• Cancel payment• Available• 2• • • • **AIS**• COR201• Establish consent• Available• 1• • • • COR202• Recover consent information• Available• 1• • • • COR203• Check consent status• Available• 1• • • • COR204• Remove consent• Available• 1• • • • COR205• Read list of accounts available with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances • Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled

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PSD2 – Diseño Técnico TPP

flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAuth**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• • • • COR104• Initiate future payments• In
definition• 2• • • • COR105• Check payment
status• Available• 1• • • • COR106• Recover payment initiation
information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAuth**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• • • • COR104• Initiate future payments• In
definition• 2• • • • COR105• Check payment
status• Available• 1• • • • COR106• Recover payment initiation
information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAuth**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• COR104• Initiate future payments• In definition• 2• • • • COR105• Check
payment status• Available• 1• • • • COR106• Recover payment initiation
information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • • **AIS**• COR201• Establish

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consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

COR104• Initiate future payments• In definition• 2• • • • COR105• Check
payment status• Available• 1• • • • COR106• Recover payment initiation
information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

Initiate future payments• In definition• 2• • • • COR105• Check payment
status• Available• 1• • • • COR106• Recover payment initiation
information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund

PSD2 – Diseño Técnico TPP

confirmation• Available• 1• • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

In definition• 2• • • • COR105• Check payment
status• Available• 1• • • • COR106• Recover payment initiation
information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

2• • • • COR105• Check payment
status• Available• 1• • • • COR106• Recover payment initiation
information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• • • COR105• Check payment
status• Available• 1• • • • COR106• Recover payment initiation
information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent

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PSD2 – Diseño Técnico TPP

information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• • COR105• Check payment status• Available• 1• • • • COR106• Recover
payment initiation information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• COR105• Check payment status• Available• 1• • • • COR106• Recover
payment initiation information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No

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PSD2 – Diseño Técnico TPP

soportado• • • • **OAuth**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• •

COR105• Check payment status• Available• 1• • • • COR106• Recover payment initiation information• Available• 1• • • • COR108• Cancel payment• Available• 2• • • • **AIS**• COR201• Establish consent• Available• 1• • • • COR202• Recover consent information• Available• 1• • • • COR203• Check consent status• Available• 1• • • • COR204• Remove consent• Available• 1• • • • COR205• Read list of accounts available with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances • Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAuth**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• •

Check payment status• Available• 1• • • • COR106• Recover payment initiation information• Available• 1• • • • COR108• Cancel payment• Available• 2• • • • **AIS**• COR201• Establish consent• Available• 1• • • • COR202• Recover consent information• Available• 1• • • • COR203• Check consent status• Available• 1• • • • COR204• Remove consent• Available• 1• • • • COR205• Read list of accounts available with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances • Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAuth**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• •

Available• 1• • • • COR106• Recover payment initiation information• Available• 1• • • • COR108• Cancel payment• Available• 2• • • • **AIS**• COR201• Establish consent• Available• 1• • • • COR202• Recover consent information• Available• 1• • • • COR203• Check consent status• Available• 1• • • • COR204• Remove consent• Available• 1• • • • COR205• Read list of accounts available with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read

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balances • Available • 1 • • • • COR209 • Read transactions with/without
balances • Available • 1 • • • • COR210 • Read transaction details • Not
supported • • • • **FCS** • COR301 • Fund
confirmation • Available • 1 • • • • **SCA** • COR401 • SCA by redirected
flow • Available • 1 • • • • COR402 • SCA by decoupled
flow • Available • 2 • • • • COR403 • Embedded SCA • No
soportado • • • • **OAUTH** • COR501 • Obtain access
token • Available • 2 • • • • COR502 • Renew access token • Available • 2 • •

1 • • • • COR106 • Recover payment initiation
information • Available • 1 • • • • COR108 • Cancel
payment • Available • 2 • • • • **AIS** • COR201 • Establish
consent • Available • 1 • • • • COR202 • Recover consent
information • Available • 1 • • • • COR203 • Check consent
status • Available • 1 • • • • COR204 • Remove
consent • Available • 1 • • • • COR205 • Read list of accounts available
with/without balances • Available • 1 • • • • COR206 • Read list of accounts
accessible with/without balances • Available • 1 • • • • COR207 • Read
account details with/without balances • Available • 1 • • • • COR208 • Read
balances • Available • 1 • • • • COR209 • Read transactions with/without
balances • Available • 1 • • • • COR210 • Read transaction details • Not
supported • • • • **FCS** • COR301 • Fund
confirmation • Available • 1 • • • • **SCA** • COR401 • SCA by redirected
flow • Available • 1 • • • • COR402 • SCA by decoupled
flow • Available • 2 • • • • COR403 • Embedded SCA • No
soportado • • • • **OAUTH** • COR501 • Obtain access
token • Available • 2 • • • • COR502 • Renew access token • Available • 2 • •

• • • • COR106 • Recover payment initiation
information • Available • 1 • • • • COR108 • Cancel
payment • Available • 2 • • • • **AIS** • COR201 • Establish
consent • Available • 1 • • • • COR202 • Recover consent
information • Available • 1 • • • • COR203 • Check consent
status • Available • 1 • • • • COR204 • Remove
consent • Available • 1 • • • • COR205 • Read list of accounts available
with/without balances • Available • 1 • • • • COR206 • Read list of accounts
accessible with/without balances • Available • 1 • • • • COR207 • Read
account details with/without balances • Available • 1 • • • • COR208 • Read
balances • Available • 1 • • • • COR209 • Read transactions with/without
balances • Available • 1 • • • • COR210 • Read transaction details • Not
supported • • • • **FCS** • COR301 • Fund
confirmation • Available • 1 • • • • **SCA** • COR401 • SCA by redirected
flow • Available • 1 • • • • COR402 • SCA by decoupled
flow • Available • 2 • • • • COR403 • Embedded SCA • No
soportado • • • • **OAUTH** • COR501 • Obtain access
token • Available • 2 • • • • COR502 • Renew access token • Available • 2 • •

• • • • COR106 • Recover payment initiation
information • Available • 1 • • • • COR108 • Cancel
payment • Available • 2 • • • • **AIS** • COR201 • Establish
consent • Available • 1 • • • • COR202 • Recover consent

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information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• COR106• Recover payment initiation
information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

COR106• Recover payment initiation
information• Available• 1• • • • COR108• Cancel
payment• Available• 2• • • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access

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token• Available• 2• • • • COR502• Renew access token• Available• 2• •

Recover payment initiation

information• Available• 1• • • • COR108• Cancel

payment• Available• 2• • • • **AIS**• COR201• Establish

consent• Available• 1• • • • COR202• Recover consent

information• Available• 1• • • • COR203• Check consent

status• Available• 1• • • • COR204• Remove

consent• Available• 1• • • • COR205• Read list of accounts available

with/without balances• Available• 1• • • • COR206• Read list of accounts

accessible with/without balances• Available• 1• • • • COR207• Read

account details with/without balances• Available• 1• • • • COR208• Read

balances • Available• 1• • • • COR209• Read transactions with/without

balances• Available• 1• • • • COR210• Read transaction details• Not

supported• • • • **FCS**• COR301• Fund

confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected

flow• Available• 1• • • • COR402• SCA by decoupled

flow• Available• 2• • • • COR403• Embedded SCA• No

soportado• • • • **OAUTH**• COR501• Obtain access

token• Available• 2• • • • COR502• Renew access token• Available• 2• •

Available• 1• • • • COR108• Cancel

payment• Available• 2• • • • **AIS**• COR201• Establish

consent• Available• 1• • • • COR202• Recover consent

information• Available• 1• • • • COR203• Check consent

status• Available• 1• • • • COR204• Remove

consent• Available• 1• • • • COR205• Read list of accounts available

with/without balances• Available• 1• • • • COR206• Read list of accounts

accessible with/without balances• Available• 1• • • • COR207• Read

account details with/without balances• Available• 1• • • • COR208• Read

balances • Available• 1• • • • COR209• Read transactions with/without

balances• Available• 1• • • • COR210• Read transaction details• Not

supported• • • • **FCS**• COR301• Fund

confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected

flow• Available• 1• • • • COR402• SCA by decoupled

flow• Available• 2• • • • COR403• Embedded SCA• No

soportado• • • • **OAUTH**• COR501• Obtain access

token• Available• 2• • • • COR502• Renew access token• Available• 2• •

1• • • • COR108• Cancel

payment• Available• 2• • • • **AIS**• COR201• Establish

consent• Available• 1• • • • COR202• Recover consent

information• Available• 1• • • • COR203• Check consent

status• Available• 1• • • • COR204• Remove

consent• Available• 1• • • • COR205• Read list of accounts available

with/without balances• Available• 1• • • • COR206• Read list of accounts

accessible with/without balances• Available• 1• • • • COR207• Read

account details with/without balances• Available• 1• • • • COR208• Read

balances • Available• 1• • • • COR209• Read transactions with/without

balances• Available• 1• • • • COR210• Read transaction details• Not

supported• • • • **FCS**• COR301• Fund

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confirmation• Available• 1• • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •
• • • COR108• Cancel payment• Available• 2• • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •
• • • COR108• Cancel payment• Available• 2• • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •
• COR108• Cancel payment• Available• 2• • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not

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PSD2 – Diseño Técnico TPP

supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

COR108• Cancel payment• Available• 2• • • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund

confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

Cancel payment• Available• 2• • • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund

confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

Available• 2• • • • **AIS**• COR201• Establish
consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not

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PSD2 – Diseño Técnico TPP

supported • • • **FCS** • COR301 • Fund
confirmation • Available • 1 • • • **SCA** • COR401 • SCA by redirected
flow • Available • 1 • • • • COR402 • SCA by decoupled
flow • Available • 2 • • • • COR403 • Embedded SCA • No
soportado • • • • **OAUTH** • COR501 • Obtain access
token • Available • 2 • • • • COR502 • Renew access token • Available • 2 • •

2 • • • **AIS** • COR201 • Establish
consent • Available • 1 • • • • COR202 • Recover consent
information • Available • 1 • • • • COR203 • Check consent
status • Available • 1 • • • • COR204 • Remove
consent • Available • 1 • • • • COR205 • Read list of accounts available
with/without balances • Available • 1 • • • • COR206 • Read list of accounts
accessible with/without balances • Available • 1 • • • • COR207 • Read
account details with/without balances • Available • 1 • • • • COR208 • Read
balances • Available • 1 • • • • COR209 • Read transactions with/without
balances • Available • 1 • • • • COR210 • Read transaction details • Not
supported • • • • **FCS** • COR301 • Fund
confirmation • Available • 1 • • • • **SCA** • COR401 • SCA by redirected
flow • Available • 1 • • • • COR402 • SCA by decoupled
flow • Available • 2 • • • • COR403 • Embedded SCA • No
soportado • • • • **OAUTH** • COR501 • Obtain access
token • Available • 2 • • • • COR502 • Renew access token • Available • 2 • •

• • • **AIS** • COR201 • Establish
consent • Available • 1 • • • • COR202 • Recover consent
information • Available • 1 • • • • COR203 • Check consent
status • Available • 1 • • • • COR204 • Remove
consent • Available • 1 • • • • COR205 • Read list of accounts available
with/without balances • Available • 1 • • • • COR206 • Read list of accounts
accessible with/without balances • Available • 1 • • • • COR207 • Read
account details with/without balances • Available • 1 • • • • COR208 • Read
balances • Available • 1 • • • • COR209 • Read transactions with/without
balances • Available • 1 • • • • COR210 • Read transaction details • Not
supported • • • • **FCS** • COR301 • Fund
confirmation • Available • 1 • • • • **SCA** • COR401 • SCA by redirected
flow • Available • 1 • • • • COR402 • SCA by decoupled
flow • Available • 2 • • • • COR403 • Embedded SCA • No
soportado • • • • **OAUTH** • COR501 • Obtain access
token • Available • 2 • • • • COR502 • Renew access token • Available • 2 • •

• **AIS** • COR201 • Establish consent • Available • 1 • • • • COR202 • Recover
consent information • Available • 1 • • • • COR203 • Check consent
status • Available • 1 • • • • COR204 • Remove
consent • Available • 1 • • • • COR205 • Read list of accounts available
with/without balances • Available • 1 • • • • COR206 • Read list of accounts
accessible with/without balances • Available • 1 • • • • COR207 • Read
account details with/without balances • Available • 1 • • • • COR208 • Read
balances • Available • 1 • • • • COR209 • Read transactions with/without
balances • Available • 1 • • • • COR210 • Read transaction details • Not

PSD2 – Diseño Técnico TPP

supported • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

AIS• COR201• Establish consent• Available• 1• • • • COR202• Recover
consent information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

COR201• Establish consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

Establish consent• Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled

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flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAuth**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •
Available• 1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAuth**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •
1• • • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAuth**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •
• • • COR202• Recover consent
information• Available• 1• • • • COR203• Check consent
status• Available• 1• • • • COR204• Remove
consent• Available• 1• • • • COR205• Read list of accounts available
with/without balances• Available• 1• • • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • • COR207• Read
account details with/without balances• Available• 1• • • • COR208• Read
balances • Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAuth**• COR501• Obtain access

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token• Available• 2• • • COR502• Renew access token• Available• 2• •

• • COR202• Recover consent
information• Available• 1• • • COR203• Check consent
status• Available• 1• • • COR204• Remove
consent• Available• 1• • • COR205• Read list of accounts available
with/without balances• Available• 1• • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • COR207• Read
account details with/without balances• Available• 1• • • COR208• Read
balances • Available• 1• • • COR209• Read transactions with/without
balances• Available• 1• • • COR210• Read transaction details• Not
supported• • • **FCS**• COR301• Fund
confirmation• Available• 1• • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • COR402• SCA by decoupled
flow• Available• 2• • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • COR502• Renew access token• Available• 2• •

• COR202• Recover consent
information• Available• 1• • • COR203• Check consent
status• Available• 1• • • COR204• Remove
consent• Available• 1• • • COR205• Read list of accounts available
with/without balances• Available• 1• • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • COR207• Read
account details with/without balances• Available• 1• • • COR208• Read
balances • Available• 1• • • COR209• Read transactions with/without
balances• Available• 1• • • COR210• Read transaction details• Not
supported• • • **FCS**• COR301• Fund
confirmation• Available• 1• • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • COR402• SCA by decoupled
flow• Available• 2• • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • COR502• Renew access token• Available• 2• •

COR202• Recover consent information• Available• 1• • • COR203• Check
consent status• Available• 1• • • COR204• Remove
consent• Available• 1• • • COR205• Read list of accounts available
with/without balances• Available• 1• • • COR206• Read list of accounts
accessible with/without balances• Available• 1• • • COR207• Read
account details with/without balances• Available• 1• • • COR208• Read
balances • Available• 1• • • COR209• Read transactions with/without
balances• Available• 1• • • COR210• Read transaction details• Not
supported• • • **FCS**• COR301• Fund
confirmation• Available• 1• • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • COR402• SCA by decoupled
flow• Available• 2• • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • COR502• Renew access token• Available• 2• •

Recover consent information• Available• 1• • • COR203• Check consent
status• Available• 1• • • COR204• Remove

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consent• Available• 1• • • • COR205• Read list of accounts available with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances • Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• • • Available• 1• • • • COR203• Check consent status• Available• 1• • • • COR204• Remove consent• Available• 1• • • • COR205• Read list of accounts available with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances • Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• • • 1• • • • COR203• Check consent status• Available• 1• • • • COR204• Remove consent• Available• 1• • • • COR205• Read list of accounts available with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances • Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• • • • • • • COR203• Check consent status• Available• 1• • • • COR204• Remove consent• Available• 1• • • • COR205• Read list of accounts available with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances • Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not

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PSD2 – Diseño Técnico TPP

supported • • • **FCS** • COR301 • Fund
confirmation • Available • 1 • • • **SCA** • COR401 • SCA by redirected
flow • Available • 1 • • • COR402 • SCA by decoupled
flow • Available • 2 • • • COR403 • Embedded SCA • No
soportado • • • **OAUTH** • COR501 • Obtain access
token • Available • 2 • • • COR502 • Renew access token • Available • 2 • •

• • COR203 • Check consent status • Available • 1 • • • COR204 • Remove
consent • Available • 1 • • • COR205 • Read list of accounts available
with/without balances • Available • 1 • • • COR206 • Read list of accounts
accessible with/without balances • Available • 1 • • • COR207 • Read
account details with/without balances • Available • 1 • • • COR208 • Read
balances • Available • 1 • • • COR209 • Read transactions with/without
balances • Available • 1 • • • COR210 • Read transaction details • Not
supported • • • **FCS** • COR301 • Fund
confirmation • Available • 1 • • • **SCA** • COR401 • SCA by redirected
flow • Available • 1 • • • COR402 • SCA by decoupled
flow • Available • 2 • • • COR403 • Embedded SCA • No
soportado • • • **OAUTH** • COR501 • Obtain access
token • Available • 2 • • • COR502 • Renew access token • Available • 2 • •

• COR203 • Check consent status • Available • 1 • • • COR204 • Remove
consent • Available • 1 • • • COR205 • Read list of accounts available
with/without balances • Available • 1 • • • COR206 • Read list of accounts
accessible with/without balances • Available • 1 • • • COR207 • Read
account details with/without balances • Available • 1 • • • COR208 • Read
balances • Available • 1 • • • COR209 • Read transactions with/without
balances • Available • 1 • • • COR210 • Read transaction details • Not
supported • • • **FCS** • COR301 • Fund
confirmation • Available • 1 • • • **SCA** • COR401 • SCA by redirected
flow • Available • 1 • • • COR402 • SCA by decoupled
flow • Available • 2 • • • COR403 • Embedded SCA • No
soportado • • • **OAUTH** • COR501 • Obtain access
token • Available • 2 • • • COR502 • Renew access token • Available • 2 • •

COR203 • Check consent status • Available • 1 • • • COR204 • Remove
consent • Available • 1 • • • COR205 • Read list of accounts available
with/without balances • Available • 1 • • • COR206 • Read list of accounts
accessible with/without balances • Available • 1 • • • COR207 • Read
account details with/without balances • Available • 1 • • • COR208 • Read
balances • Available • 1 • • • COR209 • Read transactions with/without
balances • Available • 1 • • • COR210 • Read transaction details • Not
supported • • • **FCS** • COR301 • Fund
confirmation • Available • 1 • • • **SCA** • COR401 • SCA by redirected
flow • Available • 1 • • • COR402 • SCA by decoupled
flow • Available • 2 • • • COR403 • Embedded SCA • No
soportado • • • **OAUTH** • COR501 • Obtain access
token • Available • 2 • • • COR502 • Renew access token • Available • 2 • •

Check consent status • Available • 1 • • • COR204 • Remove
consent • Available • 1 • • • COR205 • Read list of accounts available

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with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances • Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

Available• 1• • • • COR204• Remove consent• Available• 1• • • • COR205• Read list of accounts available with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances • Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

1• • • • COR204• Remove consent• Available• 1• • • • COR205• Read list of accounts available with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances • Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

• • • • COR204• Remove consent• Available• 1• • • • COR205• Read list of accounts available with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances • Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No

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soportado • • • **OAuth** • COR501 • Obtain access token • Available • 2 • • • COR502 • Renew access token • Available • 2 • •

• • COR204 • Remove consent • Available • 1 • • • COR205 • Read list of accounts available with/without balances • Available • 1 • • • COR206 • Read list of accounts accessible with/without balances • Available • 1 • • • COR207 • Read account details with/without balances • Available • 1 • • • COR208 • Read balances • Available • 1 • • • COR209 • Read transactions with/without balances • Available • 1 • • • COR210 • Read transaction details • Not supported • • • **FCS** • COR301 • Fund confirmation • Available • 1 • • • **SCA** • COR401 • SCA by redirected flow • Available • 1 • • • COR402 • SCA by decoupled flow • Available • 2 • • • COR403 • Embedded SCA • No
soportado • • • **OAuth** • COR501 • Obtain access token • Available • 2 • • • COR502 • Renew access token • Available • 2 • •

• COR204 • Remove consent • Available • 1 • • • COR205 • Read list of accounts available with/without balances • Available • 1 • • • COR206 • Read list of accounts accessible with/without balances • Available • 1 • • • COR207 • Read account details with/without balances • Available • 1 • • • COR208 • Read balances • Available • 1 • • • COR209 • Read transactions with/without balances • Available • 1 • • • COR210 • Read transaction details • Not supported • • • **FCS** • COR301 • Fund confirmation • Available • 1 • • • **SCA** • COR401 • SCA by redirected flow • Available • 1 • • • COR402 • SCA by decoupled flow • Available • 2 • • • COR403 • Embedded SCA • No
soportado • • • **OAuth** • COR501 • Obtain access token • Available • 2 • • • COR502 • Renew access token • Available • 2 • •

COR204 • Remove consent • Available • 1 • • • COR205 • Read list of accounts available with/without balances • Available • 1 • • • COR206 • Read list of accounts accessible with/without balances • Available • 1 • • • COR207 • Read account details with/without balances • Available • 1 • • • COR208 • Read balances • Available • 1 • • • COR209 • Read transactions with/without balances • Available • 1 • • • COR210 • Read transaction details • Not supported • • • **FCS** • COR301 • Fund confirmation • Available • 1 • • • **SCA** • COR401 • SCA by redirected flow • Available • 1 • • • COR402 • SCA by decoupled flow • Available • 2 • • • COR403 • Embedded SCA • No
soportado • • • **OAuth** • COR501 • Obtain access token • Available • 2 • • • COR502 • Renew access token • Available • 2 • •

Remove consent • Available • 1 • • • COR205 • Read list of accounts available with/without balances • Available • 1 • • • COR206 • Read list of accounts accessible with/without balances • Available • 1 • • • COR207 • Read account details with/without balances • Available • 1 • • • COR208 • Read balances • Available • 1 • • • COR209 • Read transactions with/without

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balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

Available• 1• • • • COR205• Read list of accounts available with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances • Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

1• • • • COR205• Read list of accounts available with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances • Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

• • • COR205• Read list of accounts available with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances • Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

• • COR205• Read list of accounts available with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances

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• Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

• COR205• Read list of accounts available with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances
• Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

COR205• Read list of accounts available with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances
• Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

Read list of accounts available with/without balances• Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances
• Available• 1• • • • COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

Available• 1• • • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • • COR207• Read account details with/without balances• Available• 1• • • • COR208• Read balances
• Available• 1• • • • COR209• Read transactions with/without

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balances• Available• 1• • • COR210• Read transaction details• Not supported• • • **FCS**• COR301• Fund confirmation• Available• 1• • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • COR402• SCA by decoupled flow• Available• 2• • • COR403• Embedded SCA• No soportado• • • **OAUTH**• COR501• Obtain access token• Available• 2• • • COR502• Renew access token• Available• 2• •

1• • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • COR207• Read account details with/without balances• Available• 1• • • COR208• Read balances • Available• 1• • • COR209• Read transactions with/without balances• Available• 1• • • COR210• Read transaction details• Not supported• • • **FCS**• COR301• Fund confirmation• Available• 1• • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • COR402• SCA by decoupled flow• Available• 2• • • COR403• Embedded SCA• No soportado• • • **OAUTH**• COR501• Obtain access token• Available• 2• • • COR502• Renew access token• Available• 2• •

• • • COR206• Read list of accounts accessible with/without balances• Available• 1• • • COR207• Read account details with/without balances• Available• 1• • • COR208• Read balances • Available• 1• • • COR209• Read transactions with/without balances• Available• 1• • • COR210• Read transaction details• Not supported• • • **FCS**• COR301• Fund confirmation• Available• 1• • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • COR402• SCA by decoupled flow• Available• 2• • • COR403• Embedded SCA• No soportado• • • **OAUTH**• COR501• Obtain access token• Available• 2• • • COR502• Renew access token• Available• 2• •

• • COR206• Read list of accounts accessible with/without balances• Available• 1• • • COR207• Read account details with/without balances• Available• 1• • • COR208• Read balances • Available• 1• • • COR209• Read transactions with/without balances• Available• 1• • • COR210• Read transaction details• Not supported• • • **FCS**• COR301• Fund confirmation• Available• 1• • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • COR402• SCA by decoupled flow• Available• 2• • • COR403• Embedded SCA• No soportado• • • **OAUTH**• COR501• Obtain access token• Available• 2• • • COR502• Renew access token• Available• 2• •

• COR206• Read list of accounts accessible with/without balances• Available• 1• • • COR207• Read account details with/without balances• Available• 1• • • COR208• Read balances • Available• 1• • • COR209• Read transactions with/without balances• Available• 1• • • COR210• Read transaction details• Not supported• • • **FCS**• COR301• Fund confirmation• Available• 1• • • **SCA**• COR401• SCA by redirected

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flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

COR206• Read list of accounts accessible with/without
balances• Available• 1• • • • COR207• Read account details with/without
balances• Available• 1• • • • COR208• Read balances
• Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

Read list of accounts accessible with/without
balances• Available• 1• • • • COR207• Read account details with/without
balances• Available• 1• • • • COR208• Read balances
• Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

Available• 1• • • • COR207• Read account details with/without
balances• Available• 1• • • • COR208• Read balances
• Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

1• • • • COR207• Read account details with/without
balances• Available• 1• • • • COR208• Read balances
• Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• • •
• • • • COR207• Read account details with/without

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balances• Available• 1• • • • COR208• Read balances
• Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• • • COR207• Read account details with/without
balances• Available• 1• • • • COR208• Read balances
• Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• COR207• Read account details with/without
balances• Available• 1• • • • COR208• Read balances
• Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

COR207• Read account details with/without
balances• Available• 1• • • • COR208• Read balances
• Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

Read account details with/without
balances• Available• 1• • • • COR208• Read balances
• Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No

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soportado • • • **OAuth** • COR501 • Obtain access token • Available • 2 • • • COR502 • Renew access token • Available • 2 • •

Available • 1 • • • COR208 • Read balances • Available • 1 • • • COR209 • Read transactions with/without balances • Available • 1 • • • COR210 • Read transaction details • Not supported • • • **FCS** • COR301 • Fund

confirmation • Available • 1 • • • **SCA** • COR401 • SCA by redirected flow • Available • 1 • • • COR402 • SCA by decoupled flow • Available • 2 • • • COR403 • Embedded SCA • No

soportado • • • **OAuth** • COR501 • Obtain access token • Available • 2 • • • COR502 • Renew access token • Available • 2 • •

1 • • • COR208 • Read balances • Available • 1 • • • COR209 • Read transactions with/without balances • Available • 1 • • • COR210 • Read transaction details • Not supported • • • **FCS** • COR301 • Fund confirmation • Available • 1 • • • **SCA** • COR401 • SCA by redirected flow • Available • 1 • • • COR402 • SCA by decoupled flow • Available • 2 • • • COR403 • Embedded SCA • No
soportado • • • **OAuth** • COR501 • Obtain access token • Available • 2 • • • COR502 • Renew access token • Available • 2 • •

• • • COR208 • Read balances • Available • 1 • • • COR209 • Read transactions with/without balances • Available • 1 • • • COR210 • Read transaction details • Not supported • • • **FCS** • COR301 • Fund confirmation • Available • 1 • • • **SCA** • COR401 • SCA by redirected flow • Available • 1 • • • COR402 • SCA by decoupled flow • Available • 2 • • • COR403 • Embedded SCA • No
soportado • • • **OAuth** • COR501 • Obtain access token • Available • 2 • • • COR502 • Renew access token • Available • 2 • •

• • COR208 • Read balances • Available • 1 • • • COR209 • Read transactions with/without balances • Available • 1 • • • COR210 • Read transaction details • Not supported • • • **FCS** • COR301 • Fund confirmation • Available • 1 • • • **SCA** • COR401 • SCA by redirected flow • Available • 1 • • • COR402 • SCA by decoupled flow • Available • 2 • • • COR403 • Embedded SCA • No
soportado • • • **OAuth** • COR501 • Obtain access token • Available • 2 • • • COR502 • Renew access token • Available • 2 • •

• COR208 • Read balances • Available • 1 • • • COR209 • Read transactions with/without balances • Available • 1 • • • COR210 • Read transaction details • Not supported • • • **FCS** • COR301 • Fund confirmation • Available • 1 • • • **SCA** • COR401 • SCA by redirected flow • Available • 1 • • • COR402 • SCA by decoupled flow • Available • 2 • • • COR403 • Embedded SCA • No
soportado • • • **OAuth** • COR501 • Obtain access token • Available • 2 • • • COR502 • Renew access token • Available • 2 • •

COR208 • Read balances • Available • 1 • • • COR209 • Read transactions with/without balances • Available • 1 • • • COR210 • Read transaction details • Not supported • • • **FCS** • COR301 • Fund

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confirmation• Available• 1• • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

Read balances • Available• 1• • • • COR209• Read transactions
with/without balances• Available• 1• • • • COR210• Read transaction
details• Not supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

Available• 1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

1• • • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• • • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• • COR209• Read transactions with/without
balances• Available• 1• • • • COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• COR209• Read transactions with/without

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balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

COR209• Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

Read transactions with/without balances• Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

Available• 1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

1• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• • •

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• • • • COR210• Read transaction details• Not supported• • • • **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected

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flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

COR210• Read transaction details• Not
supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

Read transaction details• Not supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

Not supported• • • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• • • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• • **FCS**• COR301• Fund
confirmation• Available• 1• • • • **SCA**• COR401• SCA by redirected
flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• **FCS**• COR301• Fund confirmation• Available• 1• • • • **SCA**• COR401• SCA
by redirected flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access

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token• Available• 2• • • COR502• Renew access token• Available• 2• •

FCS• COR301• Fund confirmation• Available• 1• • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAuth**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• •

COR301• Fund confirmation• Available• 1• • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAuth**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• •

Fund confirmation• Available• 1• • • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAuth**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• •

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• • **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAuth**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• **SCA**• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAuth**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• •

SCA• COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAuth**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• •

COR401• SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No soportado• • • • **OAuth**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• •

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SCA by redirected flow• Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

Available• 1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

1• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• • • • COR402• SCA by decoupled
flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded
SCA• No soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

COR402• SCA by decoupled flow• Available• 2• • • • COR403• Embedded
SCA• No soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

SCA by decoupled flow• Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

Available• 2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

2• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• • • • COR403• Embedded SCA• No
soportado• • • • **OAUTH**• COR501• Obtain access
token• Available• 2• • • • COR502• Renew access token• Available• 2• •

PSD2 – Diseño Técnico TPP

• COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• •

COR403• Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• •

Embedded SCA• No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• •

No soportado• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• • • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• • • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• •

• • **OAUTH**• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• •

OAUTH• COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• •

COR501• Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• •

Obtain access token• Available• 2• • • • COR502• Renew access token• Available• 2• •

Available• 2• • • • COR502• Renew access token• Available• 2• •

2• • • • COR502• Renew access token• Available• 2• •

• • • COR502• Renew access token• Available• 2• •

• • COR502• Renew access token• Available• 2• •

• COR502• Renew access token• Available• 2• •

COR502• Renew access token• Available• 2• •

Renew access token• Available• 2• •

Available• 2• •

2• •

•

Table 1: CORE services

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Version 1.7.3

- Servicio• ID• Funcionalidad• Estado• Fase• • SVA• DIR. ASPSPs•** SVA001• List of available ASPSPs
- Available• 1• • • **PIS•** SVA101• Payment initiation with list of accounts available for PISP• Available• 2• • • **AIS•** SVA201• Alert of data available in PUSH mode• Pendig• TBD• •
- ID• Funcionalidad• Estado• Fase• • SVA• DIR. ASPSPs•** SVA001• List of available ASPSPs • Available• 1• • • **PIS•** SVA101• Payment initiation with list of accounts available for PISP• Available• 2• • • **AIS•** SVA201• Alert of data available in PUSH mode• Pendig• TBD• •
- Funcionalidad• Estado• Fase• • SVA• DIR. ASPSPs•** SVA001• List of available ASPSPs • Available• 1• • • **PIS•** SVA101• Payment initiation with list of accounts available for PISP• Available• 2• • • **AIS•** SVA201• Alert of data available in PUSH mode• Pendig• TBD• •
- Estado• Fase• • SVA• DIR. ASPSPs•** SVA001• List of available ASPSPs • Available• 1• • • **PIS•** SVA101• Payment initiation with list of accounts available for PISP• Available• 2• • • **AIS•** SVA201• Alert of data available in PUSH mode• Pendig• TBD• •
- Fase• • SVA• DIR. ASPSPs•** SVA001• List of available ASPSPs • Available• 1• • • **PIS•** SVA101• Payment initiation with list of accounts available for PISP• Available• 2• • • **AIS•** SVA201• Alert of data available in PUSH mode• Pendig• TBD• •
- SVA• DIR. ASPSPs•** SVA001• List of available ASPSPs • Available• 1• • • **PIS•** SVA101• Payment initiation with list of accounts available for PISP• Available• 2• • • **AIS•** SVA201• Alert of data available in PUSH mode• Pendig• TBD• •
- DIR. ASPSPs•** SVA001• List of available ASPSPs • Available• 1• • • **PIS•** SVA101• Payment initiation with list of accounts available for PISP• Available• 2• • • **AIS•** SVA201• Alert of data available in PUSH mode• Pendig• TBD• •
- SVA001•** List of available ASPSPs • Available• 1• • • **PIS•** SVA101• Payment initiation with list of accounts available for PISP• Available• 2• • • **AIS•** SVA201• Alert of data available in PUSH mode• Pendig• TBD• •
- 1• • • PIS•** SVA101• Payment initiation with list of accounts available for PISP• Available• 2• • • **AIS•** SVA201• Alert of data available in PUSH mode• Pendig• TBD• •
- • PIS•** SVA101• Payment initiation with list of accounts available for

PISP• Available• 2• • • AIS• SVA201• Alert of data available in PUSH mode• Pendig• TBD• •

• PIS• SVA101• Payment initiation with list of accounts available for PISP• Available• 2• • • AIS• SVA201• Alert of data available in PUSH mode• Pendig• TBD• •

PIS• SVA101• Payment initiation with list of accounts available for PISP• Available• 2• • • AIS• SVA201• Alert of data available in PUSH mode• Pendig• TBD• •

SVA101• Payment initiation with list of accounts available for PISP• Available• 2• • • AIS• SVA201• Alert of data available in PUSH mode• Pendig• TBD• •

Payment initiation with list of accounts available for PISP• Available• 2• • • AIS• SVA201• Alert of data available in PUSH mode• Pendig• TBD• •

Available• 2• • • AIS• SVA201• Alert of data available in PUSH mode• Pendig• TBD• •

2• • • AIS• SVA201• Alert of data available in PUSH mode• Pendig• TBD• •

• • AIS• SVA201• Alert of data available in PUSH mode• Pendig• TBD• •

• AIS• SVA201• Alert of data available in PUSH mode• Pendig• TBD• •

AIS• SVA201• Alert of data available in PUSH mode• Pendig• TBD• •

SVA201• Alert of data available in PUSH mode• Pendig• TBD• •

Alert of data available in PUSH mode• Pendig• TBD• •

Pendig• TBD• •

TBD• •

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Table 2: Value-added services

3. DESCRIPTION OF CORE SERVICES

3.1 PIS: Payment initiation service

3.1.1 Payment initiation

Message sent by the TPP to the ASPSP through Hub to initiate payment.

3.1.1.1 Request

Endpoint

POST {provider}/{aspsp}/v1/payments/{payment-product}

Path

Field• Description• Type• Man. • Format• • provide

r• URL of the HUB where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp**• Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-product**• Payment product to be used. List of supported products:

Description• Type• Man. • Format• • provider• URL

of the HUB where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp**• Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-product**• Payment product to be used. List of supported products:

Type• Man. • Format• • provider• URL of the HUB

where the service is published. • String • MAN • E.g.

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Man. • Format• • provider• URL of the HUB where the

service is published. • String • MAN • E.g.

www.hub.com • • **aspsp**• Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-product**• Payment product to be used. List of supported products:

Format• • provider• URL of the HUB where the

service is published. • String • MAN • E.g.

www.hub.com • • **aspsp**• Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-product**• Payment product to be used. List of supported products:

• provider• URL of the HUB where the service is

published. • String • MAN • E.g.

www.hub.com • • **aspsp**• Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-product**• Payment product to be used. List of supported products:

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published. • String • MAN • E.g.

www.hub.com • • **aspsp**• Name of the ASPSP to which

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URL of the HUB where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-product** • Payment product to be used. List of supported products:

String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-product** • Payment product to be used. List of supported products:

MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-product** • Payment product to be used. List of supported products:

E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-product** • Payment product to be used. List of supported products:

• **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-product** • Payment product to be used. List of supported products:

aspsp • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-product** • Payment product to be used. List of supported products:

Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-product** • Payment product to be used. List of supported products:

String • MAN • E.g. aspsp-name • • **payment-product** • Payment product to be used. List of supported products:

MAN • E.g. aspsp-name • • **payment-product** • Payment product to be used. List of supported products:

E.g. aspsp-name • • **payment-product** • Payment product to be used. List of supported products:

• **payment-product** • Payment product to be used. List of

supported products:

payment-product Payment product to be used. List of supported products:

Payment product to be used. List of supported products:

- sepa-credit-transfers
- target-2-payments
- cross-border-credit-transfers
- String
- MAN
- E.g. {provider}/{aspsp}/v1/payments/sepa-credit-transfers/
- •

String

MAN

E.g. {provider}/{aspsp}/v1/payments/sepa-credit-transfers/

• •

MAN

E.g. {provider}/{aspsp}/v1/payments/sepa-credit-transfers/

• •

E.g. {provider}/{aspsp}/v1/payments/sepa-credit-transfers/

• •

•

Query parameters

No additional parameters are specified for this request.

Header

Field • **Description** • **Type** • **Man.** • **Format** • **Content-Type** • **Value:**

application/json • String • MAN • Content-Type: application/json • • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Description • **Type** • **Man.** • **Format** • **Content-Type** • **Value:** application/json • String • MAN • Content-Type: application/json • • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Type • **Man.** • **Format** • **Content-Type** • **Value:** application/json • String • MAN • Content-Type: application/json • • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party.

- String• MAN• **UUID**

Man. • Format • Content-Type Value:

application/json• String• MAN• Content-Type:
application/json• • **X-Request-ID** ID of the request,
unique to the call, as determined by the initiating party.

- String• MAN• **UUID**

Format • Content-Type Value:

application/json• String• MAN• Content-Type:
application/json• • **X-Request-ID** ID of the request,
unique to the call, as determined by the initiating party.

- String• MAN• **UUID**

• **Content-Type** Value:

application/json• String• MAN• Content-Type:
application/json• • **X-Request-ID** ID of the request,
unique to the call, as determined by the initiating party.

- String• MAN• **UUID**

Content-Type Value:

application/json• String• MAN• Content-Type:
application/json• • **X-Request-ID** ID of the request,
unique to the call, as determined by the initiating party.

- String• MAN• **UUID**

Value: application/json• String• MAN• Content-Type:
application/json• • **X-Request-ID** ID of the request,
unique to the call, as determined by the initiating party.

- String• MAN• **UUID**

String• MAN• Content-Type: application/json• • **X-Request-ID** ID of the request, unique to the call, as determined by the initiating party.

- String• MAN• **UUID**

MAN• Content-Type: application/json• • **X-Request-ID** ID of the request, unique to the call, as determined by the initiating party. • String• MAN• **UUID**

Content-Type: application/json• • **X-Request-ID** ID of the request, unique to the call, as determined by the initiating party. • String• MAN• **UUID**

• **X-Request-ID** ID of the request, unique to the call, as determined by the initiating party.

- String• MAN• **UUID**

X-Request-ID ID of the request, unique to the call, as determined by the initiating party.

- String • MAN • **UUID**

ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

String • MAN • **UUID**

MAN • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7 • • **Authorisation** • Bearer Token.

Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

• **Authorisation** • Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

Authorisation • Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

String • MAN • E.g.

MAN • E.g.

E.g.

Authorisation: Bearer

2YotnFZFEjr1zCsicMWpAA • • **Consent-ID** • This data element may be contained, if the payment initiation transaction is part of a session, i.e. combined AIS/PIS service. This then contains the "consentId" of the related AIS consent, which was performed prior to this payment initiation. • String • OPT • ^.{1,36}\$

• **Consent-ID** • This data element may be contained, if the payment initiation transaction is part of a session, i.e. combined AIS/PIS service. This then contains the "consentId" of the related AIS consent, which was performed prior to this payment initiation.

• String • OPT • ^.{1,36}\$

Consent-ID • This data element may be contained, if the payment initiation transaction is part of a session, i.e. combined AIS/PIS service. This then contains the

"consentId" of the related AIS consent, which was performed prior to this payment initiation.

• String• OPT• ^.{1,36}\$

This data element may be contained, if the payment initiation transaction is part of a session, i.e. combined AIS/PIS service. This then contains the "consentId" of the related AIS consent, which was performed prior to this payment initiation. • String• OPT• ^.{1,36}\$

String• OPT• ^.{1,36}\$

OPT• ^.{1,36}\$

^{1,36}\$

E.g. Consent-ID: 7890-asdf-4321• • **PSU-IP-**

Address• The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

• **PSU-IP-Address**• The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

PSU-IP-Address• The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

between PSU and TPP.

If not available, the TPP shall use the IP Address used by the TPP when submitting this request.

• String• MAN• ^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$

String• MAN• ^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$

MAN• ^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$

^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$

E.g.

PSU-IP-Address: 192.168.16.5• • **PSU-IP-Port**• The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available. • String• OPT• ^.{1,5}\$

• **PSU-IP-Port**• The forwarded IP Port header field

consists of the corresponding HTTP request IP Port field between PSU and TPP, if available.

• String• OPT• ^.{1,5}\$

PSU-IP-Port• The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available.

• String• OPT• ^.{1,5}\$

The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available. • String• OPT• ^.{1,5}\$

String• OPT• ^.{1,5}\$

OPT• ^.{1,5}\$

^{1,5}\$

E.g. PSU-IP-Port: 443• • **PSU-Accept**• The forwarded IP Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available. • String• OPT• ^.{1,50}\$

• **PSU-Accept**• The forwarded IP Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

• String• OPT• ^.{1,50}\$

PSU-Accept• The forwarded IP Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

• String• OPT• ^.{1,50}\$

The forwarded IP Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

• String• OPT• ^.{1,50}\$

String• OPT• ^.{1,50}\$

OPT• ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept: application/json• • **PSU-Accept-Charset**• Accept charset header of the HTTP request between PSU and the TPP• String• OPT• ^.{1,50}\$

• **PSU-Accept-Charset**• Accept charset header of the HTTP request between PSU and the TPP• String• OPT• ^.{1,50}\$

PSU-Accept-Charset• Accept charset header of the HTTP request between PSU and the TPP• String• OPT• ^.{1,50}\$

Accept charset header of the HTTP request between PSU and the TPP• String• OPT• ^.{1,50}\$

String• OPT• ^.{1,50}\$

OPT• ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept-Charset: utf-8• • **PSU-Accept-Encoding**• Accept encoding header of the HTTP request between PSU and the TPP• String• OPT• ^.{1,50}\$

• **PSU-Accept-Encoding**• Accept encoding header of the HTTP request between PSU and the TPP• String• OPT• ^.{1,50}\$

PSU-Accept-Encoding• Accept encoding header of the HTTP request between PSU and the TPP• String• OPT• ^.{1,50}\$

Accept encoding header of the HTTP request between PSU and the TPP• String• OPT• ^.{1,50}\$

String• OPT• ^.{1,50}\$

OPT• ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept-Encoding: gzip• • **PSU-Accept-Language**• Accept language header of the HTTP request between PSU and the TPP• String• OPT• ^.{1,50}\$

• **PSU-Accept-Language**• Accept language header of the HTTP request between PSU and the TPP• String• OPT• ^.{1,50}\$

PSU-Accept-Language• Accept language header of the HTTP request between PSU and the TPP• String• OPT• ^.{1,50}\$

Accept language header of the HTTP request between PSU and the TPP• String• OPT• ^.{1,50}\$

String• OPT• ^.{1,50}\$

OPT• ^.{1,50}\$

^.{1,50}\$

E.g. PSU-Accept-Language: es-ES • • **PSU-User-Agent** • The forwarded Agent header field of the HTTP request between PSU and TPP, if available.

• String • OPT • E.g.

• **PSU-User-Agent** • The forwarded Agent header field of the HTTP request between PSU and TPP, if available.

• String • OPT • E.g.

PSU-User-Agent • The forwarded Agent header field of the HTTP request between PSU and TPP, if available.

• String • OPT • E.g.

The forwarded Agent header field of the HTTP request between PSU and TPP, if available. • String • OPT • E.g.

String • OPT • E.g.

OPT • E.g.

E.g.

PSU-User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.5) Gecko/20091102 Firefox/3.5.5 (.NET CLR 3.5.30729) • • **PSU-Http-Method** • HTTP method used at the PSU – TPP interface, if available.

• **PSU-Http-Method** • HTTP method used at the PSU – TPP interface, if available.

PSU-Http-Method • HTTP method used at the PSU – TPP interface, if available.

HTTP method used at the PSU – TPP interface, if available.

Valid values are:

- GET
- POST
- PUT
- PATCH

• DELETE • String • OPT • E.g. PSU-Http-Method: POST • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

String• OPT• E.g. PSU-Http-Method: POST• • **PSU-Device-ID**• UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

OPT• E.g. PSU-Http-Method: POST• • **PSU-Device-ID**• UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

E.g. PSU-Http-Method: POST• • **PSU-Device-ID**• UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

• **PSU-Device-ID**• UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

PSU-Device-ID• UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

UUID identifies either a device or a device dependant application installation. In case of an installation identification this ID need to be unaltered until removal from device. • String• OPT• **UUID**

String• OPT• **UUID**

OPT• **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

PSU-Device-ID: 5b3ab8e8-0fd5-43d2-946e-d75958b172e7• • **PSU-Geo-Location**• The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String• OPT• **RFC 2426**

• **PSU-Geo-Location**• The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String• OPT• **RFC 2426**

PSU-Geo-Location• The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String• OPT• **RFC 2426**

The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available.

- String• OPT• **RFC 2426**

String• OPT• **RFC 2426**

OPT• **RFC 2426**

RFC 2426

^GEO:[\\d]*.[\\d]*[;][\\d]*.[\\d]*\$

E.g.

PSU-Geo-Location: GEO:90.023856;25.345963• • **TPP-Redirect-Preferred**• If it equals "true", the TPP prefers a redirect over an embedded SCA approach.

• **TPP-Redirect-Preferred**• If it equals "true", the TPP prefers a redirect over an embedded SCA approach.

TPP-Redirect-Preferred• If it equals "true", the TPP prefers a redirect over an embedded SCA approach.

If it equals "true", the TPP prefers a redirect over an embedded SCA approach.

If it equals "false", the TPP prefers not to be redirected for SCA. The ASPSP will then choose between the Embedded or the Decoupled SCA approach, depending on the choice of the SCA procedure by the TPP/PSU.

If the parameter is not used, the ASPSP will choose the SCA approach to be applied depending on the SCA method chosen by the TPP/PSU.

EMBEDDED NOT SUPPORTED IN THIS

VERSION• Boolean• OPT• E.g. TPP-Redirect-Preferred: true• • **TPP-Redirect-URI**• URI of the TPP, where the transaction flow shall be redirected to after a Redirect. Mandated for the Redirect SCA Approach, specifically when TPP-Redirect-Preferred equals "true".

Boolean• OPT• E.g. TPP-Redirect-Preferred: true• • **TPP-Redirect-URI**• URI of the TPP, where the transaction flow shall be redirected to after a Redirect. Mandated for the Redirect SCA Approach, specifically when TPP-Redirect-Preferred equals "true".

OPT• E.g. TPP-Redirect-Preferred: true• • **TPP-Redirect-URI**• URI of the TPP, where the transaction flow shall be redirected to after a Redirect. Mandated for the Redirect SCA Approach, specifically when TPP-Redirect-Preferred equals "true".

E.g. TPP-Redirect-Preferred: true • • **TPP-Redirect-URI** • URI of the TPP, where the transaction flow shall be redirected to after a Redirect. Mandated for the Redirect SCA Approach, specifically when TPP-Redirect-Preferred equals "true".

• **TPP-Redirect-URI** • URI of the TPP, where the transaction flow shall be redirected to after a Redirect. Mandated for the Redirect SCA Approach, specifically when TPP-Redirect-Preferred equals "true".

TPP-Redirect-URI • URI of the TPP, where the transaction flow shall be redirected to after a Redirect. Mandated for the Redirect SCA Approach, specifically when TPP-Redirect-Preferred equals "true".

URI of the TPP, where the transaction flow shall be redirected to after a Redirect. Mandated for the Redirect SCA Approach, specifically when TPP-Redirect-Preferred equals "true".

It is recommended to always use this header field.

Remark for Future: This field might be changed to mandatory in the next version of the specification.

• String • COND • $\wedge.\{1,250\}\$$

String • COND • $\wedge.\{1,250\}\$$

COND • $\wedge.\{1,250\}\$$

$\wedge.\{1,250\}\$$

E.g. TPP-Redirect-

URI:"https://tpp.example.es/cb" • • **TPP-Nok-**

Redirect-URI • If this URI is contained, the TPP is asking to redirect the transaction flow to this address instead of the TPP-Redirect-URI in case of a negative result of the redirect SCA method. This might be ignored by the ASPSP. • String • OPT • $\wedge.\{1,250\}\$$

• **TPP-Nok-Redirect-URI** • If this URI is contained, the TPP is asking to redirect the transaction flow to this address instead of the TPP-Redirect-URI in case of a negative result of the redirect SCA method. This might be ignored by the ASPSP. • String • OPT • $\wedge.\{1,250\}\$$

TPP-Nok-Redirect-URI • If this URI is contained, the TPP is asking to redirect the transaction flow to this address instead of the TPP-Redirect-URI in case of a negative result of the redirect SCA method. This might

be ignored by the ASPSP. • String • OPT • $\wedge.\{1,250\}$ \$

If this URI is contained, the TPP is asking to redirect the transaction flow to this address instead of the TPP-Redirect-URI in case of a negative result of the redirect SCA method. This might be ignored by the ASPSP.

• String • OPT • $\wedge.\{1,250\}$ \$

String • OPT • $\wedge.\{1,250\}$ \$

OPT • $\wedge.\{1,250\}$ \$

$\wedge.\{1,250\}$ \$

E.g. TPP-Nok-Redirect-

URI": "https://tpp.example.es/cb/nok" • • **TPP-Explicit-**

Authorisation-Preferred • If it equals "true", the TPP prefers to start the authorisation process separately. This preference might be ignored by the ASPSP, if a signing basket is not supported as functionality.

• **TPP-Explicit-Authorisation-Preferred** • If it equals "true", the TPP prefers to start the authorisation process separately. This preference might be ignored by the ASPSP, if a signing basket is not supported as functionality.

TPP-Explicit-Authorisation-Preferred • If it equals "true", the TPP prefers to start the authorisation process separately. This preference might be ignored by the ASPSP, if a signing basket is not supported as functionality.

If it equals "true", the TPP prefers to start the authorisation process separately. This preference might be ignored by the ASPSP, if a signing basket is not supported as functionality.

If it equals "false" or if the parameter is not used, there is no preference of the TPP. This especially indicates that the TPP assumes a direct authorisation of the transaction in the next step.

Note: the ASPSP may not take it into account if it does not support it. • Boolean • OPT • E.g. TPP-Explicit-Authorisation-Preferred: false • • **Digest** • Is contained if and only if the "Signature" element is contained in the header of the request.

Boolean • OPT • E.g. TPP-Explicit-Authorisation-Preferred: false • • **Digest** • Is contained if and only if

the "Signature" element is contained in the header of the request.

OPT• E.g. TPP-Explicit-Authorisation-Preferred:
false• • **Digest**• Is contained if and only if the "Signature" element is contained in the header of the request.

E.g. TPP-Explicit-Authorisation-Preferred:
false• • **Digest**• Is contained if and only if the "Signature" element is contained in the header of the request.

• **Digest**• Is contained if and only if the "Signature" element is contained in the header of the request.

Digest• Is contained if and only if the "Signature" element is contained in the header of the request.

Is contained if and only if the "Signature" element is contained in the header of the request.

See 6.1 Signature for more

information. • String • MAN • ^.{1,100}\$

String • MAN • ^.{1,100}\$

MAN • ^.{1,100}\$

^.{1,100}\$

E.g. Digest: SHA-

256=NzdmZjA4YjY5M2M2NDYyMmVjOWFmMGNmYTZiN
TU3MjVmNDI4NTRIMzJkYzE3ZmNmMDE3ZGFmMjhhNTc
5OTU3OQ==• • **Signature**• A signature of the request
by the TPP on application level.

• **Signature**• A signature of the request by the TPP on application level.

Signature• A signature of the request by the TPP on application level.

A signature of the request by the TPP on application level.

See 6.1 Signature for more

information. • String • MAN • See annexes

String • MAN • See annexes

MAN • See annexes

See annexes

• • **TPP-Signature-Certificate**• The certificate used for signing the request, in base64 encoding.

- String• MAN• ^.{1,5000}\$
- **TPP-Signature-Certificate**• The certificate used for signing the request, in base64 encoding.
- String• MAN• ^.{1,5000}\$

TPP-Signature-Certificate• The certificate used for signing the request, in base64 encoding.

- String• MAN• ^.{1,5000}\$

The certificate used for signing the request, in base64 encoding. • String• MAN• ^.{1,5000}\$

String• MAN• ^.{1,5000}\$

MAN• ^.{1,5000}\$

^.{1,5000}\$

E.g. TPP-Signature-Certificate:

MIIHgzCCBmugAwIBAgIIZzZvBQlt0UcwDQYJ.....KoZI
hvcNAQELBQAuSTELMAkGA1UEBhMCVVMxEzARBgNVBA

- •
-

Body

The content of the Body is that defined in 5.15 SinglePayment.

3.1.1.2 Response

Header

Field• Description• Type• Man.• Format• • Location
n• Location of the created resource (if created)

- String• MAN• ^.{1,512}\$

Description• Type• Man.• Format• • Location• Location of the created resource (if created)

- String• MAN• ^.{1,512}\$

Type• Man.• Format• • Location• Location of the created resource (if created)

- String• MAN• ^.{1,512}\$

Man.• Format• • Location• Location of the created resource (if created) • String• MAN• ^.{1,512}\$

Format• • Location• Location of the created resource

(if created) • String • MAN • ^.{1,512}\$

• **Location** • Location of the created resource (if created) • String • MAN • ^.{1,512}\$

Location • Location of the created resource (if created) • String • MAN • ^.{1,512}\$

Location of the created resource (if created)

• String • MAN • ^.{1,512}\$

String • MAN • ^.{1,512}\$

MAN • ^.{1,512}\$

^.{1,512}\$

E.g. Location: /v1/payments/{payment-product}/{payment-id} • • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

• **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

X-Request-ID • ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

String • MAN • **UUID**

MAN • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7 • • **ASPSP-SCA-Approach** • This data element must be contained, if the SCA Approach is already fixed. Possible values are:

• **ASPSP-SCA-Approach** • This data element must be contained, if the SCA Approach is already fixed. Possible values are:

ASPSP-SCA-Approach • This data element must be contained, if the SCA Approach is already fixed. Possible

values are:

This data element must be contained, if the SCA Approach is already fixed. Possible values are:

- EMBEDDED
- DECOUPLED
- REDIRECT

The OAuth SCA approach will be subsumed by REDIRECT. • String • COND • E.g. ASPSP-SCA-Approach: REDIRECT • •

String • COND • E.g. ASPSP-SCA-Approach: REDIRECT • •

COND • E.g. ASPSP-SCA-Approach: REDIRECT • •

E.g. ASPSP-SCA-Approach: REDIRECT • •

•

Body

Field • Description • Type • Man. • Format • • transactionStatus • Status of the transaction.

Description • Type • Man. • Format • • transactionStatus • Status of the transaction.

Type • Man. • Format • • transactionStatus • Status of the transaction.

Man. • Format • • transactionStatus • Status of the transaction.

Format • • transactionStatus • Status of the transaction.

• **transactionStatus •** Status of the transaction.

transactionStatus • Status of the transaction.

Status of the transaction.

Values defined in annexes in 6.4 Transaction status • String • MAN • **ISO 20022**

String • MAN • **ISO 20022**

MAN • **ISO 20022**

ISO 20022

E.g. "transactionStatus":

"RCVD" • • **paymentId** • Resource identification of the generated payment initiation resource.

• **paymentId** • Resource identification of the generated payment initiation resource.

paymentId • Resource identification of the generated payment initiation resource.

Resource identification of the generated payment initiation resource.

• String • MAN • ^.{1,36}\$

String • MAN • ^.{1,36}\$

MAN • ^.{1,36}\$

^.{1,36}\$

E.g. "paymentId": "1b3ab8e8-0fd5-43d2-946e-

d75958b172e7" • • **transactionFees** • Can be used by the ASPSP to transport transaction fees relevant for the underlying payments. • Amount • OPT • E.g.

"transactionFees":

{...} • • **transactionFeeIndicator** • If equals true, the transaction will involve specific transaction cost as shown by the ASPSP in their public price list or as agreed between ASPSP and PSU.

• **transactionFees** • Can be used by the ASPSP to transport transaction fees relevant for the underlying payments. • Amount • OPT • E.g. "transactionFees": {...} • • **transactionFeeIndicator** • If equals true, the transaction will involve specific transaction cost as shown by the ASPSP in their public price list or as agreed between ASPSP and PSU.

transactionFees • Can be used by the ASPSP to transport transaction fees relevant for the underlying payments. • Amount • OPT • E.g. "transactionFees": {...} • • **transactionFeeIndicator** • If equals true, the transaction will involve specific transaction cost as shown by the ASPSP in their public price list or as agreed between ASPSP and PSU.

Can be used by the ASPSP to transport transaction fees relevant for the underlying payments.

• Amount• OPT• E.g. "transactionFees":
{...}• • **transactionFeeIndicator**• If equals true, the transaction will involve specific transaction cost as shown by the ASPSP in their public price list or as agreed between ASPSP and PSU.

Amount• OPT• E.g. "transactionFees":
{...}• • **transactionFeeIndicator**• If equals true, the transaction will involve specific transaction cost as shown by the ASPSP in their public price list or as agreed between ASPSP and PSU.

OPT• E.g. "transactionFees":
{...}• • **transactionFeeIndicator**• If equals true, the transaction will involve specific transaction cost as shown by the ASPSP in their public price list or as agreed between ASPSP and PSU.

E.g. "transactionFees":
{...}• • **transactionFeeIndicator**• If equals true, the transaction will involve specific transaction cost as shown by the ASPSP in their public price list or as agreed between ASPSP and PSU.

• **transactionFeeIndicator**• If equals true, the transaction will involve specific transaction cost as shown by the ASPSP in their public price list or as agreed between ASPSP and PSU.

transactionFeeIndicator• If equals true, the transaction will involve specific transaction cost as shown by the ASPSP in their public price list or as agreed between ASPSP and PSU.

If equals true, the transaction will involve specific transaction cost as shown by the ASPSP in their public price list or as agreed between ASPSP and PSU.

If equals false, the transaction will not involve additional specific transaction costs to the PSU.

• Boolean• OPT• E.g. "transactionFeeIndicator": true• • **scaMethods**• This data element might be contained, if SCA is required and if the PSU has a choice between different authentication methods.

Boolean• OPT• E.g. "transactionFeeIndicator": true• • **scaMethods**• This data element might be contained, if SCA is required and if the PSU has a choice between different authentication methods.

OPT• E.g. "transactionFeeIndicator":
true• • **scaMethods**• This data element might be contained, if SCA is required and if the PSU has a choice between different authentication methods.

E.g. "transactionFeeIndicator":
true• • **scaMethods**• This data element might be contained, if SCA is required and if the PSU has a choice between different authentication methods.

• **scaMethods**• This data element might be contained, if SCA is required and if the PSU has a choice between different authentication methods.

scaMethods• This data element might be contained, if SCA is required and if the PSU has a choice between different authentication methods.

This data element might be contained, if SCA is required and if the PSU has a choice between different authentication methods.

If this data element is contained, then there is also a hyperlink of type
"startAuthorisationWithAuthenticationMethodSelection" contained in the response body.

These methods shall be presented towards the PSU for selection by the TPP.

Note: Only if ASPSP supports selection of the SCA method• List<AuthenticationObject>• COND• E.g. "scaMethods": [...]• • **_links**• A list of hyperlinks to be recognised by the TPP.

List<AuthenticationObject>• COND• E.g. "scaMethods": [...]• • **_links**• A list of hyperlinks to be recognised by the TPP.

COND• E.g. "scaMethods": [...]• • **_links**• A list of hyperlinks to be recognised by the TPP.

E.g. "scaMethods": [...]• • **_links**• A list of hyperlinks to be recognised by the TPP.

• **_links**• A list of hyperlinks to be recognised by the TPP.

_links• A list of hyperlinks to be recognised by the TPP.
A list of hyperlinks to be recognised by the TPP.

Type of links admitted in this response:

- **scaRedirect**: In case of an SCA Redirect Approach, the ASPSP is transmitting the link to which to redirect the PSU browser.
- **startAuthorisation**: In case, where an explicit start of the transaction authorisation is needed, but no more data needs to be updated (no authentication method to be selected, no PSU identification nor PSU authentication data to be uploaded).
- **startAuthorisationWithAuthenticationMethodSelection**: The link to the authorisation end-point, where the authorisation sub-resource has to be generated while selecting the authentication method. This link is contained under exactly the same conditions as the data element "scaMethods"
- **self**: link to the resource created by this request.
- **status**: The link to retrieve the transaction status

- **scaStatus**: The link to retrieve the scaStatus of the corresponding authorisation sub-resource. This link is only contained, if an authorisation sub-resource has been already created.
- **Links**
 - **MAN**
 - E.g. "_links": {...}
 - **psuMessage**
 - Text to be displayed to the PSU
 - **String**
 - **OPT**
 - ^.{1,512}\$

Links

- **MAN**
 - E.g. "_links": {...}
 - **psuMessage**
 - Text to be displayed to the PSU
 - **String**
 - **OPT**
 - ^.{1,512}\$

MAN

- E.g. "_links": {...}
- **psuMessage**
 - Text to be displayed to the PSU
- **String**
 - **OPT**
 - ^.{1,512}\$

E.g. "_links": {...}

- **psuMessage**
 - Text to be displayed to the PSU
- **String**
 - **OPT**
 - ^.{1,512}\$

- **psuMessage**
 - Text to be displayed to the PSU
- **String**
 - **OPT**
 - ^.{1,512}\$

psuMessage

- Text to be displayed to the PSU

- **String**
 - **OPT**
 - ^.{1,512}\$

Text to be displayed to the PSU

- **String**
 - **OPT**
 - ^.{1,512}\$

String• OPT• ^.{1,512}\$
OPT• ^.{1,512}\$
^.{1,512}\$
E.g. "psuMessage": "Information for the
PSU"• • **tppMessages**• Message to the
TPP• List<TppMessage>• OPT• E.g. "tppMessages":
[...]
• •
• **tppMessages**• Message to the
TPP• List<TppMessage>• OPT• E.g. "tppMessages":
[...]
• •
tppMessages• Message to the
TPP• List<TppMessage>• OPT• E.g. "tppMessages":
[...]
• •
Message to the TPP• List<TppMessage>• OPT• E.g.
"tppMessages": [...]
• •
List<TppMessage>• OPT• E.g. "tppMessages": [...]
• •
OPT• E.g. "tppMessages": [...]
• •
E.g. "tppMessages": [...]
• •

3.1.1.3 Examples

Example of request for SCA via redirection

```
POST https://www.hub.com/aspsp-
name/v1/payments/sepa-credit-transfers
Content-Encoding: gzip
Content-Type: application/json
X-Request-ID: 10391c7e-ad88-49ec-a2ad-00aacb1f6541
Authorization: Bearer 2YotnFZFEjrlzCsicMWpAA
PSU-IP-Address: 192.168.8.16
PSU-IP-Port: 443
PSU-Accept: application/json
PSU-Accept-Charset: utf-8
PSU-Accept-Encoding: gzip
PSU-Accept-Language: es-ES
PSU-User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64;
rv:54.0) Gecko/20100101 Firefox/54.0
```

PSD2 – Diseño Técnico TPP

```

PSU-Http-Method: POST
PSU-Device-ID: f8b3feda-6fe3-11e8-adc0-fa7ae01bbebc
PSU-GEO-Location: GEO:12.526347;54.649862
TPP-Redirect-Preferred: true
TPP-Redirect-URI: https://www.tpp.com/cb
TPP-Nok-Redirect-URI: https://www.tpp.com/cb/nok
Date: Sun, 26 Sep 2017 15:02:37 GMT
{
  "instructedAmount": {
    "currency": "EUR",
    "amount": "153.50"
  },
  "debtorAccount": {
    "iban": "ES1111111111111111111111"
  },
  "creditorAccount": {
    "iban": "ES2222222222222222222222"
  },
  "creditorName": "Name123",
  "remittanceInformationUnstructured":
  "Additional information"
}

```

Example of response in case of a redirect with an implicitly created authorisation sub-resource

```

HTTP/1.1 201 Created
X-Request-ID: 10391c7e-ad88-49ec-a2ad-00aacb1f6541
ASPS-SCA-Approach: REDIRECT
Date: Sun, 26 Sep 2017 15:02:43 GMT
Location: /v1/payments/sepa-credit-transfers/123-qwe-456
Content-Type: application/json
{
  "transactionStatus": "RCVD",
  "paymentId": "123-qwe-456",

```

```
{
  "_links": {
    "scaRedirect": {
      "href": "https://hub.example.es/authorize "
    },
    "self": {
      "href": "/v1/payments/sepa-credit-transfers/123-qwe-456",
      "status": {
        "href": "/v1/payments/sepa-credit-transfers/123-qwe-456/status"
      },
      "scaStatus": {
        "href": "/v1/payments/sepa-credit-transfers/123-qwe-456/authorisations/123auth456"
      }
    }
  }
}
```

Example of request for decoupled SCA

```
POST https://hub.example.es/asp-name/v1/payments/sepa-credit-transfers
Content-Encoding: gzip
Content-Type: application/json
X-Request-ID: 10391c7e-ad88-49ec-a2ad-00aacb1f6541
Authorization: Bearer 2YotnFZFEjrlzCsicMWpAA
PSU-IP-Address: 192.168.8.16
PSU-IP-Port: 443
PSU-Accept: application/json
PSU-Accept-Charset: utf-8
PSU-Accept-Encoding: gzip
PSU-Accept-Language: es-ES
PSU-User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:54.0) Gecko/20100101 Firefox/54.0
PSU-Http-Method: POST
PSU-Device-ID: f8b3feda-6fe3-11e8-adc0-fa7ae01bbebc
```


PSD2 – Diseño Técnico TPP

```

PSU-GEO-Location: GEO:12.526347;54.649862
TPP-Redirect-Preferred: false
Date: Sun, 26 Sep 2017 15:02:37 GMT
{
  "instructedAmount": {
    "currency": "EUR",
    "amount": "153.50"
  },
  "debtorAccount": {
    "iban": "ES1111111111111111111111"
  },
  "creditorAccount": {
    "iban": "ES2222222222222222222222"
  },
  "creditorName": "Name123",
  "remittanceInformationUnstructured":
  "Additional information"
}

```

Example of response in case of an decoupled SCA approach with implicitly creating an authorisation sub-resource

```

HTTP/1.1 201 Created
X-Request-ID: 10391c7e-ad88-49ec-a2ad-00aacb1f6541
ASPSP-SCA-Approach: DECOUPLED
Date: Sun, 26 Sep 2017 15:02:43 GMT
Location: /v1/payments/sepa-credit-transfers/123-qwe-456
Content-Type: application/json
{
  "transactionStatus": "RCVD",
  "paymentId": "123-qwe-456",
  "_links": {
    "self": {
      "href": "/v1/payments/sepa-credit-transfers/123-qwe-456"
    }
  }
}

```

```

    },
    "status": {
      "href": "/v1/payments/sepa-credit-
transfers/123-qwe-456/status"
    },
    "scaStatus": {
      "href": "/v1/payments/sepa-credit-
transfers/123-qwe-456/authorisations/123auth456"
    }
  },
  "psuMessage": "Please use your XXX Bank app to
authorise the payment"
}

```



3.1.2 GET PAYMENT STATUS

This message is sent by the TPP to the HUB to request information on the status of the payment initiation requested by the TPP.

3.1.2.1 Request

Endpoint

GET {provider}/{aspsp}/v1/{payment-service}/{payment-product}/{paymentId}/status

Path

Field • Description • Type • Man. • Format • • provide

Ref RS.SSECT.OTR.0000

15/09/2021

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• **URL** of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** • Possible values are:

Description • **Type** • **Man.** • **Format** • • **provider** • URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** • Possible values are:

Type • **Man.** • **Format** • • **provider** • URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** • Possible values are:

Man. • **Format** • • **provider** • URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** • Possible values are:

Format • • **provider** • URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** • Possible values are:

• **provider** • URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** • Possible values are:

provider • URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** • Possible values are:

URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** • Possible values are:

String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g.

aspsp-name • • **payment-service** Possible values are:
MAN • E.g. www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** Possible values are:
E.g. www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** Possible values are:
• **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** Possible values are:
aspsp Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** Possible values are:
Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** Possible values are:
String • MAN • E.g. aspsp-name • • **payment-service** Possible values are:
MAN • E.g. aspsp-name • • **payment-service** Possible values are:
E.g. aspsp-name • • **payment-service** Possible values are:
• **payment-service** Possible values are:
payment-service Possible values are:
Possible values are:
• payments
• bulk-payments
• periodic-payments • String • MAN • E.g. {provider}/{aspsp}/v1/payments • • **payment-product** Payment product to be used. List of supported products:
String • MAN • E.g. {provider}/{aspsp}/v1/payments • • **payment-product** Payment product to be used. List of supported products:
MAN • E.g. {provider}/{aspsp}/v1/payments • • **payment-product** Payment product to be used. List of supported products:
E.g. {provider}/{aspsp}/v1/payments • • **payment-product** Payment product to be used. List of supported products:

• **payment-product** Payment product to be used. List of supported products:

payment-product Payment product to be used. List of supported products:

Payment product to be used. List of supported products:

- sepa-credit-transfers
 - instant-sepa-credit-transfers
 - target-2-payments
 - cross-border-credit-transfers
- String • MAN • E.g. {provider}/{aspsp}/v1/payments/sepa-credit-transfers/ • • **paymentId** Resource Identification of the related payment.

String • MAN • E.g. {provider}/{aspsp}/v1/payments/sepa-credit-transfers/ • • **paymentId** Resource Identification of the related payment.

MAN • E.g. {provider}/{aspsp}/v1/payments/sepa-credit-transfers/ • • **paymentId** Resource Identification of the related payment.

E.g. {provider}/{aspsp}/v1/payments/sepa-credit-transfers/ • • **paymentId** Resource Identification of the related payment.

• **paymentId** Resource Identification of the related payment.

paymentId Resource Identification of the related payment.

Resource Identification of the related payment.

Sent previously as a response to a message initiating payment by the TPP to the HUB. • String • MAN • ^.{1,36}\$

String • MAN • ^.{1,36}\$

MAN • ^.{1,36}\$

^.{1,36}\$

E.g. 1234-qwer-5678 • •

•

Query parameters

No additional fields are specified.

Header

Field • **Description** • **Type** • **Man.** • **Format** • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

Description • **Type** • **Man.** • **Format** • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Type • **Man.** • **Format** • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Man. • **Format** • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

Format • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

• **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

X-Request-ID • ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

String • MAN • **UUID**

MAN • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7 • **Authorisation** • Bearer Token.

Obtained in a prior authentication on

OAuth2. • String • MAN • E.g.

• **Authorisation** • Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

Authorisation • Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

String • MAN • E.g.

MAN • E.g.

E.g.

Authorisation: Bearer

2YotnFZFEjr1zCsicMWpAA • • **Accept** • Response format supported. Supported values:

• **Accept** • Response format supported. Supported values:

Accept • Response format supported. Supported values:

Response format supported. Supported values:

- application/json • String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^.{1,50}\$

E.g. Accept: application/json • • **PSU-IP-Address** • The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

• **PSU-IP-Address** • The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

PSU-IP-Address • The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

between PSU and TPP.

If not available, the TPP shall use the IP Address used by the TPP when submitting this request.

- String • OPT • ^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-

9]{1,3}\$

String• OPT• ^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$

OPT• ^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$

^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$

E.g.

PSU-IP-Address: 192.168.16.5 • • **PSU-IP-Port** The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available. • String• OPT• ^\\d{1,5}\$

• **PSU-IP-Port** The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available.

• String• OPT• ^\\d{1,5}\$

PSU-IP-Port The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available.

• String• OPT• ^\\d{1,5}\$

The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available. • String• OPT• ^\\d{1,5}\$

String• OPT• ^\\d{1,5}\$

OPT• ^\\d{1,5}\$

^\\d{1,5}\$

E.g. PSU-IP-Port: 443 • • **PSU-Accept** The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available. • String• OPT• ^.{1,50}\$

• **PSU-Accept** The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

• String• OPT• ^.{1,50}\$

PSU-Accept The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

• String• OPT• ^.{1,50}\$

The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields

between PSU and TPP, if available.

• String• OPT• ^.{1,50}\$

String• OPT• ^.{1,50}\$

OPT• ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept: application/json• • **PSU-Accept-Charset**• Accept charset header of the HTTP request between PSU and the TPP• String• OPT• ^.{1,50}\$

• **PSU-Accept-Charset**• Accept charset header of the HTTP request between PSU and the TPP• String• OPT• ^.{1,50}\$

PSU-Accept-Charset• Accept charset header of the HTTP request between PSU and the TPP• String• OPT• ^.{1,50}\$

Accept charset header of the HTTP request between PSU and the TPP• String• OPT• ^.{1,50}\$

String• OPT• ^.{1,50}\$

OPT• ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept-Charset: utf-8• • **PSU-Accept-Encoding**• Accept encoding header of the HTTP request between PSU and the TPP• String• OPT• ^.{1,50}\$

• **PSU-Accept-Encoding**• Accept encoding header of the HTTP request between PSU and the TPP• String• OPT• ^.{1,50}\$

PSU-Accept-Encoding• Accept encoding header of the HTTP request between PSU and the TPP• String• OPT• ^.{1,50}\$

Accept encoding header of the HTTP request between PSU and the TPP• String• OPT• ^.{1,50}\$

String• OPT• ^.{1,50}\$

OPT• ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept-Encoding: gzip• • **PSU-Accept-Language**• Accept language header of the HTTP request between PSU and the

TPP. • String • OPT • ^.{1,50}\$

• **PSU-Accept-Language** • Accept language header of the HTTP request between PSU and the

TPP. • String • OPT • ^.{1,50}\$

PSU-Accept-Language • Accept language header of the HTTP request between PSU and the

TPP. • String • OPT • ^.{1,50}\$

Accept language header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^.{1,50}\$

E.g. PSU-Accept-Language: es-ES • • **PSU-User-**

Agent • The forwarded Agent header field of the HTTP request between PSU and TPP, if available.

• String • OPT • E.g.

• **PSU-User-Agent** • The forwarded Agent header field of the HTTP request between PSU and TPP, if available.

• String • OPT • E.g.

PSU-User-Agent • The forwarded Agent header field of the HTTP request between PSU and TPP, if available.

• String • OPT • E.g.

The forwarded Agent header field of the HTTP request between PSU and TPP, if available. • String • OPT • E.g.

String • OPT • E.g.

OPT • E.g.

E.g.

PSU-User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.5) Gecko/20091102 Firefox/3.5.5 (.NET CLR 3.5.30729) • • **PSU-Http-Method** • HTTP method used at the PSU – TPP interface, if available.

• **PSU-Http-Method** • HTTP method used at the PSU – TPP interface, if available.

PSU-Http-Method • HTTP method used at the PSU – TPP interface, if available.

HTTP method used at the PSU – TPP interface, if available.

Valid values are:

- GET
- POST
- PUT
- PATCH
- DELETE • String • OPT • E.g. PSU-Http-Method: GET • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

String • OPT • E.g. PSU-Http-Method: GET • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

OPT • E.g. PSU-Http-Method: GET • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

E.g. PSU-Http-Method: GET • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

• **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

PSU-Device-ID • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

UUID identifies either a device or a device dependant application installation. In case of an installation identification this ID need to be unaltered until removal from device. • String • OPT • **UUID**

String • OPT • **UUID**

OPT • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

PSU-Device-ID: 5b3ab8e8-0fd5-43d2-946e-

d75958b172e7 • • **PSU-Geo-Location** • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String • OPT • **RFC 2426**

• **PSU-Geo-Location** • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String • OPT • **RFC 2426**

PSU-Geo-Location • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String • OPT • **RFC 2426**

The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available.

• String • OPT • **RFC 2426**

String • OPT • **RFC 2426**

OPT • **RFC 2426**

RFC 2426

^GEO:[\\d]*.[\\d]*[;][\\d]*.[\\d]*\$

E.g.

PSU-Geo-Location:

GEO:90.023856;25.345963 • • **Digest** • Is contained if and only if the "Signature" element is contained in the header of the request.

• **Digest** • Is contained if and only if the "Signature" element is contained in the header of the request.

Digest • Is contained if and only if the "Signature" element is contained in the header of the request.

Is contained if and only if the "Signature" element is contained in the header of the request.

See 6.1 Signature for more information. • String • MAN • ^.{1,100}\$

String • MAN • ^.{1,100}\$

MAN • ^.{1,100}\$

^.{1,100}\$

E.g. Digest: SHA-

256=NzdmZjA4YjY5M2M2NDYyMmVjOWFmMGNmYTZiNTU3MjVmNDI4NTRIMzJkYzE3ZmNmMDE3ZGFmMjhhNTc5OTU3OQ== • • **Signature** • A signature of the request

by the TPP on application level.

• **Signature**• A signature of the request by the TPP on application level.

Signature• A signature of the request by the TPP on application level.

A signature of the request by the TPP on application level.

See 6.1 Signature for more information.
• String• MAN• See annexes
String• MAN• See annexes
MAN• See annexes
See annexes

• • **TPP-Signature-Certificate**• The certificate used for signing the request, in base64 encoding.

• String• MAN• $\wedge.\{1,5000\}$ \$

• **TPP-Signature-Certificate**• The certificate used for signing the request, in base64 encoding.

• String• MAN• $\wedge.\{1,5000\}$ \$

TPP-Signature-Certificate• The certificate used for signing the request, in base64 encoding.

• String• MAN• $\wedge.\{1,5000\}$ \$

The certificate used for signing the request, in base64 encoding. • String• MAN• $\wedge.\{1,5000\}$ \$

String• MAN• $\wedge.\{1,5000\}$ \$

MAN• $\wedge.\{1,5000\}$ \$

$\wedge.\{1,5000\}$ \$

E.g. TPP-Signature-Certificate:

MIIHgzCCBmugAwIBAgIIZzZvBQlt0UcwDQYJ.....KoZI
hvcNAQELBQAuSTELMAkGA1UEBhMCVVMxEzARBgNVBA

• •

•

Body

No additional data are specified.

3.1.2.2 Response

Header

Field• Description• Type• Man.• Format• • X-Request-ID• ID of the request, unique to the call, as determined by the initiating party.

Description• Type• Man.• Format• • X-Request-ID• ID of the request, unique to the call, as determined by the initiating party.

Type• Man.• Format• • X-Request-ID• ID of the request, unique to the call, as determined by the initiating party.

Man.• Format• • X-Request-ID• ID of the request, unique to the call, as determined by the initiating party.

Format• • X-Request-ID• ID of the request, unique to the call, as determined by the initiating party.

• X-Request-ID• ID of the request, unique to the call, as determined by the initiating party.

X-Request-ID• ID of the request, unique to the call, as determined by the initiating party.

ID of the request, unique to the call, as determined by the initiating party.

• String• MAN• **UUID**

String• MAN• **UUID**

MAN• **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7• •

•

Body

Field• Description• Type• Man.• Format• • transaction Status• Status of the payment transaction.

Description• Type• Man.• Format• • transactionStatus• Status of the payment transaction.

Type • Man. • Format • • transactionStatus • Status of the payment transaction.

Man. • Format • • transactionStatus • Status of the payment transaction.

Format • • transactionStatus • Status of the payment transaction.

• transactionStatus • Status of the payment transaction.

transactionStatus • Status of the payment transaction.
Status of the payment transaction.

Values defined in 6.4 Transaction status • String • MAN • **ISO20022**

String • MAN • **ISO20022**

MAN • **ISO20022**

ISO20022

E.g.

"transactionStatus": "ACCP" • **• fundsAvailable •** This data element is contained, if supported by the ASPSP, if a funds check has been performed and if the transactionStatus is:

• fundsAvailable • This data element is contained, if supported by the ASPSP, if a funds check has been performed and if the transactionStatus is:

fundsAvailable • This data element is contained, if supported by the ASPSP, if a funds check has been performed and if the transactionStatus is:

This data element is contained, if supported by the ASPSP, if a funds check has been performed and if the transactionStatus is:

- ATCT
- ACWC
- ACCP • Boolean • COND • E.g.

Boolean • COND • E.g.

COND • E.g.

E.g.

"fundsAvailable": true • • **psuMessage** • Text to show to the PSU. • String • OPT • ^.{1,512}\$

• **psuMessage** • Text to show to the PSU. • String • OPT • ^.{1,512}\$

psuMessage • Text to show to the PSU. • String • OPT • ^.{1,512}\$

Text to show to the PSU. • String • OPT • ^.{1,512}\$

String • OPT • ^.{1,512}\$

OPT • ^.{1,512}\$

^.{1,512}\$

E.g. "psuMessage": "Information for PSU" • • **tppMessages** • Message for the TPP • List<TppMessage> • OPT • E.g.

"tppMessages": [...] • •

• **tppMessages** • Message for the TPP • List<TppMessage> • OPT • E.g.

"tppMessages": [...] • •

tppMessages • Message for the TPP • List<TppMessage> • OPT • E.g.

"tppMessages": [...] • •

Message for the TPP • List<TppMessage> • OPT • E.g.

"tppMessages": [...] • •

List<TppMessage> • OPT • E.g. "tppMessages": [...] • •

OPT • E.g. "tppMessages": [...] • •

E.g. "tppMessages": [...] • •

•

3.1.2.3 Examples

Example of request

GET <https://www.hub.com/aspsp-name/v1/payments/sepa-credit-transfer/123asdf456/status>

Accept: application/json

X-Request-ID: 96201400-6ff9-11e8-adc0-fa7ae01bbebc

Authorization: Bearer 2YotnFZFEjrlzCsicMWpAA

PSU-IP-Address: 192.168.8.16

PSU-IP-Port: 443

PSU-Accept: application/json

```
PSU-Accept-Charset: utf-8
PSU-Accept-Encoding: gzip
PSU-Accept-Language: es-ES
PSU-User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:54.0) Gecko/20100101 Firefox/54.0
PSU-Http-Method: GET
PSU-Device-ID: f8b3feda-6fe3-11e8-adc0-fa7ae01bbebc
PSU-GEO-Location: GEO:12.526347;54.649862
Date: Sun, 26 Sep 2017 15:02:48 GMT
```

Example of response

```
HTTP/1.1 200 OK
X-Request-ID: 96201400-6ff9-11e8-adc0-fa7ae01bbebc
Date: Sun, 26 Sep 2017 15:02:50 GMT
Content-Type: application/json
{
  "transactionStatus": "ACCP",
  "fundsAvailable": true
}
```

3.1.3 GET PAYMENT INITIATION

This message is sent by the TPP through the HUB to the ASPSP to obtain the information of a payment initiation.

3.1.3.1 Request

Endpoint

GET {provider}/{aspsp}/v1/{payment-service}/{payment-product}/{paymentId}

Path

Field • Description • Type • Man. • Format • • provide
r • URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-

name • • **payment-service** Possible values are:

Description • **Type** • **Man.** • **Format** • • **provider** URL of the HUB where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-

name • • **payment-service** Possible values are:

Type • **Man.** • **Format** • • **provider** URL of the HUB where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-

name • • **payment-service** Possible values are:

Man. • **Format** • • **provider** URL of the HUB where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-

name • • **payment-service** Possible values are:

Format • • **provider** URL of the HUB where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-

name • • **payment-service** Possible values are:

• **provider** URL of the HUB where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-

name • • **payment-service** Possible values are:

provider URL of the HUB where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-

name • • **payment-service** Possible values are:

URL of the HUB where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-

name • • **payment-service** Possible values are:

String • MAN • E.g. www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g.

aspsp-name • • **payment-service** Possible values are:

MAN • E.g. www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-

name • • **payment-service** Possible values are:

E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** • Possible values are:

• **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** • Possible values are:

aspsp • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** • Possible values are:

Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** • Possible values are:

String • MAN • E.g. aspsp-name • • **payment-service** • Possible values are:

MAN • E.g. aspsp-name • • **payment-service** • Possible values are:

E.g. aspsp-name • • **payment-service** • Possible values are:

• **payment-service** • Possible values are:

payment-service • Possible values are:

Possible values are:

- payments
- bulk-payments
- periodic-payments • String • MAN • E.g.

{provider}/{aspsp}/v1/payments • • **payment-product** • Payment product to be used. List of supported products:

String • MAN • E.g.

{provider}/{aspsp}/v1/payments • • **payment-product** • Payment product to be used. List of supported products:

MAN • E.g.

{provider}/{aspsp}/v1/payments • • **payment-product** • Payment product to be used. List of supported products:

E.g. {provider}/{aspsp}/v1/payments • • **payment-product** • Payment product to be used. List of supported products:

• **payment-product** • Payment product to be used. List of supported products:

payment-product • Payment product to be used. List of supported products:

Payment product to be used. List of supported products:

- sepa-credit-transfers
 - instant-sepa-credit-transfers
 - target-2-payments
 - cross-border-credit-transfers
- String • MAN • E.g. {provider}/{aspsp}/v1/payments/sepa-credit-transfers/ • • **paymentId** • Resource Identification of the related payment.

String • MAN • E.g. {provider}/{aspsp}/v1/payments/sepa-credit-transfers/ • • **paymentId** • Resource Identification of the related payment.

MAN • E.g. {provider}/{aspsp}/v1/payments/sepa-credit-transfers/ • • **paymentId** • Resource Identification of the related payment.

E.g. {provider}/{aspsp}/v1/payments/sepa-credit-transfers/ • • **paymentId** • Resource Identification of the related payment.

• **paymentId** • Resource Identification of the related payment.

paymentId • Resource Identification of the related payment.

Resource Identification of the related payment.

Sent previously as a response to a message initiating payment by the TPP to the

HUB. • String • MAN • ^.{1,36}\$

String • MAN • ^.{1,36}\$

MAN • ^.{1,36}\$

^.{1,36}\$

E.g. 1234-qwer-5678 • •

•

Query parameters

No additional fields are specified.

Header

Field • Description • Type • Man. • Format • • X-

Ref **RS.SSECT.OTR.0000**

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Request-ID ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

Description • **Type** • **Man.** • **Format** • • **X-Request-ID** ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Type • **Man.** • **Format** • • **X-Request-ID** ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Man. • **Format** • • **X-Request-ID** ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Format • • **X-Request-ID** ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

• **X-Request-ID** ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

X-Request-ID ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

String • MAN • **UUID**

MAN • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7 • • **Authorisation** Bearer Token.

Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

• **Authorisation** Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

Authorisation Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

Bearer Token. Obtained in a prior authentication on

OAuth2. • String • MAN • E.g.

String • MAN • E.g.

MAN • E.g.

E.g.

Authorisation: Bearer

2YotnFZFEjr1zCsicMWpAA • • **PSU-IP-Address** • The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

• **PSU-IP-Address** • The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

PSU-IP-Address • The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

between PSU and TPP.

If not available, the TPP shall use the IP Address used by the TPP when submitting this request.

• String • OPT • $^{[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}}\$$

String • OPT • $^{[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}}\$$

OPT • $^{[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}}\$$

$^{[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}}\$$

E.g.

PSU-IP-Address: 192.168.16.5 • • **PSU-IP-Port** • The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available. • String • OPT • $^{\\d\{1,5\}}\$$

• **PSU-IP-Port** • The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available.

• String • OPT • $^{\\d\{1,5\}}\$$

PSU-IP-Port • The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available.

- String• OPT• ^\\d{1,5}\$

The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available. • String• OPT• ^\\d{1,5}\$

String• OPT• ^\\d{1,5}\$

OPT• ^\\d{1,5}\$

^\\d{1,5}\$

E.g. PSU-IP-Port: 443 • • **PSU-Accept**• The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available. • String• OPT• ^.{1,50}\$

• **PSU-Accept**• The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

- String• OPT• ^.{1,50}\$

PSU-Accept• The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

- String• OPT• ^.{1,50}\$

The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

- String• OPT• ^.{1,50}\$

String• OPT• ^.{1,50}\$

OPT• ^.{1,50}\$

^.{1,50}\$

E.g. PSU-Accept: application/json • • **PSU-Accept-Charset**• Accept charset header of the HTTP request between PSU and the TPP• String• OPT• ^.{1,50}\$

• **PSU-Accept-Charset**• Accept charset header of the HTTP request between PSU and the TPP• String• OPT• ^.{1,50}\$

PSU-Accept-Charset• Accept charset header of the HTTP request between PSU and the TPP• String• OPT• ^.{1,50}\$

Accept charset header of the HTTP request between PSU and the TPP• String• OPT• ^.{1,50}\$

String• OPT• ^.{1,50}\$

OPT• ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept-Charset: utf-8• • **PSU-Accept-Encoding**• Accept encoding header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

• **PSU-Accept-Encoding**• Accept encoding header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

PSU-Accept-Encoding• Accept encoding header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

Accept encoding header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

String• OPT• ^.{1,50}\$

OPT• ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept-Encoding: gzip• • **PSU-Accept-Language**• Accept language header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

• **PSU-Accept-Language**• Accept language header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

PSU-Accept-Language• Accept language header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

Accept language header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

String• OPT• ^.{1,50}\$

OPT• ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept-Language: es-ES• • **PSU-User-Agent**• The forwarded Agent header field of the HTTP request between PSU and TPP, if available.

• String• OPT• E.g.

• **PSU-User-Agent**• The forwarded Agent header field

of the HTTP request between PSU and TPP, if available.

• String • OPT • E.g.

PSU-User-Agent • The forwarded Agent header field of the HTTP request between PSU and TPP, if available.

• String • OPT • E.g.

The forwarded Agent header field of the HTTP request between PSU and TPP, if available. • String • OPT • E.g.

String • OPT • E.g.

OPT • E.g.

E.g.

PSU-User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.5) Gecko/20091102 Firefox/3.5.5 (.NET CLR 3.5.30729) • • **PSU-Http-Method** • HTTP method used at the PSU – TPP interface, if available.

• **PSU-Http-Method** • HTTP method used at the PSU – TPP interface, if available.

PSU-Http-Method • HTTP method used at the PSU – TPP interface, if available.

HTTP method used at the PSU – TPP interface, if available.

Valid values are:

• GET

• POST

• PUT

• PATCH

• DELETE • String • OPT • E.g. PSU-Http-Method: GET • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

String • OPT • E.g. PSU-Http-Method: GET • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

OPT • E.g. PSU-Http-Method: GET • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

E.g. PSU-Http-Method: GET • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

• **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

PSU-Device-ID • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

UUID identifies either a device or a device dependant application installation. In case of an installation identification this ID need to be unaltered until removal from device. • String • OPT • **UUID**

String • OPT • **UUID**

OPT • **UUID**

UUID

$^{[0-9a-fA-F]\{8\}}-[0-9a-fA-F]\{4\}-[0-9a-fA-F]\{4\}-[0-9a-fA-F]\{4\}-[0-9a-fA-F]\{12\}$

E.g.

PSU-Device-ID: 5b3ab8e8-0fd5-43d2-946e-d75958b172e7 • • **PSU-Geo-Location** • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String • OPT • **RFC 2426**

• **PSU-Geo-Location** • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String • OPT • **RFC 2426**

PSU-Geo-Location • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String • OPT • **RFC 2426**

The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available.

• String • OPT • **RFC 2426**

String • OPT • **RFC 2426**

OPT • **RFC 2426**

RFC 2426

^GEO:[\\d]*.[\\d]*[;][\\d]*.[\\d]*\$

E.g.

PSU-Geo-Location:

GEO:90.023856;25.345963 • • **Digest** Is contained if and only if the "Signature" element is contained in the header of the request.

• **Digest** Is contained if and only if the "Signature" element is contained in the header of the request.

Digest Is contained if and only if the "Signature" element is contained in the header of the request.

Is contained if and only if the "Signature" element is contained in the header of the request.

See 6.1 Signature for more information. • String • MAN • ^.{1,100}\$

String • MAN • ^.{1,100}\$

MAN • ^.{1,100}\$

^.{1,100}\$

E.g. Digest: SHA-

256=NzdmZjA4YjY5M2M2NDYyMmVjOWFmMGNmYTZiNTU3MjVmNDI4NTRIMzJkYzE3ZmNmMDE3ZGFmMjhhNTc5OTU3OQ== • • **Signature** A signature of the request by the TPP on application level.

• **Signature** A signature of the request by the TPP on application level.

Signature A signature of the request by the TPP on application level.

A signature of the request by the TPP on application level.

See 6.1 Signature for more information. • String • MAN • See annexes

String • MAN • See annexes

MAN • See annexes

See annexes

• • **TPP-Signature-Certificate** The certificate used for signing the request, in base64 encoding.

• String • MAN • ^.{1,5000}\$

• **TPP-Signature-Certificate** The certificate used for signing the request, in base64 encoding.

- String • MAN • ^.{1,5000}\$

TPP-Signature-Certificate • The certificate used for signing the request, in base64 encoding.

- String • MAN • ^.{1,5000}\$

The certificate used for signing the request, in base64 encoding. • String • MAN • ^.{1,5000}\$

String • MAN • ^.{1,5000}\$

MAN • ^.{1,5000}\$

^.{1,5000}\$

E.g. TPP-Signature-Certificate:

MIIHgzCCBmugAwIBAgIIZzZvBQlt0UcwDQYJ.....KoZI
hvcNAQELBQAuSTELMAkGA1UEBhMCVVMxEzARBgNVBA

• •

•

Body

No additional data are specified.

3.1.3.2 Response

Header

Field • Description • Type • Man. • Format • • X-Request-ID • ID of the request, unique to the call, as determined by the initiating party.

- String • MAN • **UUID**

Description • Type • Man. • Format • • X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Type • Man. • Format • • X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Man. • Format • • X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Format • • X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

• **X-Request-ID** ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

X-Request-ID ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

String • MAN • **UUID**

MAN • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7 • •

•

Body

The fields to return are those requesting initiation of the original payment:

- 3.1.1 Payment initiation
- **iError! No se encuentra el origen de la referencia.**
iError! No se encuentra el origen de la referencia.
- **iError! No se encuentra el origen de la referencia.**
iError! No se encuentra el origen de la referencia.
- **iError! No se encuentra el origen de la referencia.**
iError! No se encuentra el origen de la referencia.

Plus the following:

Field • Description • Type • Man. • Format • • transactionStatus Status of the transaction. Values defined in annexes. Short code. • String • MAN • **ISO 20022**

Description • Type • Man. • Format • • transactionStatus Status of the transaction. Values defined in

annexes. Short code. • String • MAN • **ISO 20022**

Type • Man. • Format • • transactionStatus Status of the transaction. Values defined in annexes. Short code. • String • MAN • **ISO 20022**

Man. • Format • • transactionStatus Status of the transaction. Values defined in annexes. Short code. • String • MAN • **ISO 20022**

Format • • transactionStatus Status of the transaction. Values defined in annexes. Short code. • String • MAN • **ISO 20022**

• **transactionStatus** Status of the transaction. Values defined in annexes. Short code. • String • MAN • **ISO 20022**

transactionStatus Status of the transaction. Values defined in annexes. Short code. • String • MAN • **ISO 20022**

Status of the transaction. Values defined in annexes. Short code. • String • MAN • **ISO 20022**

String • MAN • **ISO 20022**

MAN • **ISO 20022**

ISO 20022

E.g. "transactionStatus": "ACCP" • • **psuMessage** Text to show to the PSU. • String • OPT • ^.{1,512}\$

• **psuMessage** Text to show to the PSU. • String • OPT • ^.{1,512}\$

psuMessage Text to show to the PSU. • String • OPT • ^.{1,512}\$

Text to show to the PSU. • String • OPT • ^.{1,512}\$

String • OPT • ^.{1,512}\$

OPT • ^.{1,512}\$

^.{1,512}\$

E.g. "psuMessage": "Information for the PSU" • • **tppMessages** Message for the TPP • List<TppMessage> • OPT • E.g. "tppMessage": [...] • • • ~~HUB~~ • • • •

• **tppMessages** Message for the TPP • List<TppMessage> • OPT • E.g. "tppMessage":

[...] • • • HUB • • • •

tppMessages • Message for the
TPP • List<TppMessage> • OPT • E.g. "tppMessage":
[...] • • • HUB • • • •

Message for the TPP • List<TppMessage> • OPT • E.g.
"tppMessage": [...] • • • HUB • • • •

List<TppMessage> • OPT • E.g. "tppMessage":
[...] • • • HUB • • • •

OPT • E.g. "tppMessage": [...] • • • HUB • • • •

E.g. "tppMessage": [...] • • • HUB • • • •

• • HUB • • • •

• HUB • • • •

HUB • • • •

• • • •

• • •

• •

•



3.1.3.3 Examples

Example of request

GET <https://www.hub.com/aspsp-name/v1/payments/sepa-credit-transfers/123-asdf-456>

Accept: application/json

X-Request-ID: 96201400-6ff9-11e8-adc0-fa7ae01bbebc

Authorization: Bearer 2YotnFZFEjrlzCsicMWpAA

PSU-IP-Address: 192.168.8.16

PSU-IP-Port: 443

PSU-Accept: application/json

PSU-Accept-Charset: utf-8

PSU-Accept-Encoding: gzip

PSU-Accept-Language: es-ES

PSU-User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:54.0) Gecko/20100101 Firefox/54.0

PSU-Http-Method: GET

PSU-Device-ID: f8b3feda-6fe3-11e8-adc0-fa7ae01bbebc

PSU-GEO-Location: GEO:12.526347;54.649862

Date: Sun, 26 Sep 2017 15:02:48 GMT

Example of response

HTTP/1.1 200 OK

X-Request-ID: 96201400-6ff9-11e8-adc0-fa7ae01bbebc

Date: Sun, 26 Sep 2017 15:02:50 GMT

Content-Type: application/json

```
{
  "instructedAmount": {
    "currency": "EUR",
    "amount": "153.50"
  },
  "debtorAccount": {
    "iban": "ES1111111111111111111111"
  },
  "creditorAccount": {
    "iban": "ES2222222222222222222222"
  },
  "creditorName": "Name123",
  "remittanceInformationUnstructured":
    "Additional information",
  "transactionStatus": "ACCP"
}
```

3.2 AIS: Establish account information consent service

3.2.1 Characteristics of the consent

3.2.1.1 Consent model

Model • Description • Detailed consent
Description • Detailed consent

- **Detailed consent**

- Detailed consent**

- **Request consent for the accounts indicated**

- Request consent for the accounts indicated**

- Create a consent, which the ASPSP must store, requesting access for the accounts indicated and with the requested access.

- If there was already consent, this consent will expire and the new agreement will enter into force when authorised by the PSU.

- The accounts for which consent is requested to access the "balances" and/or "transactions" are also assumed to have the "accounts" access type.

- • **Global consent**

- **Global consent**

- Global consent**

- **Request consent for the list of available accounts**

- Request consent for the list of available accounts**

- This functionality only serves to request consent for the list of available PSU accounts. It does not give consent for "accounts", "balances" and/or "transactions".

- This request does not indicate the accounts for which access is wanted. It indicates that it is requested for "all available accounts", indicating in the access the "availableAccounts" or "availableAccountsWithBalances" with the value "allAccounts".

- It is a once-time-only consent to obtain the list of available accounts. It will not give details of the accounts.

- Request consent to obtain access to all the accounts for all the PSD2 AIS services**

- Request access for all the PSU accounts available on all the PSD2 AIS services.

- The accounts are not indicated by the TPP.

- This request does not indicate the accounts for which access is wanted. The request is indicated as being for "all PSD2 accounts", indicating in the access the "allPsd2" attribute with the value "allAccounts".

Through the HUB, the TPP may recover this information managed between ASPSP and PSU, making a request to recover consent information.

- • **Bank-offered consent**
- **Bank-offered consent**

Bank-offered consent

- **Request consent without indicating the accounts**

Request consent without indicating the accounts

Request consent to access "accounts", "balances" and/or "transactions" without indicating the accounts. Thus the "accounts", "balances" and "transactions" attributes will include a blank array.

To select the accounts that will be provided, access must be obtained bilaterally between ASPSP and PSU through the ASPSP interface in the OAuth redirect flow.

In the redirection process, the ASPSP will show the PSU its accounts so that the PSU can choose which to provide consent for to the TPP.

Through the HUB, the TPP may recover this information managed between ASPSP and PSU, making a request to recover consent information.

- •
-

3.2.1.2 Recurring access

Recurring consents

If there is already a prior consent with recurring access (recurringIndicator=true) and a new consent request is sent with recurring access, as soon as the new consent is accepted by the PSU, the prior consent will expire and only the new requested consent will be valid.

A consent with recurring access may have one or more accounts with different types of access ("accounts", "balances", "transactions")

Note: giving access to "balances" and/or "transactions" automatically grants "accounts" access to these accounts.

Non-recurring consents

A consent request for non-recurring access (once-only and with recurringIndicator=false) will be treated as a new consent (new consentId) without affecting previous existing consents.

3.2.2 Account information consent

With this service, a TPP may request consent through the HUB to access the PSU accounts. This request may be for indicated accounts or not.

That is why the consent request has these variants:

- Establish consent for account information on the indicated accounts
- Establish account information consent to obtain a list of all available accounts
- Establish consent for account information without indicating the accounts
- Establish account information consent to obtain access to all accounts for all types of PSD2 AIS access: "accounts", "balances" and/or "transactions"

Note: each consent information will generate a new resource, i.e. a new consentId.

3.2.2.1 Request

Endpoint

POST {provider}/{aspsp}/v1/consents

Path

Field • **Description** • **Type** • **Man.** • **Format** • **provide**
r • URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name •

Description • **Type** • **Man.** • **Format** • **provider** • URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • **aspsp** • Name of the ASPSP to which

the request is made. • String • MAN • E.g. aspsp-name • •

Type • Man. • Format • • provider URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

Man. • Format • • provider URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

Format • • provider URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

• **provider** URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

provider URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

String • MAN • E.g. www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

MAN • E.g. www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

E.g. www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-

name • •

• **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

aspsp • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

String • MAN • E.g. aspsp-name • •

MAN • E.g. aspsp-name • •

E.g. aspsp-name • •

•

Query parameters

No additional fields are specified.

Header

Field • Description • Type • Man. • Format • • X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. Unique transaction identifier assigned by the TPP. • String • MAN • **UUID**

Description • Type • Man. • Format • • X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. Unique transaction identifier assigned by the TPP. • String • MAN • **UUID**

Type • Man. • Format • • X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. Unique transaction identifier assigned by the TPP. • String • MAN • **UUID**

Man. • Format • • X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. Unique transaction identifier assigned by the TPP. • String • MAN • **UUID**

Format • • X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. Unique transaction identifier assigned by the TPP. • String • MAN • **UUID**

• **X-Request-ID •** ID of the request, unique to the call,

as determined by the initiating party. Unique transaction identifier assigned by the TPP. • String • MAN • **UUID**

X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. Unique transaction identifier assigned by the TPP. • String • MAN • **UUID**

ID of the request, unique to the call, as determined by the initiating party. Unique transaction identifier assigned by the TPP. • String • MAN • **UUID**

String • MAN • **UUID**

MAN • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-

d75958b172e7 • • **Authorisation** • Bearer Token.

Obtained in a prior authentication on OAuth2.Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

• **Authorisation** • Bearer Token. Obtained in a prior authentication on OAuth2.Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

Authorisation • Bearer Token. Obtained in a prior authentication on OAuth2.Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

Bearer Token. Obtained in a prior authentication on OAuth2.Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

String • MAN • E.g.

MAN • E.g.

E.g.

Authorisation: Bearer

2YotnFZFEjr1zCsicMWpAA • • **PSU-IP-Address** • The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

• **PSU-IP-Address** • The forwarded IP Address header field consists of the corresponding HTTP request IP

Address field

PSU-IP-Address• The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

The forwarded IP Address header field consists of the corresponding HTTP request IP Address field between PSU and TPP.

If not available, the TPP shall use the IP Address used by the TPP when submitting this request.

• String• OPT• $^{[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}}\$$

String• OPT• $^{[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}}\$$

OPT• $^{[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}}\$$

$^{[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}}\$$

E.g.

PSU-IP-Address: 192.168.16.5• • **PSU-IP-Port**• The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available. • String• OPT• $^{\\d\{1,5\}}\$$

• **PSU-IP-Port**• The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available.

• String• OPT• $^{\\d\{1,5\}}\$$

PSU-IP-Port• The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available.

• String• OPT• $^{\\d\{1,5\}}\$$

The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available. • String• OPT• $^{\\d\{1,5\}}\$$

String• OPT• $^{\\d\{1,5\}}\$$

OPT• $^{\\d\{1,5\}}\$$

$^{\\d\{1,5\}}\$$

E.g. PSU-IP-Port: 443• • **PSU-Accept**• The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if

available..• String• OPT• ^.{1,50}\$

• **PSU-Accept**• The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available..• String• OPT• ^.{1,50}\$

PSU-Accept• The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available..• String• OPT• ^.{1,50}\$

The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available..• String• OPT• ^.{1,50}\$

String• OPT• ^.{1,50}\$

OPT• ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept: application/json• • **PSU-Accept-Charset**• Accept charset header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

• **PSU-Accept-Charset**• Accept charset header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

PSU-Accept-Charset• Accept charset header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

Accept charset header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

String• OPT• ^.{1,50}\$

OPT• ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept-Charset: utf-8• • **PSU-Accept-Encoding**• Accept encoding header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

• **PSU-Accept-Encoding**• Accept encoding header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

PSU-Accept-Encoding• Accept encoding header of the HTTP request between PSU and the

TPP. • String • OPT • ^.{1,50}\$

Accept encoding header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^.{1,50}\$

E.g. PSU-Accept-Encoding: gzip • • **PSU-Accept-Language** • Accept language header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

• **PSU-Accept-Language** • Accept language header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

PSU-Accept-Language • Accept language header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

Accept language header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^.{1,50}\$

E.g. PSU-Accept-Language: es-ES • • **PSU-User-Agent** • The forwarded Agent header field of the HTTP request between PSU and TPP, if available.

• String • OPT • E.g.

• **PSU-User-Agent** • The forwarded Agent header field of the HTTP request between PSU and TPP, if available. • String • OPT • E.g.

PSU-User-Agent • The forwarded Agent header field of the HTTP request between PSU and TPP, if available. • String • OPT • E.g.

The forwarded Agent header field of the HTTP request between PSU and TPP, if available. • String • OPT • E.g.

String • OPT • E.g.

OPT • E.g.

E.g.

PSU-User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.5) Gecko/20091102 Firefox/3.5.5 (.NET CLR 3.5.30729) • • **PSU-Http-Method** HTTP method used at the PSU – TPP interface, if available.

• **PSU-Http-Method** HTTP method used at the PSU – TPP interface, if available.

PSU-Http-Method HTTP method used at the PSU – TPP interface, if available.

HTTP method used at the PSU – TPP interface, if available.

Valid values are:

- GET
- POST
- PUT
- PATCH

DELETE

• • String • OPT • E.g. PSU-Http-Method: POST • • **PSU-Device-ID** UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

String • OPT • E.g. PSU-Http-Method: POST • • **PSU-Device-ID** UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

OPT • E.g. PSU-Http-Method: POST • • **PSU-Device-ID** UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

E.g. PSU-Http-Method: POST • • **PSU-Device-ID** UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

• **PSU-Device-ID** UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

PSU-Device-ID UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

UUID identifies either a device or a device dependant application installation. In case of an installation identification this ID need to be unaltered until removal from device. UUID

• String • OPT • **UUID**

String • OPT • **UUID**

OPT • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

PSU-Device-ID: 5b3ab8e8-0fd5-43d2-946e-

d75958b172e7 • • **PSU-Geo-Location** • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String • OPT • **RFC 2426**

• **PSU-Geo-Location** • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String • OPT • **RFC 2426**

PSU-Geo-Location • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String • OPT • **RFC 2426**

The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available.

• String • OPT • **RFC 2426**

String • OPT • **RFC 2426**

OPT • **RFC 2426**

RFC 2426

^GEO:[\\d]*.[\\d]*[;][\\d]*.[\\d]*\$

E.g.

PSU-Geo-Location: GEO:90.023856;25.345963 • • **TPP-Redirect-Preferred** • If it equals "true", the TPP prefers a redirect over an embedded SCA approach.

• **TPP-Redirect-Preferred** • If it equals "true", the TPP prefers a redirect over an embedded SCA approach.

TPP-Redirect-Preferred • If it equals "true", the TPP

prefers a redirect over an embedded SCA approach.

If it equals "true", the TPP prefers a redirect over an embedded SCA approach.

If it equals "false", the TPP prefers not to be redirected for SCA. The ASPSP will then choose between the Embedded or the Decoupled SCA approach, depending on the choice of the SCA procedure by the TPP/PSU.

If the parameter is not used, the ASPSP will choose the SCA approach to be applied depending on the SCA method chosen by the TPP/PSU.

EMBEDDED NOT SUPPORTED IN THIS VERSION

• Boolean • OPT • E.g. TPP-Redirect-Preferred: true • • **TPP-Redirect-URI** • URI of the TPP, where the transaction flow shall be redirected to after a Redirect. Mandated for the Redirect SCA Approach, specifically when TPP-Redirect-Preferred equals "true".

Boolean • OPT • E.g. TPP-Redirect-Preferred: true • • **TPP-Redirect-URI** • URI of the TPP, where the transaction flow shall be redirected to after a Redirect. Mandated for the Redirect SCA Approach, specifically when TPP-Redirect-Preferred equals "true".

OPT • E.g. TPP-Redirect-Preferred: true • • **TPP-Redirect-URI** • URI of the TPP, where the transaction flow shall be redirected to after a Redirect. Mandated for the Redirect SCA Approach, specifically when TPP-Redirect-Preferred equals "true".

E.g. TPP-Redirect-Preferred: true • • **TPP-Redirect-URI** • URI of the TPP, where the transaction flow shall be redirected to after a Redirect. Mandated for the Redirect SCA Approach, specifically when TPP-Redirect-Preferred equals "true".

• **TPP-Redirect-URI** • URI of the TPP, where the transaction flow shall be redirected to after a Redirect. Mandated for the Redirect SCA Approach, specifically when TPP-Redirect-Preferred equals "true".

TPP-Redirect-URI • URI of the TPP, where the transaction flow shall be redirected to after a Redirect. Mandated for the Redirect SCA Approach, specifically when TPP-Redirect-Preferred equals "true".

URI of the TPP, where the transaction flow shall be

redirected to after a Redirect. Mandated for the Redirect SCA Approach, specifically when TPP-Redirect-Preferred equals "true".

It is recommended to always use this header field.

Remark for Future: This field might be changed to mandatory in the next version of the specification.

• String• COND• ^.{1,250}\$

String• COND• ^.{1,250}\$

COND• ^.{1,250}\$

^{1,250}\$

E.g. TPP-Redirect-

URI:"https://tpp.example.es/cb"• • **TPP-Nok-**

Redirect-URI• If this URI is contained, the TPP is asking to redirect the transaction flow to this address instead of the TPP-Redirect-URI in case of a negative result of the redirect SCA method. This might be ignored by the ASPSP. • String• OPT• ^.{12,50}\$

• **TPP-Nok-Redirect-URI**• If this URI is contained, the TPP is asking to redirect the transaction flow to this address instead of the TPP-Redirect-URI in case of a negative result of the redirect SCA method. This might be ignored by the ASPSP. • String• OPT• ^.{12,50}\$

TPP-Nok-Redirect-URI• If this URI is contained, the TPP is asking to redirect the transaction flow to this address instead of the TPP-Redirect-URI in case of a negative result of the redirect SCA method. This might be ignored by the ASPSP. • String• OPT• ^.{12,50}\$

If this URI is contained, the TPP is asking to redirect the transaction flow to this address instead of the TPP-Redirect-URI in case of a negative result of the redirect SCA method. This might be ignored by the ASPSP.

• String• OPT• ^.{12,50}\$

String• OPT• ^.{12,50}\$

OPT• ^.{12,50}\$

^{12,50}\$

E.g. TPP-Nok-Redirect-

URI:"https://tpp.example.es/cb/nok"• • **TPP-Explicit-**

Authorisation-Preferred• If it equals "true", the TPP prefers to start the authorisation process separately.

This preference might be ignored by the ASPSP, if a signing basket is not supported as functionality.

• **TPP-Explicit-Authorisation-Preferred**• If it equals "true", the TPP prefers to start the authorisation process separately. This preference might be ignored by the ASPSP, if a signing basket is not supported as functionality.

TPP-Explicit-Authorisation-Preferred• If it equals "true", the TPP prefers to start the authorisation process separately. This preference might be ignored by the ASPSP, if a signing basket is not supported as functionality.

If it equals "true", the TPP prefers to start the authorisation process separately. This preference might be ignored by the ASPSP, if a signing basket is not supported as functionality.

If it equals "false" or if the parameter is not used, there is no preference of the TPP. This especially indicates that the TPP assumes a direct authorisation of the transaction in the next step.

Note: the ASPSP may not take it into account if it does not support it.

• Boolean• OPT• E.g. TPP-Explicit-Authorisation-Preferred: false• • **Digest**• Is contained if and only if the "Signature" element is contained in the header of the request.

Boolean• OPT• E.g. TPP-Explicit-Authorisation-Preferred: false• • **Digest**• Is contained if and only if the "Signature" element is contained in the header of the request.

OPT• E.g. TPP-Explicit-Authorisation-Preferred: false• • **Digest**• Is contained if and only if the "Signature" element is contained in the header of the request.

E.g. TPP-Explicit-Authorisation-Preferred: false• • **Digest**• Is contained if and only if the "Signature" element is contained in the header of the request.

• **Digest**• Is contained if and only if the "Signature" element is contained in the header of the request.

Digest• Is contained if and only if the "Signature" element is contained in the header of the request.

Is contained if and only if the "Signature" element is contained in the header of the request.

See 6.1 Signature for more information.

• String• MAN• $\wedge.\{1,100\}$ \$

String• MAN• $\wedge.\{1,100\}$ \$

MAN• $\wedge.\{1,100\}$ \$

$\wedge.\{1,100\}$ \$

E.g. Digest: SHA-

256=NzdmZjA4YjY5M2M2NDYyMmVjOWFmMGNmYTZiN

TU3MjVmNDI4NTRIMzJkYzE3ZmNmMDE3ZGFmMjhhNTc

5OTU3OQ==• • **Signature**• A signature of the request

by the TPP on application level.

• **Signature**• A signature of the request by the TPP on application level.

Signature• A signature of the request by the TPP on application level.

A signature of the request by the TPP on application level.

See 6.1 Signature for more information.

• String• MAN• See annexes

String• MAN• See annexes

MAN• See annexes

See annexes

• • **TPP-Signature-Certificate**• The certificate used for signing the request, in base64 encoding.

• String• MAN• $\wedge.\{1,5000\}$ \$

• **TPP-Signature-Certificate**• The certificate used for signing the request, in base64 encoding.

• String• MAN• $\wedge.\{1,5000\}$ \$

TPP-Signature-Certificate• The certificate used for signing the request, in base64 encoding.

• String• MAN• $\wedge.\{1,5000\}$ \$

The certificate used for signing the request, in base64 encoding. • String• MAN• $\wedge.\{1,5000\}$ \$

String• MAN• $\wedge.\{1,5000\}$ \$

MAN • ^.{1,5000}\$

^.{1,5000}\$

E.g. TPP-Signature-Certificate:

MIIHgZCCBmugAwIBAgIIZzZvBQlt0UcwDQYJ.....KoZI
hvcNAQELBQAuSTELMAkGA1UEBhMCVVMxEzARBgNVBA

• •

•

Body

Field • Description • Type • Man. • Format • • access

• Accesses requested to the services. Only the sub-attributes with "accounts", "balances" and "transactions" tags are accepted. In addition, the ASPSP may support the attributes "availableAccounts", "availableAccountsWithBalances" or "allPsd2" with the value "allAccounts". • AccountAccess • MAN • E.g. "access":{...} • • **recurringIndicator** • Possible values:

Description • Type • Man. • Format • • access • Accesses requested to the services. Only the sub-attributes with "accounts", "balances" and "transactions" tags are accepted. In addition, the ASPSP may support the attributes "availableAccounts", "availableAccountsWithBalances" or "allPsd2" with the value "allAccounts". • AccountAccess • MAN • E.g. "access":{...} • • **recurringIndicator** • Possible values:

Type • Man. • Format • • access • Accesses requested to the services. Only the sub-attributes with "accounts", "balances" and "transactions" tags are accepted. In addition, the ASPSP may support the attributes "availableAccounts", "availableAccountsWithBalances" or "allPsd2" with the value "allAccounts". • AccountAccess • MAN • E.g. "access":{...} • • **recurringIndicator** • Possible values:

Man. • Format • • access • Accesses requested to the services. Only the sub-attributes with "accounts", "balances" and "transactions" tags are accepted. In addition, the ASPSP may support the attributes "availableAccounts", "availableAccountsWithBalances" or "allPsd2" with the value "allAccounts". • AccountAccess • MAN • E.g. "access":{...} • • **recurringIndicator** • Possible values:

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• **access** • Accesses requested to the services. Only the sub-attributes with "accounts", "balances" and "transactions" tags are accepted. In addition, the ASPSP may support the attributes "availableAccounts", "availableAccountsWithBalances" or "allPsd2" with the value "allAccounts". • **AccountAccess** • MAN • E.g. "access":{...} • **recurringIndicator** • Possible values:

access • Accesses requested to the services. Only the sub-attributes with "accounts", "balances" and "transactions" tags are accepted. In addition, the ASPSP may support the attributes "availableAccounts", "availableAccountsWithBalances" or "allPsd2" with the value "allAccounts". • **AccountAccess** • MAN • E.g. "access":{...} • **recurringIndicator** • Possible values:

Accesses requested to the services. Only the sub-attributes with "accounts", "balances" and "transactions" tags are accepted. In addition, the ASPSP may support the attributes "availableAccounts", "availableAccountsWithBalances" or "allPsd2" with the value "allAccounts". • **AccountAccess** • MAN • E.g. "access":{...} • **recurringIndicator** • Possible values:

AccountAccess • MAN • E.g. "access":{...} • **recurringIndicator** • Possible values:

MAN • E.g. "access":{...} • **recurringIndicator** • Possible values:

E.g. "access":{...} • **recurringIndicator** • Possible values:

• **recurringIndicator** • Possible values:

recurringIndicator • Possible values:

Possible values:

- true: recurring access to the account.
- false: once-only access. • Boolean • MAN • E.g.

"recurringIndicator":true • • **validUntil** • Date until which the consent requests access.

Boolean • MAN • E.g.

"recurringIndicator":true • • **validUntil** • Date until which the consent requests access.

MAN • E.g.

"recurringIndicator":true • • **validUntil** • Date until which the consent requests access.

E.g. "recurringIndicator":true • • **validUntil** • Date until which the consent requests access.

• **validUntil** • Date until which the consent requests access.

validUntil • Date until which the consent requests access.

Date until which the consent requests access.

The following value should be used to create consent with the maximum possible access time: 9999-12-31

When consent is recovered, the maximum possible date will be adjusted. • String • MAN • **ISODate**

String • MAN • **ISODate**

MAN • **ISODate**

ISODate

E.g. "validUntil":"2018-05-

17" • • **frequencyPerDay** • This field indicates the requested maximum frequency for an access without PSU involvement per day. For a one-off access, this attribute is set to "1".

• **frequencyPerDay** • This field indicates the requested maximum frequency for an access without PSU involvement per day. For a one-off access, this attribute is set to "1".

frequencyPerDay • This field indicates the requested maximum frequency for an access without PSU involvement per day. For a one-off access, this attribute is set to "1".

This field indicates the requested maximum frequency for an access without PSU involvement per day. For a one-off access, this attribute is set to "1".

• Integer • MAN • E.g.
"frequencyPerDay":4 • • **combinedServiceIndicator** • If true indicates that a payment initiation service will be addressed in the same "session" • Boolean • MAN • E.g.
"combinedServiceIndicator": false • •

Integer • MAN • E.g.
"frequencyPerDay":4 • • **combinedServiceIndicator** • If true indicates that a payment initiation service will be addressed in the same "session" • Boolean • MAN • E.g.
"combinedServiceIndicator": false • •

MAN • E.g.
"frequencyPerDay":4 • • **combinedServiceIndicator** • If true indicates that a payment initiation service will be addressed in the same "session" • Boolean • MAN • E.g.
"combinedServiceIndicator": false • •

E.g.
"frequencyPerDay":4 • • **combinedServiceIndicator** • If true indicates that a payment initiation service will be addressed in the same "session" • Boolean • MAN • E.g.
"combinedServiceIndicator": false • •

• **combinedServiceIndicator** • If true indicates that a payment initiation service will be addressed in the same "session" • Boolean • MAN • E.g.
"combinedServiceIndicator": false • •

combinedServiceIndicator • If true indicates that a payment initiation service will be addressed in the same "session" • Boolean • MAN • E.g.
"combinedServiceIndicator": false • •

If true indicates that a payment initiation service will be addressed in the same "session" • Boolean • MAN • E.g.
"combinedServiceIndicator": false • •

Boolean • MAN • E.g. "combinedServiceIndicator": false • •

MAN • E.g. "combinedServiceIndicator": false • •

E.g. "combinedServiceIndicator": false • •

•

3.2.2.2 Response

Header

Field • **Description** • **Type** • **Man.** • **Format** • **Location**
 • Location of the created resource (if created)

• String • MAN • **Max512Text**

Description • **Type** • **Man.** • **Format** • **Location** • Location of the created resource (if created)

• String • MAN • **Max512Text**

Type • **Man.** • **Format** • **Location** • Location of the created resource (if created)

• String • MAN • **Max512Text**

Man. • **Format** • **Location** • Location of the created resource (if created) • String • MAN • **Max512Text**

Format • **Location** • Location of the created resource (if created) • String • MAN • **Max512Text**

• **Location** • Location of the created resource (if created) • String • MAN • **Max512Text**

Location • Location of the created resource (if created)

• String • MAN • **Max512Text**

Location of the created resource (if created)

• String • MAN • **Max512Text**

String • MAN • **Max512Text**

MAN • **Max512Text**

Max512Text

E.g. Location: /v1/consents/{consentId} • **X-**

Request-ID • ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

• **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

X-Request-ID • ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

String • MAN • **UUID**

MAN • **UUID**

UUID

$^{\wedge}[0-9a-fA-F]\{8\}-[0-9a-fA-F]\{4\}-[0-9a-fA-F]\{4\}-[0-9a-fA-F]\{4\}-[0-9a-fA-F]\{12\}$$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-

d75958b172e7 • **ASPSP-SCA-Approach** • This data element must be contained, if the SCA Approach is already fixed. Possible values are:

• **ASPSP-SCA-Approach** • This data element must be contained, if the SCA Approach is already fixed. Possible values are:

ASPSP-SCA-Approach • This data element must be contained, if the SCA Approach is already fixed. Possible values are:

This data element must be contained, if the SCA Approach is already fixed. Possible values are:

- EMBEDDED
- DECOUPLED
- REDIRECT

The OAuth SCA approach will be subsumed by REDIRECT.

• String • COND • E.g. ASPSP-SCA-Approach: REDIRECT • •

String • COND • E.g. ASPSP-SCA-Approach: REDIRECT • •

COND • E.g. ASPSP-SCA-Approach: REDIRECT • •

E.g. ASPSP-SCA-Approach: REDIRECT • •

•

Body

Field • Description • Type • Man. • Format • • consentStatus • Consent authentication status. See values defined in 6.5 Consent status • String • MAN • E.g. "consentStatus": "received" • • **consentId** • Identifier of the resource that references the consent. It must be contained if a consent was

generated. • String • MAN • ^.{1,36}\$

Description • Type • Man. • Format • • consentStatus
s • Consent authentication status. See values defined in 6.5 Consent status • String • MAN • E.g. "consentStatus": "received" • • **consentId** Identifier of the resource that references the consent. It must be contained if a consent was generated. • String • MAN • ^.{1,36}\$

Type • Man. • Format • • consentStatus • Consent authentication status. See values defined in 6.5 Consent status • String • MAN • E.g. "consentStatus": "received" • • **consentId** Identifier of the resource that references the consent. It must be contained if a consent was generated. • String • MAN • ^.{1,36}\$

Man. • Format • • consentStatus • Consent authentication status. See values defined in 6.5 Consent status • String • MAN • E.g. "consentStatus": "received" • • **consentId** Identifier of the resource that references the consent. It must be contained if a consent was generated. • String • MAN • ^.{1,36}\$

Format • • consentStatus • Consent authentication status. See values defined in 6.5 Consent status • String • MAN • E.g. "consentStatus": "received" • • **consentId** Identifier of the resource that references the consent. It must be contained if a consent was generated. • String • MAN • ^.{1,36}\$

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Consent authentication status. See values defined in 6.5 Consent status • String • MAN • E.g. "consentStatus": "received" • • **consentId** Identifier of the resource that references the consent. It must be contained if a

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String • MAN • E.g. "consentStatus":

"received" • • **consentId** • Identifier of the resource that references the consent. It must be contained if a consent was generated. • String • MAN • $\wedge.\{1,36\}$ \$

MAN • E.g. "consentStatus":

"received" • • **consentId** • Identifier of the resource that references the consent. It must be contained if a consent was generated. • String • MAN • $\wedge.\{1,36\}$ \$

E.g. "consentStatus":

"received" • • **consentId** • Identifier of the resource that references the consent. It must be contained if a consent was generated. • String • MAN • $\wedge.\{1,36\}$ \$

• **consentId** • Identifier of the resource that references the consent. It must be contained if a consent was generated. • String • MAN • $\wedge.\{1,36\}$ \$

consentId • Identifier of the resource that references the consent. It must be contained if a consent was generated. • String • MAN • $\wedge.\{1,36\}$ \$

Identifier of the resource that references the consent. It must be contained if a consent was generated. • String • MAN • $\wedge.\{1,36\}$ \$

String • MAN • $\wedge.\{1,36\}$ \$

MAN • $\wedge.\{1,36\}$ \$

$\wedge.\{1,36\}$ \$

E.g. "consentId": "123-QWE-456" • • **scaMethods** • This data element might be contained, if SCA is required and if the PSU has a choice between different authentication methods.

• **scaMethods** • This data element might be contained, if SCA is required and if the PSU has a choice between different authentication methods.

scaMethods • This data element might be contained, if SCA is required and if the PSU has a choice between different authentication methods.

This data element might be contained, if SCA is required and if the PSU has a choice between different authentication methods.

If this data element is contained, then there is also a

hyperlink of type
"startAuthorisationWithAuthenticationMethodSelection"
contained in the response body.

These methods shall be presented towards the PSU for
selection by the TPP.

Note: Only if ASPSP supports selection of the SCA
method

• List<AuthenticationObject>• COND• E.g.
"scaMethods": [...]• • **_links**• A list of hyperlinks to be
recognised by the TPP.

List<AuthenticationObject>• COND• E.g. "scaMethods":
[...]• • **_links**• A list of hyperlinks to be recognised by
the TPP.

COND• E.g. "scaMethods": [...]• • **_links**• A list of
hyperlinks to be recognised by the TPP.

E.g. "scaMethods": [...]• • **_links**• A list of hyperlinks to
be recognised by the TPP.

• **_links**• A list of hyperlinks to be recognised by the
TPP.

_links• A list of hyperlinks to be recognised by the TPP.

A list of hyperlinks to be recognised by the TPP.

Type of links admitted in this response:

- **scaRedirect:** In case of an SCA Redirect Approach,
the ASPSP is transmitting the link to which to
redirect the PSU browser.
- **startAuthorisation:** In case, where an explicit start of
the transaction authorisation is needed, but no more
data needs to be updated (no authentication method
to be selected, no PSU identification nor PSU
authentication data to be uploaded).
- **startAuthorisationWithAuthenticationMethodSelection**
: The link to the authorisation end-point, where the
authorisation sub-resource has to be generated while
selecting the authentication method. This link is
contained under exactly the same conditions as the
data element "scaMethods"

- self: link to the resource created by this request.
- status: The link to retrieve the transaction status

scaStatus: The link to retrieve the scaStatus of the corresponding authorisation sub-resource. This link is only contained, if an authorisation sub-resource has been already created.

- Links• MAN• E.g. "_links": {...}• • **psuMessage**• Text to be displayed to the PSU
- String• OPT• ^.{1,512}\$

Links• MAN• E.g. "_links": {...}• • **psuMessage**• Text to be displayed to the PSU • String• OPT• ^.{1,512}\$

MAN• E.g. "_links": {...}• • **psuMessage**• Text to be displayed to the PSU • String• OPT• ^.{1,512}\$

E.g. "_links": {...}• • **psuMessage**• Text to be displayed to the PSU • String• OPT• ^.{1,512}\$

- **psuMessage**• Text to be displayed to the PSU
- String• OPT• ^.{1,512}\$

psuMessage• Text to be displayed to the PSU

- String• OPT• ^.{1,512}\$

Text to be displayed to the PSU

- String• OPT• ^.{1,512}\$

String• OPT• ^.{1,512}\$

OPT• ^.{1,512}\$

^{1,512}\$

E.g. "psuMessage": "Information for the

PSU"• • **tppMessages**• Message to the

TPP. • List<TppMessage>• OPT• E.g. "tppMessages":

[...]• •

- **tppMessages**• Message to the

TPP. • List<TppMessage>• OPT• E.g. "tppMessages":

[...]• •

tppMessages• Message to the

TPP. • List<TppMessage>• OPT• E.g. "tppMessages":

[...]• •

Message to the TPP. • List<TppMessage>• OPT• E.g.

"tppMessages": [...]• •

List<TppMessage>• OPT• E.g. "tppMessages": [...]• •
OPT• E.g. "tppMessages": [...]• •
E.g. "tppMessages": [...]• •
•

3.2.2.3 Examples

Example of consent request for dedicated the accounts indicated with SCA via redirect

```
POST https://www.hub.com/aspsp-name/v1/consents
Content-Encoding: gzip
Content-Type: application/json
X-Request-ID: 10391c7e-ad88-49ec-a2ad-00aacb1f6541
Authorization: Bearer 2YotnFZFEjrlzCsicMWpAA
PSU-IP-Address: 192.168.8.16
PSU-IP-Port: 443
PSU-Accept: application/json
PSU-Accept-Charset: utf-8
PSU-Accept-Encoding: gzip
PSU-Accept-Language: es-ES
PSU-User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:54.0) Gecko/20100101 Firefox/54.0
PSU-Http-Method: POST
PSU-Device-ID: f8b3fed8-6fe3-11e8-adc0-fa7ae01bbebc
PSU-GEO-Location: GEO:12.526347;54.649862
TPP-Redirect-Preferred: true
TPP-Redirect-URI: https://www.tpp.com/cb
TPP-Nok-Redirect-URI: https://www.tpp.com/cb/nok
Date: Sun, 26 Sep 2017 15:02:37 GMT
{
  "access": {
    "balances": [
      {
        "iban": "ES1111111111111111111111"
      },
      {

```

```

    "iban":
    "ES222222222222222222222222",
    "currency": "USD"
  },
  {
    "iban": "ES333333333333333333333333"
  }
],
"transactions": [
  {
    "iban": "ES111111111111111111111111"
  }
]
},
"recurringIndicator": true,
"validUntil": "2018-05-17",
"frequencyPerDay": 4
}

```

Example of consent request for the list of available accounts with SCA via redirect

```

POST https://www.hub.com/aspsp-name/v1/consents
Content-Encoding: gzip
Content-Type: application/json
X-Request-ID: 10391c7e-ad88-49ec-a2ad-00aacb1f6541
Authorization: Bearer 2YotnFZFEjrlzCsicMWpAA
PSU-IP-Address: 192.168.8.16
PSU-IP-Port: 443
PSU-Accept: application/json
PSU-Accept-Charset: utf-8
PSU-Accept-Encoding: gzip
PSU-Accept-Language: es-ES
PSU-User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:54.0) Gecko/20100101 Firefox/54.0
PSU-Http-Method: POST
PSU-Device-ID: f8b3feda-6fe3-11e8-adc0-fa7ae01bbebc
PSU-GEO-Location: GEO:12.526347;54.649862
TPP-Redirect-Preferred: true
TPP-Redirect-URI: https://www.tpp.com/cb

```

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```
TPP-Nok-Redirect-URI: https://www.tpp.com/cb/nok
Date: Sun, 26 Sep 2017 15:02:37 GMT
{
  "access": {
    "availableAccounts": "allAccounts"
  },
  "recurringIndicator": false,
  "validUntil": "2018-05-17",
  "frequencyPerDay": 1
}
```

Example of consent request without indicating the accounts and decoupled SCA

```
POST https://www.hub.com/aspsp-name/v1/consents
Content-Encoding: gzip
Content-Type: application/json
X-Request-ID: 10391c7e-ad88-49ec-a2ad-00aacb1f6541
Authorization: Bearer 2YotnFZFEjrlzCsicMWpAA
PSU-IP-Address: 192.168.8.16
PSU-IP-Port: 443
PSU-Accept: application/json
PSU-Accept-Charset: utf-8
PSU-Accept-Encoding: gzip
PSU-Accept-Language: es-ES
PSU-User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:54.0) Gecko/20100101 Firefox/54.0
PSU-Http-Method: POST
PSU-Device-ID: f8b3feda-6fe3-11e8-adc0-fa7ae01bbebc
PSU-GEO-Location: GEO:12.526347;54.649862
TPP-Redirect-Preferred: false
Date: Sun, 26 Sep 2017 15:02:37 GMT
{
  "access": {
    "balances": [],
    "transactions": []
  }
}
```

```
    },
    "recurringIndicator": true,
    "validUntil": "2018-05-17",
    "frequencyPerDay": 4
  }
}
```

Example of the response in the case of SCA via redirect with an implicitly generated sub-resource authorisation

```
HTTP/1.1 201 Created
X-Request-ID: 10391c7e-ad88-49ec-a2ad-00aacb1f6541
ASPSP-SCA-Approach: REDIRECT
Date: Sun, 26 Sep 2017 15:02:43 GMT
Location: /v1/consents/123-asdf-456
Content-Type: application/json
{
  "consentStatus": "received",
  "consentId": "123-asdf-456",
  "_links": {
    "scaRedirect": {
      "href": "https://hub.example.es/authorize "
    },
    "self": {
      "href": "/v1/consents/123-asdf-456",
    },
    "status": {
      "href": "/v1/consents/123-asdf-456/status"
    },
    "scaStatus": {
      "href": "/v1/consents/123-asdf-456/authorisations/123auth456"
    }
  }
}
```

Example of response in the case of decoupled SCA

```
HTTP/1.1 201 Created
X-Request-ID: 10391c7e-ad88-49ec-a2ad-00aacb1f6541
ASPSP-SCA-Approach: DECOUPLED
Date: Sun, 26 Sep 2017 15:02:43 GMT
Location: /v1/consents/123-asdf-456
Content-Type: application/json
{
  "consentStatus": "received",
  "consentId": "123-asdf-456",
  "_links": {
    "self": {
      "href": "/v1/consents/123-asdf-456",
      "status": {
        "href": "/v1/consents/123-asdf-456/status"
      }
    }
  },
  "psuMessage": "Please use your XXX Bank app to authorise consent"
}
```

3.2.3 Get consent status

This service allows TPP to know the status of a consent request initiated previously.

3.2.3.1 Request

Endpoint

GET {provider}/{aspsp}/v1/consents/{consent-id}/status

Path

Field • Description • Type • Man. • Format • • provide

Ref RS.SSECT.OTR.0000

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r• URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp**• Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId**• Identifier of the resource that references the consent.

Description• **Type**• **Man**• **Format**• • **provider**• URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp**• Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId**• Identifier of the resource that references the consent.

Type• **Man**• **Format**• • **provider**• URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp**• Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId**• Identifier of the resource that references the consent.

Man• **Format**• • **provider**• URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp**• Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId**• Identifier of the resource that references the consent.

Format• • **provider**• URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp**• Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId**• Identifier of the resource that references the consent.

• **provider**• URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp**• Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId**• Identifier of the resource that references the consent.

provider• URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp**• Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId**• Identifier of the resource that

references the consent.

URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** • Identifier of the resource that references the consent.

String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** • Identifier of the resource that references the consent.

MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** • Identifier of the resource that references the consent.

E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** • Identifier of the resource that references the consent.

• **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** • Identifier of the resource that references the consent.

aspsp • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** • Identifier of the resource that references the consent.

Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** • Identifier of the resource that references the consent.

String • MAN • E.g. aspsp-name • • **consentId** • Identifier of the resource that references the consent.

MAN • E.g. aspsp-name • • **consentId** • Identifier of the resource that references the consent.

E.g. aspsp-name • • **consentId** • Identifier of the resource that references the consent.

- **consentId** Identifier of the resource that references the consent.

consentId Identifier of the resource that references the consent.

Identifier of the resource that references the consent.

Sent previously as a response to a request message for consent from the TPP to the

HUB. • String • MAN • ^.{1,36}\$

String • MAN • ^.{1,36}\$

MAN • ^.{1,36}\$

^.{1,36}\$

E.g.123-qwerty-456 • •

•

Query parameters

No additional fields are specified.

Header

Field • Description • Type • Man. • Format • • X-Request-ID ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

Description • Type • Man. • Format • • X-Request-ID ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Type • Man. • Format • • X-Request-ID ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Man. • Format • • X-Request-ID ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Format • • X-Request-ID ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

- **X-Request-ID** ID of the request, unique to the call, as determined by the initiating party.

- String • MAN • **UUID**

X-Request-ID ID of the request, unique to the call, as determined by the initiating party.

- String • MAN • **UUID**

ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

String • MAN • **UUID**

MAN • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-

d75958b172e7 • • **Authorisation** Bearer Token.

Obtained in a prior authentication on

OAuth2. • String • MAN • E.g.

- **Authorisation** Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

Authorisation Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

String • MAN • E.g.

MAN • E.g.

E.g.

Authorisation: Bearer

2YotnFZFEjr1zCsicMWpAA • • **PSU-IP-Address** The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

- **PSU-IP-Address** The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

PSU-IP-Address The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

The forwarded IP Address header field consists of the corresponding HTTP request IP Address field between PSU and TPP.

If not available, the TPP shall use the IP Address used by the TPP when submitting this request.

• String • OPT • ^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$

String • OPT • ^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$

OPT • ^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$

^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$

E.g.

PSU-IP-Address: 192.168.16.5 • • **PSU-IP-Port** • The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available. • String • OPT • ^\\d{1,5}\$

• **PSU-IP-Port** • The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available.

• String • OPT • ^\\d{1,5}\$

PSU-IP-Port • The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available.

• String • OPT • ^\\d{1,5}\$

The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available. • String • OPT • ^\\d{1,5}\$

String • OPT • ^\\d{1,5}\$

OPT • ^\\d{1,5}\$

^\\d{1,5}\$

E.g. PSU-IP-Port: 443 • • **PSU-Accept** • The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available. • String • OPT • ^.{1,50}\$

• **PSU-Accept** • The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

• String • OPT • ^.{1,50}\$

PSU-Accept• The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

• String• OPT• ^.{1,50}\$

The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

• String• OPT• ^.{1,50}\$

String• OPT• ^.{1,50}\$

OPT• ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept: application/json• • **PSU-Accept-Charset**• Accept charset header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

• **PSU-Accept-Charset**• Accept charset header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

PSU-Accept-Charset• Accept charset header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

Accept charset header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

String• OPT• ^.{1,50}\$

OPT• ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept-Charset: utf-8• • **PSU-Accept-Encoding**• Accept encoding header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

• **PSU-Accept-Encoding**• Accept encoding header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

PSU-Accept-Encoding• Accept encoding header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

Accept encoding header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

String• OPT• ^.{1,50}\$

OPT• ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept-Encoding: gzip• • **PSU-Accept-Language**• Accept language header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

• **PSU-Accept-Language**• Accept language header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

PSU-Accept-Language• Accept language header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

Accept language header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

String• OPT• ^.{1,50}\$

OPT• ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept-Language: es-ES• • **PSU-User-Agent**• The forwarded Agent header field of the HTTP request between PSU and TPP, if available.

• String• OPT• E.g.

• **PSU-User-Agent**• The forwarded Agent header field of the HTTP request between PSU and TPP, if available.

• String• OPT• E.g.

PSU-User-Agent• The forwarded Agent header field of the HTTP request between PSU and TPP, if available.

• String• OPT• E.g.

The forwarded Agent header field of the HTTP request between PSU and TPP, if available. • String• OPT• E.g.

String• OPT• E.g.

OPT• E.g.

E.g.

PSU-User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.5) Gecko/20091102 Firefox/3.5.5 (.NET CLR 3.5.30729)• • **PSU-Http-Method**• HTTP method used at the PSU – TPP interface, if available.

• **PSU-Http-Method**• HTTP method used at the PSU –

TPP interface, if available.

PSU-Http-Method HTTP method used at the PSU – TPP interface, if available.

HTTP method used at the PSU – TPP interface, if available.

Valid values are:

- GET
- POST
- PUT
- PATCH
- DELETE • String • OPT • E.g. PSU-Http-Method: GET • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

String • OPT • E.g. PSU-Http-Method: GET • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

OPT • E.g. PSU-Http-Method: GET • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

E.g. PSU-Http-Method: GET • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

• **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

PSU-Device-ID • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

UUID identifies either a device or a device dependant application installation. In case of an installation identification this ID need to be unaltered until removal from device. UUID

- String • OPT • **UUID**

String • OPT • **UUID**

OPT• **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

PSU-Device-ID: 5b3ab8e8-0fd5-43d2-946e-

d75958b172e7• • **PSU-Geo-Location**• The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String• OPT• **RFC 2426**

• **PSU-Geo-Location**• The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String• OPT• **RFC 2426**

PSU-Geo-Location• The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String• OPT• **RFC 2426**

The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available.

• String• OPT• **RFC 2426**

String• OPT• **RFC 2426**

OPT• **RFC 2426**

RFC 2426

^GEO:[\\d]*.[\\d]*[;][\\d]*.[\\d]*\$

E.g.

PSU-Geo-Location:

GEO:90.023856;25.345963• • **Digest**• Is contained if and only if the "Signature" element is contained in the header of the request.

• **Digest**• Is contained if and only if the "Signature" element is contained in the header of the request.

Digest• Is contained if and only if the "Signature" element is contained in the header of the request.

Is contained if and only if the "Signature" element is contained in the header of the request.

See 6.1 Signature for more information.

• String• MAN• ^.{1,100}\$

String• MAN• ^.{1,100}\$

MAN• ^.{1,100}\$

^.{1,100}\$

E.g. Digest: SHA-

256=NzdmZjA4YjY5M2M2NDYyMmVjOWFmMGNmYTZiN

TU3MjVmNDI4NTRIMzJkYzE3ZmNmMDE3ZGFmMjhhNTc

5OTU3OQ==• • **Signature**• A signature of the request

by the TPP on application level.

• **Signature**• A signature of the request by the TPP on application level.

Signature• A signature of the request by the TPP on application level.

A signature of the request by the TPP on application level.

See 6.1 Signature for more information.

• String• MAN• See annexes

String• MAN• See annexes

MAN• See annexes

See annexes

• • **TPP-Signature-Certificate**• The certificate used for signing the request, in base64 encoding.

• String• MAN• ^.{1,5000}\$

• **TPP-Signature-Certificate**• The certificate used for signing the request, in base64 encoding.

• String• MAN• ^.{1,5000}\$

TPP-Signature-Certificate• The certificate used for signing the request, in base64 encoding.

• String• MAN• ^.{1,5000}\$

The certificate used for signing the request, in base64 encoding. • String• MAN• ^.{1,5000}\$

String• MAN• ^.{1,5000}\$

MAN• ^.{1,5000}\$

^.{1,5000}\$

E.g. TPP-Signature-Certificate:

MIIHgzCCBmugAwIBAgIIZzZvBQlt0UcwDQYJ.....KoZI
hvcNAQELBQAwSTELMAkGA1UEBhMCVVMxEzARBgNVBA

• •

-

Body

No additional data are sent.

3.2.3.2 Response

This message is returned by the HUB to the TPP as a response to the request message for the consent status.

Header

Field • **Description** • **Type** • **Man.** • **Format** • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party.
• String • MAN • **UUID**

Description • **Type** • **Man.** • **Format** • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Type • **Man.** • **Format** • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Man. • **Format** • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party.
• String • MAN • **UUID**

Format • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party.
• String • MAN • **UUID**

• **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party.
• String • MAN • **UUID**

X-Request-ID • ID of the request, unique to the call, as determined by the initiating party.
• String • MAN • **UUID**

ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

String • MAN • **UUID**

MAN • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7 • •

Body

Field • Description • Type • Man. • Format • • consentStatus • Consent authentication status. See values defined in 6.5 Consent status • String • MAN • E.g.

"consentStatus": "valid" • • **psuMessage •** Text to show to the PSU • String • OPT • ^.{1,512}\$

Description • Type • Man. • Format • • consentStatus • C onsent authentication status. See values defined in 6.5 Consent status • String • MAN • E.g.

"consentStatus": "valid" • • **psuMessage •** Text to show to the PSU • String • OPT • ^.{1,512}\$

Type • Man. • Format • • consentStatus • Consent authentication status. See values defined in 6.5 Consent status • String • MAN • E.g.

"consentStatus": "valid" • • **psuMessage •** Text to show to the PSU • String • OPT • ^.{1,512}\$

Man. • Format • • consentStatus • Consent authentication status. See values defined in 6.5 Consent status • String • MAN • E.g.

"consentStatus": "valid" • • **psuMessage •** Text to show to the PSU • String • OPT • ^.{1,512}\$

Format • • consentStatus • Consent authentication status. See values defined in 6.5 Consent status • String • MAN • E.g.

"consentStatus": "valid" • • **psuMessage •** Text to show to the PSU • String • OPT • ^.{1,512}\$

• **consentStatus •** Consent authentication status. See values defined in 6.5 Consent status • String • MAN • E.g.
"consentStatus": "valid" • • **psuMessage •** Text to show to the PSU • String • OPT • ^.{1,512}\$

consentStatus • Consent authentication status. See values defined in 6.5 Consent status • String • MAN • E.g.

"consentStatus":"valid" • • **psuMessage** • Text to show to the PSU • String • OPT • $\wedge.\{1,512\}$ \$

Consent authentication status. See values defined in 6.5
Consent status • String • MAN • E.g.

"consentStatus":"valid" • • **psuMessage** • Text to show to the PSU • String • OPT • $\wedge.\{1,512\}$ \$

String • MAN • E.g.

"consentStatus":"valid" • • **psuMessage** • Text to show to the PSU • String • OPT • $\wedge.\{1,512\}$ \$

MAN • E.g.

"consentStatus":"valid" • • **psuMessage** • Text to show to the PSU • String • OPT • $\wedge.\{1,512\}$ \$

E.g. "consentStatus":"valid" • • **psuMessage** • Text to show to the PSU • String • OPT • $\wedge.\{1,512\}$ \$

• **psuMessage** • Text to show to the PSU • String • OPT • $\wedge.\{1,512\}$ \$

psuMessage • Text to show to the PSU • String • OPT • $\wedge.\{1,512\}$ \$

Text to show to the PSU • String • OPT • $\wedge.\{1,512\}$ \$

String • OPT • $\wedge.\{1,512\}$ \$

OPT • $\wedge.\{1,512\}$ \$

$\wedge.\{1,512\}$ \$

E.g. "psuMessage":"Information for PSU" • • **tppMessages** • Message for the TPP • List<TppMessage> • OPT • E.g.
"tppMessages":[...] • •

• **tppMessages** • Message for the TPP • List<TppMessage> • OPT • E.g.
"tppMessages":[...] • •

tppMessages • Message for the TPP • List<TppMessage> • OPT • E.g.
"tppMessages":[...] • •

Message for the TPP • List<TppMessage> • OPT • E.g.
"tppMessages":[...] • •

List<TppMessage> • OPT • E.g. "tppMessages":[...] • •

OPT • E.g. "tppMessages":[...] • •

E.g. "tppMessages":[...] • •

•

3.2.3.3 Examples

Example of request

```
GET https://www.hub.com/aspsp-
name/v1/consents/123asdf456/status
Accept: application/json
X-Request-ID: 96201400-6ff9-11e8-adc0-fa7ae01bbebc
Authorization: Bearer 2YotnFZFEjrlzCsicMWpAA
PSU-IP-Address: 192.168.8.16
PSU-IP-Port: 443
PSU-Accept: application/json
PSU-Accept-Charset: utf-8
PSU-Accept-Encoding: gzip
PSU-Accept-Language: es-ES
PSU-User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64;
rv:54.0) Gecko/20100101 Firefox/54.0
PSU-Http-Method: GET
PSU-Device-ID: f8b3feda-6fe3-11e8-adc0-fa7ae01bbebc
PSU-GEO-Location: GEO:12.526347;54.649862
Date: Sun, 26 Sep 2017 15:02:48 GMT
```

Example of response

```
HTTP/1.1 200 OK
X-Request-ID: 96201400-6ff9-11e8-adc0-fa7ae01bbebc
Date: Sun, 26 Sep 2017 15:02:50 GMT
Content-Type: application/json
{
  "consentStatus": "valid"
}
```

3.2.4 Get consent

3.2.4.1 Request

This message is sent by the TPP to the HUB as a request to

Ref **RS.SSECT.OTR.0000**

15/09/2021

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recover the information of a previously created consent.

Endpoint

GET {provider}/{aspsp}/v1/consents/{consentId}

Path

Field• Description• Type• Man. • Format • • provider

r• URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp**• Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId**• Identifier of the resource that references the consent.

Description• Type• Man. • Format • • provider• URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp**• Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId**• Identifier of the resource that references the consent.

Type• Man. • Format • • provider• URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp**• Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId**• Identifier of the resource that references the consent.

Man. • Format • • provider• URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp**• Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId**• Identifier of the resource that references the consent.

Format • • provider• URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp**• Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId**• Identifier of the resource that references the consent.

• **provider**• URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp**• Name of the ASPSP to which

the request is made. • String • MAN • E.g. aspsp-name • • **consentId** Identifier of the resource that references the consent.

provider • URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** Identifier of the resource that references the consent.

URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** Identifier of the resource that references the consent.

String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** Identifier of the resource that references the consent.

MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** Identifier of the resource that references the consent.

E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** Identifier of the resource that references the consent.

• **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** Identifier of the resource that references the consent.

aspsp • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** Identifier of the resource that references the consent.

Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** Identifier of the resource that references the consent.

String • MAN • E.g. aspsp-name • • **consentId** Identifier of the resource that references the consent.

MAN • E.g. aspsp-name • • **consentId** Identifier of the resource that references the consent.

E.g. aspsp-name • • **consentId** Identifier of the resource that references the consent.

• **consentId** Identifier of the resource that references the consent.

consentId Identifier of the resource that references the consent.

Identifier of the resource that references the consent.

Sent previously as a response to a request message for consent from the TPP to the HUB. • String • MAN • $\wedge.\{1,36\}$ \$

String • MAN • $\wedge.\{1,36\}$ \$

MAN • $\wedge.\{1,36\}$ \$

$\wedge.\{1,36\}$ \$

E.g. 7890-asdf-4321 • •

•

Query parameters

No additional fields are specified.

Header

Field • Description • Type • Man. • Format • • X-Request-ID ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

Description • Type • Man. • Format • • X-Request-ID ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Type • Man. • Format • • X-Request-ID ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Man. • Format • • X-Request-ID ID of the request, unique to the call, as determined by the initiating party.

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Format • • X-Request-ID ID of the request, unique to the call, as determined by the initiating party.

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• **X-Request-ID** ID of the request, unique to the call, as determined by the initiating party.

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X-Request-ID ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

String • MAN • **UUID**

MAN • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7 • **Authorisation** Bearer Token.

Obtained in a prior authentication on

OAuth2. • String • MAN • E.g.

• **Authorisation** Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

Authorisation Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

String • MAN • E.g.

MAN • E.g.

E.g.

Authorisation: Bearer

2YotnFZFEjr1zCsicMWpAA • **PSU-IP-Address** The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

• **PSU-IP-Address**• The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

PSU-IP-Address• The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

between PSU and TPP.

If not available, the TPP shall use the IP Address used by the TPP when submitting this request.

• String• OPT• $^{[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}}\$$

String• OPT• $^{[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}}\$$

OPT• $^{[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}}\$$

$^{[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}}\$$

E.g.

PSU-IP-Address: 192.168.16.5• • **PSU-IP-Port**• The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available. • String• OPT• $^{\\d\{1,5\}}\$$

• **PSU-IP-Port**• The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available.

• String• OPT• $^{\\d\{1,5\}}\$$

PSU-IP-Port• The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available.

• String• OPT• $^{\\d\{1,5\}}\$$

The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available. • String• OPT• $^{\\d\{1,5\}}\$$

String• OPT• $^{\\d\{1,5\}}\$$

OPT• $^{\\d\{1,5\}}\$$

$^{\\d\{1,5\}}\$$

E.g. PSU-IP-Port: 443• • **PSU-Accept**• The forwarded Accept header fields consist of the corresponding HTTP

request Accept header fields between PSU and TPP, if available. • String • OPT • ^.{1,50}\$

- **PSU-Accept** • The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.
- String • OPT • ^.{1,50}\$

PSU-Accept • The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

- String • OPT • ^.{1,50}\$

The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

- String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^.{1,50}\$

E.g. PSU-Accept: application/json • • **PSU-Accept-Charset** • Accept charset header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

- **PSU-Accept-Charset** • Accept charset header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

PSU-Accept-Charset • Accept charset header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

Accept charset header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^.{1,50}\$

E.g. PSU-Accept-Charset: utf-8 • • **PSU-Accept-Encoding** • Accept encoding header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

- **PSU-Accept-Encoding** • Accept encoding header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

PSU-Accept-Encoding • Accept encoding header of the

HTTP request between PSU and the
TPP. • String • OPT • ^.{1,50}\$

Accept encoding header of the HTTP request between
PSU and the TPP. • String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^.{1,50}\$

E.g. PSU-Accept-Encoding: gzip • • **PSU-Accept-Language** • Accept language header of the HTTP request between PSU and the
TPP. • String • OPT • ^.{1,50}\$

• **PSU-Accept-Language** • Accept language header of the HTTP request between PSU and the
TPP. • String • OPT • ^.{1,50}\$

PSU-Accept-Language • Accept language header of the HTTP request between PSU and the
TPP. • String • OPT • ^.{1,50}\$

Accept language header of the HTTP request between
PSU and the TPP. • String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^.{1,50}\$

E.g. PSU-Accept-Language: es-ES • • **PSU-User-Agent** • The forwarded Agent header field of the HTTP request between PSU and TPP, if available.

• String • OPT • E.g.

• **PSU-User-Agent** • The forwarded Agent header field of the HTTP request between PSU and TPP, if available.

• String • OPT • E.g.

PSU-User-Agent • The forwarded Agent header field of the HTTP request between PSU and TPP, if available.

• String • OPT • E.g.

The forwarded Agent header field of the HTTP request between PSU and TPP, if available. • String • OPT • E.g.

String • OPT • E.g.

OPT • E.g.

E.g.

PSU-User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.5) Gecko/20091102 Firefox/3.5.5 (.NET CLR 3.5.30729) • • **PSU-Http-Method** HTTP method used at the PSU – TPP interface, if available.

• **PSU-Http-Method** HTTP method used at the PSU – TPP interface, if available.

PSU-Http-Method HTTP method used at the PSU – TPP interface, if available.

HTTP method used at the PSU – TPP interface, if available.

Valid values are:

- GET
- POST
- PUT
- PATCH

• DELETE • String • OPT • E.g. PSU-Http-Method: GET • • **PSU-Device-ID** UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

String • OPT • E.g. PSU-Http-Method: GET • • **PSU-Device-ID** UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

OPT • E.g. PSU-Http-Method: GET • • **PSU-Device-ID** UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

E.g. PSU-Http-Method: GET • • **PSU-Device-ID** UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

• **PSU-Device-ID** UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

PSU-Device-ID UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

UUID identifies either a device or a device dependant application installation. In case of an installation identification this ID need to be unaltered until removal from device.

• String• OPT• **UUID**

String• OPT• **UUID**

OPT• **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

PSU-Device-ID: 5b3ab8e8-0fd5-43d2-946e-

d75958b172e7• • **PSU-Geo-Location**• The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String• OPT• **RFC 2426**

• **PSU-Geo-Location**• The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String• OPT• **RFC 2426**

PSU-Geo-Location• The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String• OPT• **RFC 2426**

The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available.

• String• OPT• **RFC 2426**

String• OPT• **RFC 2426**

OPT• **RFC 2426**

RFC 2426

^GEO:[\\d]*.[\\d]*[;][\\d]*.[\\d]*\$

E.g.

PSU-Geo-Location:

GEO:90.023856;25.345963• • **Digest**• Is contained if and only if the "Signature" element is contained in the header of the request.

• **Digest**• Is contained if and only if the "Signature" element is contained in the header of the request.

Digest• Is contained if and only if the "Signature"

element is contained in the header of the request.

Is contained if and only if the "Signature" element is contained in the header of the request.

See 6.1 Signature for more information.

• String• MAN• $\wedge.\{1,100\}$ \$

String• MAN• $\wedge.\{1,100\}$ \$

MAN• $\wedge.\{1,100\}$ \$

$\wedge.\{1,100\}$ \$

E.g. Digest: SHA-

256=NzdmZjA4YjY5M2M2NDYyMmVjOWFmMGNmYTZiN
TU3MjVmNDI4NTRIMzJkYzE3ZmNmMDE3ZGFmMjhhNTc
5OTU3OQ==• • **Signature**• A signature of the request
by the TPP on application level.

• **Signature**• A signature of the request by the TPP on
application level.

Signature• A signature of the request by the TPP on
application level.

A signature of the request by the TPP on application
level.

See 6.1 Signature for more information.

• String• MAN• See annexes

String• MAN• See annexes

MAN• See annexes

See annexes

• • **TPP-Signature-Certificate**• The certificate used
for signing the request, in base64
encoding• String• MAN• $\wedge.\{1,5000\}$ \$

• **TPP-Signature-Certificate**• The certificate used for
signing the request, in base64
encoding• String• MAN• $\wedge.\{1,5000\}$ \$

TPP-Signature-Certificate• The certificate used for
signing the request, in base64
encoding• String• MAN• $\wedge.\{1,5000\}$ \$

The certificate used for signing the request, in base64
encoding• String• MAN• $\wedge.\{1,5000\}$ \$

String• MAN• $\wedge.\{1,5000\}$ \$

MAN• $\wedge.\{1,5000\}$ \$

^.{1,5000}\$

E.g. TPP-Signature-Certificate:

MIIHgZCCBmugAwIBAgIIZzZvBQlt0UcwDQYJ.....KoZI
hvcNAQELBQAwwSTELMAkGA1UEBhMCVVMxEzARBgNVBA

- •
-

Body

No additional data are sent.

3.2.4.2 Response

This message is returned by the HUB to the TPP as a response to the message requesting recovery of the consent information.

Header

Field • Description • Type • Man. • Format • • X-Request-ID • ID of the request, unique to the call, as determined by the initiating party.

- String • MAN • **UUID**

Description • Type • Man. • Format • • X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Type • Man. • Format • • X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Man. • Format • • X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Format • • X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

• **X-Request-ID •** ID of the request, unique to the call, as determined by the initiating party.

- String • MAN • **UUID**

X-Request-ID ID of the request, unique to the call, as determined by the initiating party.

- String • MAN • **UUID**

ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

String • MAN • **UUID**

MAN • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7 • •

•

Body

Field • Description • Type • Man. • Format • • access

• Accesses requested to the services. Only the sub-attributes with "accounts", "balances" and "transactions" tags are accepted. In addition, the ASPSP may support the attributes "availableAccounts", "availableAccountsWithBalances" or "allPsd2" with the value "allAccounts" • AccountAccess • MAN • E.g.

"access": {...} • • **recurringIndicator** • Possible values:

Description • Type • Man. • Format • • access Accesses requested to the services. Only the sub-attributes with "accounts", "balances" and "transactions" tags are accepted. In addition, the ASPSP may support the attributes "availableAccounts", "availableAccountsWithBalances" or "allPsd2" with the value "allAccounts" • AccountAccess • MAN • E.g.

"access": {...} • • **recurringIndicator** • Possible values:

Type • Man. • Format • • access Accesses requested to the services. Only the sub-attributes with "accounts", "balances" and "transactions" tags are accepted. In addition, the ASPSP may support the attributes "availableAccounts", "availableAccountsWithBalances" or "allPsd2" with the value

"allAccounts"● AccountAccess● MAN● E.g. "access":
{...}● ● **recurringIndicator**● Possible values:

Man.● Format● ● access● Accesses requested to the services. Only the sub-attributes with "accounts", "balances" and "transactions" tags are accepted. In addition, the ASPSP may support the attributes "availableAccounts", "availableAccountsWithBalances" or "allPsd2" with the value

"allAccounts"● AccountAccess● MAN● E.g. "access":
{...}● ● **recurringIndicator**● Possible values:

Format● ● access● Accesses requested to the services. Only the sub-attributes with "accounts", "balances" and "transactions" tags are accepted. In addition, the ASPSP may support the attributes "availableAccounts", "availableAccountsWithBalances" or "allPsd2" with the value "allAccounts"● AccountAccess● MAN● E.g.

"access": {...}● ● **recurringIndicator**● Possible values:

● **access●** Accesses requested to the services. Only the sub-attributes with "accounts", "balances" and "transactions" tags are accepted. In addition, the ASPSP may support the attributes "availableAccounts", "availableAccountsWithBalances" or "allPsd2" with the value "allAccounts"● AccountAccess● MAN● E.g.

"access": {...}● ● **recurringIndicator**● Possible values:

access● Accesses requested to the services. Only the sub-attributes with "accounts", "balances" and "transactions" tags are accepted. In addition, the ASPSP may support the attributes "availableAccounts", "availableAccountsWithBalances" or "allPsd2" with the value "allAccounts"● AccountAccess● MAN● E.g.

"access": {...}● ● **recurringIndicator**● Possible values:

Accesses requested to the services. Only the sub-attributes with "accounts", "balances" and "transactions" tags are accepted. In addition, the ASPSP may support the attributes "availableAccounts", "availableAccountsWithBalances" or "allPsd2" with the value "allAccounts"● AccountAccess● MAN● E.g.

"access": {...}● ● **recurringIndicator**● Possible values:

AccountAccess● MAN● E.g. "access":

{...}● ● **recurringIndicator**● Possible values:

MAN● E.g. "access":

{...} • • **recurringIndicator** • Possible values:

E.g. "access": {...} • • **recurringIndicator** • Possible values:

• **recurringIndicator** • Possible values:

recurringIndicator • Possible values:

Possible values:

- true: recurring access to the account.
- false: once-only access.
- Boolean • MAN • E.g. "recurringIndicator": true • • **validUntil** • Date until which the consent requests access.

Boolean • MAN • E.g. "recurringIndicator": true • • **validUntil** • Date until which the consent requests access.

MAN • E.g. "recurringIndicator": true • • **validUntil** • Date until which the consent requests access.

E.g. "recurringIndicator": true • • **validUntil** • Date until which the consent requests access.

• **validUntil** • Date until which the consent requests access.

validUntil • Date until which the consent requests access.

Date until which the consent requests access.

The following value should be used to create consent with the maximum possible access time: 9999-12-31

When consent is recovered, the maximum possible date will be adjusted. • String • MAN • **ISODate**

String • MAN • **ISODate**

MAN • **ISODate**

ISODate

E.g. "validUntil": "2018-05-

17" • • **frequencyPerDay** • Indicates the frequency of access to the account every day.

• **frequencyPerDay** • Indicates the frequency of access to the account every day.

frequencyPerDay• Indicates the frequency of access to the account every day.

Indicates the frequency of access to the account every day.

1 if it is one-time-only access. • Integer • MAN • E.g.
"frequencyPerDay":4 • • **lastActionDate**• Date of the last modification made to the consent. • String • MAN • **ISODate**

Integer • MAN • E.g.
"frequencyPerDay":4 • • **lastActionDate**• Date of the last modification made to the consent. • String • MAN • **ISODate**

MAN • E.g.
"frequencyPerDay":4 • • **lastActionDate**• Date of the last modification made to the consent. • String • MAN • **ISODate**

E.g. "frequencyPerDay":4 • • **lastActionDate**• Date of the last modification made to the consent. • String • MAN • **ISODate**

• **lastActionDate**• Date of the last modification made to the consent. • String • MAN • **ISODate**

lastActionDate• Date of the last modification made to the consent. • String • MAN • **ISODate**

Date of the last modification made to the consent. • String • MAN • **ISODate**

String • MAN • **ISODate**

MAN • **ISODate**

ISODate

E.g. "lastActionDate":"2018-01-01" • • **consentStatus**• Consent authentication status. Values defined in annexes. • String • MAN • E.g.
"consentStatus":"valid" • • **psuMessage**• Text to show to the PSU • String • OPT • ^.{1,512}\$

• **consentStatus**• Consent authentication status. Values defined in annexes. • String • MAN • E.g.
"consentStatus":"valid" • • **psuMessage**• Text to show to the PSU • String • OPT • ^.{1,512}\$

consentStatus• Consent authentication status. Values defined in annexes. • String • MAN • E.g.

"consentStatus":"valid" • • **psuMessage** • Text to show to the PSU • String • OPT • $\wedge.\{1,512\}$ \$

Consent authentication status. Values defined in annexes. • String • MAN • E.g.

"consentStatus":"valid" • • **psuMessage** • Text to show to the PSU • String • OPT • $\wedge.\{1,512\}$ \$

String • MAN • E.g.

"consentStatus":"valid" • • **psuMessage** • Text to show to the PSU • String • OPT • $\wedge.\{1,512\}$ \$

MAN • E.g.

"consentStatus":"valid" • • **psuMessage** • Text to show to the PSU • String • OPT • $\wedge.\{1,512\}$ \$

E.g. "consentStatus":"valid" • • **psuMessage** • Text to show to the PSU • String • OPT • $\wedge.\{1,512\}$ \$

• **psuMessage** • Text to show to the PSU • String • OPT • $\wedge.\{1,512\}$ \$

psuMessage • Text to show to the PSU • String • OPT • $\wedge.\{1,512\}$ \$

Text to show to the PSU • String • OPT • $\wedge.\{1,512\}$ \$

String • OPT • $\wedge.\{1,512\}$ \$

OPT • $\wedge.\{1,512\}$ \$

$\wedge.\{1,512\}$ \$

E.g. "psuMessage":"Information for PSU" • • **tppMessages** • Message for the TPP • List<TppMessage> • OPT • E.g. "tppMessages":[...] • •

• **tppMessages** • Message for the TPP • List<TppMessage> • OPT • E.g. "tppMessages":[...] • •

tppMessages • Message for the TPP • List<TppMessage> • OPT • E.g. "tppMessages":[...] • •

Message for the TPP • List<TppMessage> • OPT • E.g. "tppMessages":[...] • •

List<TppMessage> • OPT • E.g. "tppMessages":[...] • •

OPT • E.g. "tppMessages":[...] • •

E.g. "tppMessages":[...] • •

•

3.2.4.3 Examples

Example of request

```
GET https://www.hub.com/aspsp-name/v1/consents/7890-
asdf-4321/
Accept: application/json
X-Request-ID: 96201400-6ff9-11e8-adc0-fa7ae01bbebc
Authorization: Bearer 2YotnFZFEjrlzCsicMWpAA
PSU-IP-Address: 192.168.8.16
PSU-IP-Port: 443
PSU-Accept: application/json
PSU-Accept-Charset: utf-8
PSU-Accept-Encoding: gzip
PSU-Accept-Language: es-ES
PSU-User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64;
rv:54.0) Gecko/20100101 Firefox/54.0
PSU-Http-Method: GET
PSU-Device-ID: f8b3feda-6fe3-11e8-adc0-fa7ae01bbebc
PSU-GEO-Location: GEO:12.526347;54.649862
Date: Sun, 26 Sep 2017 15:02:48 GMT
```

Example of response to consent with dedicated accounts

```
HTTP/1.1 200 Ok
X-Request-ID: 96201400-6ff9-11e8-adc0-fa7ae01bbebc
Date: Sun, 26 Sep 2017 15:02:50 GMT
Content-Type: application/json
{
  "access": {
    "balances": [
      {
        "iban": "ES1111111111111111111111"
      },
      {
        "iban":
```

```
"ES222222222222222222222222",
  "currency": "USD"
},
{
  "iban": "ES333333333333333333333333"
}
],
"transactions": [
{
  "iban": "ES111111111111111111111111"
}
]
},
"recurringIndicator": true,
"validUntil": "2018-05-17",
"frequencyPerDay": 4,
"lastActionDate": "2018-01-17",
"consentStatus": "valid"
}
```

Example of response to consent with global availableAccounts

```
HTTP/1.1 200 Ok
X-Request-ID: 96201400-6ff9-11e8-adc0-fa7ae01bbebc
Date: Sun, 26 Sep 2017 15:02:50 GMT
Content-Type: application/json
{
  "access": {
    "availableAccounts": "allAccounts"
  },
  "recurringIndicator": true,
  "validUntil": "2018-05-17",
  "frequencyPerDay": 4,
  "lastActionDate": "2018-01-17",
  "consentStatus": "valid"
}
```

3.2.5 Remove consent

3.2.5.1 Request

This request may be sent by a TPP to the HUB to request the removal of a previously created consent.

Endpoint

DELETE {provider}/{aspsp}/v1/consents/{consentId}

Path

Field• Description• Type• Man.• Format• • provider

• URL of the HUB where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** • Identifier of the resource that references the consent.

Description• Type• Man.• Format• • provider• URL

of the HUB where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** • Identifier of the resource that references the consent.

Type• Man.• Format• • provider• URL of the HUB

where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** • Identifier of the resource that references the consent.

Man.• Format• • provider• URL of the HUB where the

service is published. • String • MAN • E.g.

www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** • Identifier of the resource that references the consent.

Format• • provider• URL of the HUB where the

service is published. • String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** • Identifier of the resource that references the consent.

• **provider** • URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** • Identifier of the resource that references the consent.

provider • URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** • Identifier of the resource that references the consent.

URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** • Identifier of the resource that references the consent.

String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** • Identifier of the resource that references the consent.

MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** • Identifier of the resource that references the consent.

E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** • Identifier of the resource that references the consent.

• **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **consentId** • Identifier of the resource that references the consent.

aspsp• Name of the ASPSP to which the request is made.
• String• MAN• E.g. aspsp-name
• • **consentId**• Identifier of the resource that references the consent.

Name of the ASPSP to which the request is made.
• String• MAN• E.g. aspsp-name
• • **consentId**• Identifier of the resource that references the consent.

String• MAN• E.g. aspsp-name
• • **consentId**• Identifier of the resource that references the consent.

MAN• E.g. aspsp-name
• • **consentId**• Identifier of the resource that references the consent.

E.g. aspsp-name
• • **consentId**• Identifier of the resource that references the consent.

• **consentId**• Identifier of the resource that references the consent.

consentId• Identifier of the resource that references the consent.

Identifier of the resource that references the consent.

Sent previously as a response to a request message for consent from the TPP to the HUB.
• String• MAN• $\wedge.\{1,36\}\$$

String• MAN• $\wedge.\{1,36\}\$$

MAN• $\wedge.\{1,36\}\$$

$\wedge.\{1,36\}\$$

E.g. 7890-asdf-4321• •

•

Query parameters

No additional fields are specified.

Header

Field• **Description**• **Type**• **Man.**• **Format**• • **X-Request-ID**• ID of the request, unique to the call, as determined by the initiating

party..• String• MAN• **UUID**

Description• Type• Man.• Format• • X-Request-ID• ID of the request, unique to the call, as determined by the initiating party..• String• MAN• **UUID**

Type• Man.• Format• • X-Request-ID• ID of the request, unique to the call, as determined by the initiating party..• String• MAN• **UUID**

Man.• Format• • X-Request-ID• ID of the request, unique to the call, as determined by the initiating party..• String• MAN• **UUID**

Format• • X-Request-ID• ID of the request, unique to the call, as determined by the initiating party..• String• MAN• **UUID**

• **X-Request-ID•** ID of the request, unique to the call, as determined by the initiating party..• String• MAN• **UUID**

X-Request-ID• ID of the request, unique to the call, as determined by the initiating party..• String• MAN• **UUID**

ID of the request, unique to the call, as determined by the initiating party..• String• MAN• **UUID**

String• MAN• **UUID**

MAN• **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7• • **Authorisation•** Bearer Token. Obtained in a prior authentication on OAuth2.• String• MAN• E.g.

• **Authorisation•** Bearer Token. Obtained in a prior authentication on OAuth2.• String• MAN• E.g.

Authorisation• Bearer Token. Obtained in a prior authentication on OAuth2.• String• MAN• E.g.

Bearer Token. Obtained in a prior authentication on OAuth2.• String• MAN• E.g.

String • MAN • E.g.

MAN • E.g.

E.g.

Authorisation: Bearer

2YotnFZFEjr1zCsicMWpAA • • **PSU-IP-Address** • The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

• **PSU-IP-Address** • The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

PSU-IP-Address • The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

between PSU and TPP.

If not available, the TPP shall use the IP Address used by the TPP when submitting this request.

• String • OPT • $^{[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}}\$$

String • OPT • $^{[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}}\$$

OPT • $^{[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}}\$$

$^{[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}}\$$

E.g.

PSU-IP-Address: 192.168.16.5 • • **PSU-IP-Port** • The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available. • String • OPT • $^{\\d\{1,5\}}\$$

• **PSU-IP-Port** • The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available.

• String • OPT • $^{\\d\{1,5\}}\$$

PSU-IP-Port • The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available.

• String • OPT • $^{\\d\{1,5\}}\$$

The forwarded IP Port header field consists of the

corresponding HTTP request IP Port field between PSU and TPP, if available. • String • OPT • ^\\d{1,5}\$

String • OPT • ^\\d{1,5}\$

OPT • ^\\d{1,5}\$

^\\d{1,5}\$

E.g. PSU-IP-Port: 443 • • **PSU-Accept** • The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available. • String • OPT • ^.{1,50}\$

• **PSU-Accept** • The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

• String • OPT • ^.{1,50}\$

PSU-Accept • The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

• String • OPT • ^.{1,50}\$

The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

• String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^.{1,50}\$

E.g. PSU-Accept: application/json • • **PSU-Accept-Charset** • Accept charset header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

• **PSU-Accept-Charset** • Accept charset header of the HTTP request between PSU and the

TPP. • String • OPT • ^.{1,50}\$

PSU-Accept-Charset • Accept charset header of the HTTP request between PSU and the

TPP. • String • OPT • ^.{1,50}\$

Accept charset header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^.{1,50}\$

E.g. PSU-Accept-Charset: utf-8 • • **PSU-Accept-Encoding**• Accept encoding header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

• **PSU-Accept-Encoding**• Accept encoding header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

PSU-Accept-Encoding• Accept encoding header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

Accept encoding header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^.{1,50}\$

E.g. PSU-Accept-Encoding: gzip • • **PSU-Accept-Language**• Accept language header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

• **PSU-Accept-Language**• Accept language header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

PSU-Accept-Language• Accept language header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

Accept language header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^.{1,50}\$

E.g. PSU-Accept-Language: es-ES • • **PSU-User-Agent**• The forwarded Agent header field of the HTTP request between PSU and TPP, if available. • String • OPT • E.g.

• **PSU-User-Agent**• The forwarded Agent header field of the HTTP request between PSU and TPP, if available. • String • OPT • E.g.

PSU-User-Agent• The forwarded Agent header field of the HTTP request between PSU and TPP, if available. • String • OPT • E.g.

The forwarded Agent header field of the HTTP request between PSU and TPP, if available. • String • OPT • E.g.

String • OPT • E.g.

OPT • E.g.

E.g.

PSU-User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.5) Gecko/20091102 Firefox/3.5.5 (.NET CLR 3.5.30729) • • **PSU-Http-Method**• HTTP method used at the PSU – TPP interface, if available.

• **PSU-Http-Method**• HTTP method used at the PSU – TPP interface, if available.

PSU-Http-Method• HTTP method used at the PSU – TPP interface, if available.

HTTP method used at the PSU – TPP interface, if available.

Valid values are:

- GET
- POST
- PUT
- PATCH
- DELETE • String • OPT • E.g. PSU-Http-Method: DELETE • • **PSU-Device-ID**• UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

String • OPT • E.g. PSU-Http-Method: DELETE • • **PSU-Device-ID**• UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

OPT • E.g. PSU-Http-Method: DELETE • • **PSU-Device-ID**• UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

E.g. PSU-Http-Method: DELETE • • **PSU-Device-ID**• UUID (Universally Unique Identifier) for a device,

which is used by the PSU, if available.

• **PSU-Device-ID**• UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

PSU-Device-ID• UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

UUID identifies either a device or a device dependant application installation. In case of an installation identification this ID need to be unaltered until removal from device.

• String• OPT• **UUID**

String• OPT• **UUID**

OPT• **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

PSU-Device-ID: 5b3ab8e8-0fd5-43d2-946e-

d75958b172e7• • **PSU-Geo-Location**• The forwarded

Geo Location of the corresponding HTTP request

between PSU and TPP if available. • String• OPT• **RFC**

2426

• **PSU-Geo-Location**• The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String• OPT• **RFC 2426**

PSU-Geo-Location• The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String• OPT• **RFC 2426**

The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available.

• String• OPT• **RFC 2426**

String• OPT• **RFC 2426**

OPT• **RFC 2426**

RFC 2426

^GEO:[\\d]*.[\\d]*[;][\\d]*.[\\d]*\$

E.g.

PSU-Geo-Location:

GEO:90.023856;25.345963 • • **Digest** • Is contained if and only if the "Signature" element is contained in the header of the request.

• **Digest** • Is contained if and only if the "Signature" element is contained in the header of the request.

Digest • Is contained if and only if the "Signature" element is contained in the header of the request.

Is contained if and only if the "Signature" element is contained in the header of the request.

See 6.1 Signature for more information.

• String • MAN • ^.{1,100}\$

String • MAN • ^.{1,100}\$

MAN • ^.{1,100}\$

^.{1,100}\$

E.g. Digest: SHA-

256=NzdmZjA4YjY5M2M2NDYyMmVjOWFmMGNmYTZiNTU3MjVmNDI4NTRIMzJkYzE3ZmNmMDE3ZGFmMjhhNTc5OTU3OQ== • • **Signature** • A signature of the request by the TPP on application level.

• **Signature** • A signature of the request by the TPP on application level.

Signature • A signature of the request by the TPP on application level.

A signature of the request by the TPP on application level.

See 6.1 Signature for more information.

• String • MAN • See annexes

String • MAN • See annexes

MAN • See annexes

See annexes

• • **TPP-Signature-Certificate** • The certificate used for signing the request, in base64 encoding.

• String • MAN • ^.{1,5000}\$

• **TPP-Signature-Certificate** • The certificate used for signing the request, in base64 encoding.

- String• MAN• ^.{1,5000}\$

TPP-Signature-Certificate• The certificate used for signing the request, in base64 encoding.

- String• MAN• ^.{1,5000}\$

The certificate used for signing the request, in base64 encoding. • String• MAN• ^.{1,5000}\$

String• MAN• ^.{1,5000}\$

MAN• ^.{1,5000}\$

^.{1,5000}\$

E.g. TPP-Signature-Certificate:

MIIHgZCCBmugAwIBAgIIZzZvBQlt0UcwDQYJ.....KoZI
hvcNAQELBQAuSTELMAkGA1UEBhMCVVMxEzARBgNVBA

• •

•

Body

No additional data are sent.

3.2.5.2 Response

This message is sent by the HUB to TPP as a response to the request to remove the consent.

Header

Field• Description• Type• Man. • Format• • X-

Request-ID• ID of the request, unique to the call, as determined by the initiating party• String• MAN• **UUID**

Description• Type• Man. • Format• • X-Request-ID• ID of the request, unique to the call, as determined by the initiating party• String• MAN• **UUID**

Type• Man. • Format• • X-Request-ID• ID of the request, unique to the call, as determined by the initiating party• String• MAN• **UUID**

Man. • Format• • X-Request-ID• ID of the request, unique to the call, as determined by the initiating party• String• MAN• **UUID**

Format• • X-Request-ID• ID of the request, unique to

the call, as determined by the initiating party• String• MAN• **UUID**

• **X-Request-ID**• ID of the request, unique to the call, as determined by the initiating party• String• MAN• **UUID**

X-Request-ID• ID of the request, unique to the call, as determined by the initiating party• String• MAN• **UUID**

ID of the request, unique to the call, as determined by the initiating party• String• MAN• **UUID**

String• MAN• **UUID**

MAN• **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7• •

•

Body

No additional fields are specified.

3.2.5.3 Examples

Example of request

DELETE <https://www.hub.com/aspsp-name/v1/consents/7890-asdf-4321>

Accept: application/json

X-Request-ID: 96201400-6ff9-11e8-adc0-fa7ae01bbebc

Authorization: Bearer 2YotnFZFEjrlzCsicMWpAA

PSU-IP-Address: 192.168.8.16

PSU-IP-Port: 443

PSU-Accept-Charset: utf-8

PSU-Accept-Encoding: gzip

PSU-Accept-Language: es-ES

PSU-User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:54.0) Gecko/20100101 Firefox/54.0

PSU-Http-Method: DELETE

PSU-Device-ID: f8b3feda-6fe3-11e8-adc0-fa7ae01bbebc

PSU-GEO-Location: GEO:12.526347;54.649862

Date: Sun, 26 Sep 2017 15:02:48 GMT

Example of response

HTTP/1.1 204 OK

X-Request-ID: 96201400-6ff9-11e8-adc0-fa7ae01bbebc

Date: Sun, 26 Sep 2017 15:02:50 GMT

3.3 AIS: Account data reading service

3.3.1 Account list reading

This service allows a list of PSU accounts to be obtained, including the account balances if requested and the consent includes it.

This request is used both for the list of available accounts and the list of account details, depending on the consent used in the request.

As a requirement, it is assumed that the PSU has given its consent for this access and it has been stored by the ASPSP.

Operation of the service according to the type of access indicated in the consent:

Type of access • Description • • availableAccounts • This type of access is associated with once-only consents.

Description • • availableAccounts • This type of access is associated with once-only consents.

• availableAccounts • This type of access is associated with once-only consents.

availableAccounts • This type of access is associated with once-only consents.

This type of access is associated with once-only consents.

If the consent associated with the request has this type of

access, it will be a once-only consent and may be obtained:

- List of all the available PSU accounts.

The following may not be obtained:

- Account balances (unless supported by the ASPSP)
 - Links to the endpoint of balances or transactions
 - availableAccountsWithBalances
- This type of access is associated with once-only consents.
- availableAccountsWithBalances
- This type of access is associated with once-only consents.

availableAccountsWithBalances

This type of access is associated with once-only consents.

This type of access is associated with once-only consents.

If the consent associated with the request has this type of access, it will be a once-only consent and may be obtained:

- List of all the available PSU accounts.
- Account balances (unless supported by the ASPSP)

The following may not be obtained:

- Links to the endpoint of balances or transactions
- account

If the consent associated with the request has this type of access, the accounts included in the consent with the "account" type of access may be listed.

- balances

If the consent associated with the request has this type of access, the accounts included in the consent with the "balances" type of access may be listed and their balances may be obtained if supported by the ASPSP.

- transactions

If the consent has accounts with this type of access, these accounts may be listed with the "account" access type. This type of access does not imply a "balances" type of access.

- allPsd2

If the consent associated with the request has this type of access, the accounts included in the consent may be listed and their balances may be obtained.

- account

If the consent associated with the request has this type of access, the accounts included in the consent with the "account" type of access may be listed.

- balances

If the consent associated with the request has this type of access, the accounts included in the consent with the "balances" type of access may be listed and their balances may be obtained if supported by the ASPSP.

- transactions

If the consent has accounts with this type of access, these accounts may be listed with the "account" access type. This type of access does not imply a "balances" type of access.

- allPsd2

If the consent associated with the request has this type of access, the accounts included in the consent may be listed and their balances may be obtained.

account• If the consent associated with the request has this type of access, the accounts included in the consent with the "account" type of access may be listed. • • balances• If the consent associated with the request has this type of access, the accounts included in the consent with the "balances" type of access may be listed and their balances may be obtained if supported by the ASPSP. • • transactions• If the consent has accounts with this type of access, these accounts may be listed with the "account" access type. This type of access does not imply a "balances" type of access. • • allPsd2• If the consent associated with the request has this type of access, the accounts included in the consent may be listed and their balances may be obtained.

If the consent associated with the request has this type of access, the accounts included in the consent with the "account" type of access may be listed. • • balances• If the consent associated with the request has this type of access, the accounts included in the consent with the "balances" type of access may be listed and their balances may be obtained if supported by the ASPSP. • • transactions• If the consent has accounts with this type of access, these accounts may be listed with the "account" access type. This type of access does not imply a "balances" type of access. • • allPsd2• If the consent associated with the request has this type of access, the accounts included in the consent may be listed and their balances may be obtained.

• balances• If the consent associated with the request has this type of access, the accounts included in the consent with the "balances" type of access may be listed and their balances may be obtained if supported by the ASPSP. • • transactions• If the consent has accounts with this type of access, these accounts may be listed with the "account" access type. This type of access does not imply a "balances" type of access. • • allPsd2• If the consent associated with the request has this type of access, the accounts included in the consent may be listed and their balances may be obtained.

balances• If the consent associated with the request has this type of access, the accounts included in the consent with the "balances" type of access may be listed and their balances may be obtained if supported by the ASPSP. • • transactions• If the consent has accounts with this type of access, these accounts may be listed with the "account" access type. This type of access does not imply a "balances" type of access. • • allPsd2• If the consent associated with the request has this type of access, the accounts included in the consent may be listed and their balances may be obtained.

If the consent associated with the request has this type of access, the accounts included in the consent with the "balances" type of access may be listed and their balances may be obtained if supported by the

ASPS. • • transactions • If the consent has accounts with this type of access, these accounts may be listed with the "account" access type. This type of access does not imply a "balances" type of access. • • allPsd2 • If the consent associated with the request has this type of access, the accounts included in the consent may be listed and their balances may be obtained.

• transactions • If the consent has accounts with this type of access, these accounts may be listed with the "account" access type. This type of access does not imply a "balances" type of access. • • allPsd2 • If the consent associated with the request has this type of access, the accounts included in the consent may be listed and their balances may be obtained.

transactions • If the consent has accounts with this type of access, these accounts may be listed with the "account" access type. This type of access does not imply a "balances" type of access. • • allPsd2 • If the consent associated with the request has this type of access, the accounts included in the consent may be listed and their balances may be obtained.

If the consent has accounts with this type of access, these accounts may be listed with the "account" access type. This type of access does not imply a "balances" type of access. • • allPsd2 • If the consent associated with the request has this type of access, the accounts included in the consent may be listed and their balances may be obtained.

• allPsd2 • If the consent associated with the request has this type of access, the accounts included in the consent may be listed and their balances may be obtained.

allPsd2 • If the consent associated with the request has this type of access, the accounts included in the consent may be listed and their balances may be obtained.

If the consent associated with the request has this type of access, the accounts included in the consent may be listed and their balances may be obtained.

Note: allPsd2 grants the three types of access. • •

•

3.3.1.1 Request

Endpoint

GET {provider}/{aspsp}/v1/accounts{query-parameters}

Path

Field • **Description** • **Type** • **Man.** • **Format** • **provider** • URL of the HUB where the service is published • String • MAN • E.g.

www.hub.com • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name •

Description • **Type** • **Man.** • **Format** • **provider** • URL of the HUB where the service is published • String • MAN • E.g. www.hub.com • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name •

Type • **Man.** • **Format** • **provider** • URL of the HUB where the service is published • String • MAN • E.g. www.hub.com • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name •

Man. • **Format** • **provider** • URL of the HUB where the service is published • String • MAN • E.g. www.hub.com • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name •

Format • **provider** • URL of the HUB where the service is published • String • MAN • E.g. www.hub.com • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name •

• **provider** • URL of the HUB where the service is published • String • MAN • E.g. www.hub.com • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name •

provider • URL of the HUB where the service is published • String • MAN • E.g. www.hub.com • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name •

URL of the HUB where the service is published • String • MAN • E.g. www.hub.com • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name •

String • MAN • E.g. www.hub.com • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name •

MAN• E.g. www.hub.com• • **aspsp**• Name of the ASPSP to which the request is made. • String• MAN• E.g. aspsp-name• •

E.g. www.hub.com• • **aspsp**• Name of the ASPSP to which the request is made. • String• MAN• E.g. aspsp-name• •

• **aspsp**• Name of the ASPSP to which the request is made. • String• MAN• E.g. aspsp-name• •

aspsp• Name of the ASPSP to which the request is made. • String• MAN• E.g. aspsp-name• •

Name of the ASPSP to which the request is made. • String• MAN• E.g. aspsp-name• •

String• MAN• E.g. aspsp-name• •

MAN• E.g. aspsp-name• •

E.g. aspsp-name• •

•

Query parameters

Field• Description• Type• Man. • Format• • withBalance
• If it is included, this function includes the balances.

Description• Type• Man. • Format• • withBalance If it is included, this function includes the balances.

Type• Man. • Format• • withBalance If it is included, this function includes the balances.

Man. • Format• • withBalance If it is included, this function includes the balances.

Format• • withBalance If it is included, this function includes the balances.

• **withBalance** If it is included, this function includes the balances.

withBalance If it is included, this function includes the balances.

If it is included, this function includes the balances.

This request will be rejected if access to balances does not include consent or the ASPSP does not support this parameter. • Boolean• OPT• E.g. true• •

Boolean• OPT• E.g. true• •

OPT• E.g. true• •

E.g. true• •

•

Header

Field • **Description** • **Type** • **Man.** • **Format** • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Description • **Type** • **Man.** • **Format** • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Type • **Man.** • **Format** • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Man. • **Format** • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Format • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

• **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

String • MAN • **UUID**

MAN • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7 • **Authorisation** • Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

• **Authorisation** • Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

Authorisation• Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

String • MAN • E.g.

MAN • E.g.

E.g.

Authorisation: Bearer

2YotnFZFEjr1zCsicMWpAA • • **Consent-ID**

- Identification of the consent resource

- String • MAN • $\wedge.\{1,36\}\$$

- **Consent-ID** • Identification of the consent resource

- String • MAN • $\wedge.\{1,36\}\$$

Consent-ID • Identification of the consent resource

- String • MAN • $\wedge.\{1,36\}\$$

Identification of the consent resource

- String • MAN • $\wedge.\{1,36\}\$$

String • MAN • $\wedge.\{1,36\}\$$

MAN • $\wedge.\{1,36\}\$$

$\wedge.\{1,36\}\$$

E.g. Consent-ID: 7890-asdf-4321 • • **PSU-IP-**

Address• The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

- **PSU-IP-Address**• The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

PSU-IP-Address• The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

between PSU and TPP.

If not available, the TPP shall use the IP Address used by the TPP when submitting this request.

- String • COND • $\wedge[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}\$$

String• COND• ^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$

COND• ^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$

^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$

E.g.

PSU-IP-Address: 192.168.16.5 • • **PSU-IP-Port** The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available. • String• OPT• ^\\d{1,5}\$

• **PSU-IP-Port** The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available.

• String• OPT• ^\\d{1,5}\$

PSU-IP-Port The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available.

• String• OPT• ^\\d{1,5}\$

The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available. • String• OPT• ^\\d{1,5}\$

String• OPT• ^\\d{1,5}\$

OPT• ^\\d{1,5}\$

^\\d{1,5}\$

E.g. PSU-IP-Port: 443 • • **PSU-Accept** The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available. • String• OPT• ^.{1,50}\$

• **PSU-Accept** The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

• String• OPT• ^.{1,50}\$

PSU-Accept The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

• String• OPT• ^.{1,50}\$

The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

• String• OPT• ^.{1,50}\$

String• OPT• ^.{1,50}\$

OPT• ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept: application/json• • **PSU-Accept-Charset**• Accept charset header of the HTTP request between PSU and the TPP.• String• OPT• ^.{1,50}\$

• **PSU-Accept-Charset**• Accept charset header of the HTTP request between PSU and the TPP.• String• OPT• ^.{1,50}\$

PSU-Accept-Charset• Accept charset header of the HTTP request between PSU and the TPP.• String• OPT• ^.{1,50}\$

Accept charset header of the HTTP request between PSU and the TPP.• String• OPT• ^.{1,50}\$

String• OPT• ^.{1,50}\$

OPT• ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept-Charset: utf-8• • **PSU-Accept-Encoding**• Accept encoding header of the HTTP request between PSU and the TPP.• String• OPT• ^.{1,50}\$

• **PSU-Accept-Encoding**• Accept encoding header of the HTTP request between PSU and the TPP.• String• OPT• ^.{1,50}\$

PSU-Accept-Encoding• Accept encoding header of the HTTP request between PSU and the TPP.• String• OPT• ^.{1,50}\$

Accept encoding header of the HTTP request between PSU and the TPP.• String• OPT• ^.{1,50}\$

String• OPT• ^.{1,50}\$

OPT• ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept-Encoding: gzip• • **PSU-Accept-Language**• Accept language header of the HTTP request between PSU and the TPP.• String• OPT• ^.{1,50}\$

• **PSU-Accept-Language**• Accept language header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

PSU-Accept-Language• Accept language header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

Accept language header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^.{1,50}\$

E.g. PSU-Accept-Language: es-ES • • **PSU-User-Agent**

• The forwarded Agent header field of the HTTP request between PSU and TPP, if available.

• String • OPT • E.g.

• **PSU-User-Agent**• The forwarded Agent header field of the HTTP request between PSU and TPP, if available.

• String • OPT • E.g.

PSU-User-Agent• The forwarded Agent header field of the HTTP request between PSU and TPP, if available.

• String • OPT • E.g.

The forwarded Agent header field of the HTTP request between PSU and TPP, if available. • String • OPT • E.g.

String • OPT • E.g.

OPT • E.g.

E.g.

PSU-User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.5) Gecko/20091102 Firefox/3.5.5 (.NET CLR 3.5.30729) • • **PSU-Http-Method**• HTTP method used at the PSU – TPP interface, if available.

• **PSU-Http-Method**• HTTP method used at the PSU – TPP interface, if available.

PSU-Http-Method• HTTP method used at the PSU – TPP interface, if available.

HTTP method used at the PSU – TPP interface, if available.

Valid values are:

- GET
- POST
- PUT
- PATCH

• DELETE • String • OPT • E.g. PSU-Http-Method: GET • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

String • OPT • E.g. PSU-Http-Method: GET • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

OPT • E.g. PSU-Http-Method: GET • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

E.g. PSU-Http-Method: GET • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

• **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

PSU-Device-ID • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

UUID identifies either a device or a device dependant application installation. In case of an installation identification this ID need to be unaltered until removal from device.

- String • OPT • **UUID**

String • OPT • **UUID**

OPT • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

PSU-Device-ID: 5b3ab8e8-0fd5-43d2-946e-

d75958b172e7 • • **PSU-Geo-Location** • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String • OPT • **RFC 2426**

• **PSU-Geo-Location** • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String • OPT • **RFC 2426**

PSU-Geo-Location • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String • OPT • **RFC 2426**

The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available.

• String • OPT • **RFC 2426**

String • OPT • **RFC 2426**

OPT • **RFC 2426**

RFC 2426

^GEO:[\\d]*.[\\d]*[;][\\d]*.[\\d]*\$

E.g.

PSU-Geo-Location:

GEO:90.023856;25.345963 • • **Digest** • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available.

• **Digest** • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available.

Digest • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available.

The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available.

• String • MAN • ^.{1,100}\$

String • MAN • ^.{1,100}\$

MAN • ^.{1,100}\$

^.{1,100}\$

E.g. Digest: SHA-

256=NzdmZjA4YjY5M2M2NDYyMmVjOWFmMGNmYTZiNTU3MjVmNDI4NTRIMzJkYzE3ZmNmMDE3ZGFmMjhhNTc

50TU30Q==
 • **Signature** Is contained if and only if the "Signature" element is contained in the header of the request.

• **Signature** Is contained if and only if the "Signature" element is contained in the header of the request.

Signature Is contained if and only if the "Signature" element is contained in the header of the request.

Is contained if and only if the "Signature" element is contained in the header of the request.

See 6.1 Signature for more information.

• String• MAN• See annexes
 String• MAN• See annexes
 MAN• See annexes
 See annexes

• **TPP-Signature-Certificate** A signature of the request by the TPP on application level.

• **TPP-Signature-Certificate** A signature of the request by the TPP on application level.

TPP-Signature-Certificate A signature of the request by the TPP on application level.

A signature of the request by the TPP on application level.

See 6.1 Signature for more information.

• String• MAN• ^.{1,5000}\$

String• MAN• ^.{1,5000}\$

MAN• ^.{1,5000}\$

^{1,5000}\$

E.g. TPP-Signature-Certificate:

MIIHgZCCBmugAwIBAgIIZzZvBQlt0UcwDQYJ.....KoZI
 hvcNAQELBQAuSTELMAkGA1UEBhMCVVMxEzARBgNVBA

• •
 •

Body

Data are not sent in the body in this request.

3.3.1.2 Response

Header

Field • Description • Type • Man. • Format • • X-Request-ID ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

Description • Type • Man. • Format • • X-Request-ID ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Type • Man. • Format • • X-Request-ID ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Man. • Format • • X-Request-ID ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Format • • X-Request-ID ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

• **X-Request-ID** ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

X-Request-ID ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

String • MAN • **UUID**

MAN • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7 • •

•

Body

Field • **Description** • **Type** • **Mand.** • **Format** • • **accounts** • List of available accounts.

• List<AccountDetails> • MAN • E.g. "accounts":
[] • • **psuMessage** • Text to show to the
PSU. • String • OPT • ^.{1,512}\$

Description • **Type** • **Mand.** • **Format** • • **accounts** • List of available accounts.

• List<AccountDetails> • MAN • E.g. "accounts":
[] • • **psuMessage** • Text to show to the
PSU. • String • OPT • ^.{1,512}\$

Type • **Mand.** • **Format** • • **accounts** • List of available accounts. • List<AccountDetails> • MAN • E.g. "accounts": [] • • **psuMessage** • Text to show to the PSU. • String • OPT • ^.{1,512}\$

Mand. • **Format** • • **accounts** • List of available accounts. • List<AccountDetails> • MAN • E.g. "accounts": [] • • **psuMessage** • Text to show to the PSU. • String • OPT • ^.{1,512}\$

Format • • **accounts** • List of available accounts. • List<AccountDetails> • MAN • E.g. "accounts": [] • • **psuMessage** • Text to show to the PSU. • String • OPT • ^.{1,512}\$

• **accounts** • List of available accounts. • List<AccountDetails> • MAN • E.g. "accounts": [] • • **psuMessage** • Text to show to the PSU. • String • OPT • ^.{1,512}\$

accounts • List of available accounts. • List<AccountDetails> • MAN • E.g. "accounts": [] • • **psuMessage** • Text to show to the PSU. • String • OPT • ^.{1,512}\$

List of available accounts. • List<AccountDetails> • MAN • E.g. "accounts": [] • • **psuMessage** • Text to show to the PSU. • String • OPT • ^.{1,512}\$

List<AccountDetails> • MAN • E.g. "accounts": [] • • **psuMessage** • Text to show to the PSU. • String • OPT • ^.{1,512}\$

MAN • E.g. "accounts": [] • • **psuMessage** • Text to show to the PSU. • String • OPT • ^.{1,512}\$

E.g. "accounts": [] • • **psuMessage** • Text to show to the PSU. • String • OPT • ^.{1,512}\$

• **psuMessage** • Text to show to the PSU. • String • OPT • ^.{1,512}\$

psuMessage • Text to show to the PSU. • String • OPT • ^.{1,512}\$

Text to show to the PSU. • String • OPT • ^.{1,512}\$

String • OPT • ^.{1,512}\$

OPT • ^.{1,512}\$

^.{1,512}\$

E.g. "psuMessage": "Information for PSU" • • **tppMessages** • Message for the TPP. • List<TppMessage> • OPT • E.g. "tppMessages": [...] • •

• **tppMessages** • Message for the TPP. • List<TppMessage> • OPT • E.g. "tppMessages": [...] • •

tppMessages • Message for the TPP. • List<TppMessage> • OPT • E.g. "tppMessages": [...] • •

Message for the TPP. • List<TppMessage> • OPT • E.g. "tppMessages": [...] • •

List<TppMessage> • OPT • E.g. "tppMessages": [...] • •

OPT • E.g. "tppMessages": [...] • •

E.g. "tppMessages": [...] • •

•

3.3.1.3 Examples

Example of request to obtain list of accessible PSU accounts

GET <https://www.hub.com/aspsp-name/v1/accounts>

Content-Encoding: gzip

Content-Type: application/json

X-Request-ID: 96201400-6ff9-11e8-adc0-fa7ae01bbebc

Authorization: Bearer 2YotnFZFEjrlzCsicMWpAA

PSD2 – Diseño Técnico TPP

```
Consent-ID: 7890-asdf-4321
PSU-IP-Address: 192.168.8.16
PSU-IP-Port: 443
PSU-Accept: application/json
PSU-Accept-Charset: utf-8
PSU-Accept-Encoding: gzip
PSU-Accept-Language: es-ES
PSU-User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:54.0) Gecko/20100101 Firefox/54.0
PSU-Http-Method: GET
PSU-Device-ID: f8b3feda-6fe3-11e8-adc0-fa7ae01bbebc
PSU-GEO-Location: GEO:12.526347;54.649862
Date: Sun, 26 Sep 2017 15:02:48 GMT
```

Example of the response obtaining list of accessible PSU accounts

Response where the consent has been given for two different IBAN numbers.

```
HTTP/1.1 200 OK
X-Request-ID: 96201400-6ff9-11e8-adc0-fa7ae01bbebc
Date: Sun, 26 Sep 2017 15:02:50 GMT
Content-Type: application/json
{
  "accounts": [
    {
      "resourceId": "3dc3d5b3-7023-4848-9853-f5400a64e80f",
      "iban": "ES1111111111111111111111",
      "currency": "EUR",
      "product": "Girokonto",
      "cashAccountType": "CACC",
      "name": "Main Account",
      "_links": {
        "balances": {
          "href": "/v1/accounts/3dc3d5b3-7023-4848-
```

```

    "9853-f5400a64e80f/balances"
  },
  "transactions": {
    "href":
    "/v1/accounts/3dc3d5b3-7023-4848-9853-f5400a64e80f/transactions"
  }
}
},
{
  "resourceId": "3dc3d5b3-7023-4848-9853-f5400a64e81g",
  "iban": "ES2222222222222222222222",
  "currency": "USD",
  "cashAccountType": "CACC",
  "name": "US Dollar Account",
  "_links": {
    "balances": {
      "href":
      "/v1/accounts/3dc3d5b3-7023-4848-9853-f5400a64e81g/balances"
    }
  }
}
}
}
}
}

```

3.3.2 Reading account details

This service allows the account details to be read with the balances if required.

As a requirement, it is assumed that the PSU has given its consent for this access and it has been stored by the ASPSP.

Operation of the service according to the type of access indicated in the consent:

Type of access • **Description** • • availableAccounts • This

type of access does not allow consumption of this service. • • availableAccountsWithBalances • This type of access does not allow consumption of this service. • • account • If the consent associated with the request has this type of access, the account may be queried. • • balances • If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained if the ASPSP supports it. • • transactions • If the consent has accounts with this type of access, this account may be queried with the "account" access type. This type of access does not imply a "balances" type of access. • • allPsd2 • If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained.

Description • • availableAccounts • This type of access does not allow consumption of this service. • • availableAccountsWithBalances • This type of access does not allow consumption of this service. • • account • If the consent associated with the request has this type of access, the account may be queried. • • balances • If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained if the ASPSP supports it. • • transactions • If the consent has accounts with this type of access, this account may be queried with the "account" access type. This type of access does not imply a "balances" type of access. • • allPsd2 • If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained.

• availableAccounts • This type of access does not allow consumption of this service. • • availableAccountsWithBalances • This type of access does not allow consumption of this service. • • account • If the consent associated with the request has this type of access, the account may be queried. • • balances • If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained if the ASPSP supports it. • • transactions • If the consent has accounts with this type of access, this account may be queried with the "account" access type. This type of access does not imply a "balances" type of access. • • allPsd2 • If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained.

availableAccounts • This type of access does not allow consumption of this service. • • availableAccountsWithBalances • This type of access does not allow consumption of this

service. • • account • If the consent associated with the request has this type of access, the account may be queried. • • balances • If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained if the ASPSP supports it. • • transactions • If the consent has accounts with this type of access, this account may be queried with the "account" access type. This type of access does not imply a "balances" type of access. • • allPsd2 • If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained.

This type of access does not allow consumption of this service. • • availableAccountsWithBalances • This type of access does not allow consumption of this service. • • account • If the consent associated with the request has this type of access, the account may be queried. • • balances • If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained if the ASPSP supports it. • • transactions • If the consent has accounts with this type of access, this account may be queried with the "account" access type. This type of access does not imply a "balances" type of access. • • allPsd2 • If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained.

• availableAccountsWithBalances • This type of access does not allow consumption of this service. • • account • If the consent associated with the request has this type of access, the account may be queried. • • balances • If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained if the ASPSP supports it. • • transactions • If the consent has accounts with this type of access, this account may be queried with the "account" access type. This type of access does not imply a "balances" type of access. • • allPsd2 • If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained.

availableAccountsWithBalances • This type of access does not allow consumption of this service. • • account • If the consent associated with the request has this type of access, the account may be queried. • • balances • If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained if the ASPSP supports it. • • transactions • If the consent has accounts with this type of access, this account may be queried with the "account" access type. This type of access does not imply a "balances" type of access. • • allPsd2 • If the

consent associated with the request has this type of access, the account may be queried and its balances may be obtained.

This type of access does not allow consumption of this service.

- **account**• If the consent associated with the request has this type of access, the account may be queried.
- **balances**• If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained if the ASPSP supports it.
- **transactions**• If the consent has accounts with this type of access, this account may be queried with the "account" access type. This type of access does not imply a "balances" type of access.
- **allPsd2**• If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained.

- **account**• If the consent associated with the request has this type of access, the account may be queried.
- **balances**• If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained if the ASPSP supports it.
- **transactions**• If the consent has accounts with this type of access, this account may be queried with the "account" access type. This type of access does not imply a "balances" type of access.
- **allPsd2**• If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained.

account• If the consent associated with the request has this type of access, the account may be queried.

- **balances**• If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained if the ASPSP supports it.
- **transactions**• If the consent has accounts with this type of access, this account may be queried with the "account" access type. This type of access does not imply a "balances" type of access.
- **allPsd2**• If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained.

If the consent associated with the request has this type of access, the account may be queried.

- **balances**• If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained if the ASPSP supports it.
- **transactions**• If the consent has accounts with this type of access, this account may be queried with the "account" access type. This type of access does not imply a "balances" type of access.
- **allPsd2**• If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained.

- **balances**• If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained if the ASPSP supports it.
- **transactions**• If the consent has accounts with this type of access, this account may be queried with the "account" access type. This type of access does not imply a "balances" type of access.
- **allPsd2**• If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained.

balances• If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained if the ASPSP supports it.

transactions• If the consent has accounts with this type of access, this account may be queried with the "account" access type. This type of access does not imply a "balances" type of access.

allPsd2• If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained.

If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained if the ASPSP supports it.

transactions• If the consent has accounts with this type of access, this account may be queried with the "account" access type. This type of access does not imply a "balances" type of access.

allPsd2• If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained.

- **transactions**• If the consent has accounts with this type of access, this account may be queried with the "account" access type. This type of access does not imply a "balances" type of access.
- **allPsd2**• If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained.

transactions• If the consent has accounts with this type of access, this account may be queried with the "account" access type. This type of access does not imply a "balances" type of access.

allPsd2• If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained.

If the consent has accounts with this type of access, this account may be queried with the "account" access type. This type of access does not imply a "balances" type of access.

allPsd2• If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained.

- **allPsd2**• If the consent associated with the request has this type of access, the account may be queried and its balances

may be obtained.

allPsd2• If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained.

If the consent associated with the request has this type of access, the account may be queried and its balances may be obtained.

Note: allPsd2 grants the three types of access. • •

•

3.3.2.1 Request

Endpoint

GET {provider}/{aspsp}/v1/accounts/{account-id}{query-parameters}

Path

Field• Description• Type• Man.• Format• • provider• U
RL of the HUB where the service is
published• String• MAN• E.g.
www.hub.com• • **aspsp•** Name of the ASPSP to which the
request is made. • String• MAN• E.g. aspsp-
name• • **account-id•** Identifier of the account assigned
by the ASPSP• String• MAN• ^.{1,100}\$

Description• Type• Man.• Format• • provider• URL of
the HUB where the service is
published• String• MAN• E.g.
www.hub.com• • **aspsp•** Name of the ASPSP to which the
request is made. • String• MAN• E.g. aspsp-
name• • **account-id•** Identifier of the account assigned
by the ASPSP• String• MAN• ^.{1,100}\$

Type• Man.• Format• • provider• URL of the HUB where
the service is published• String• MAN• E.g.
www.hub.com• • **aspsp•** Name of the ASPSP to which the
request is made. • String• MAN• E.g. aspsp-
name• • **account-id•** Identifier of the account assigned
by the ASPSP• String• MAN• ^.{1,100}\$

Man.• Format• • provider• URL of the HUB where the
service is published• String• MAN• E.g.

www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **account-id** • Identifier of the account assigned by the ASPSP • String • MAN • ^.{1,100}\$

Formato • • **provider** • URL of the HUB where the service is published • String • MAN • E.g.

www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **account-id** • Identifier of the account assigned by the ASPSP • String • MAN • ^.{1,100}\$

• **provider** • URL of the HUB where the service is published • String • MAN • E.g.

www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **account-id** • Identifier of the account assigned by the ASPSP • String • MAN • ^.{1,100}\$

provider • URL of the HUB where the service is published • String • MAN • E.g.

www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **account-id** • Identifier of the account assigned by the ASPSP • String • MAN • ^.{1,100}\$

URL of the HUB where the service is published • String • MAN • E.g.

www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **account-id** • Identifier of the account assigned by the ASPSP • String • MAN • ^.{1,100}\$

String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **account-id** • Identifier of the account assigned by the ASPSP • String • MAN • ^.{1,100}\$

MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **account-id** • Identifier of the account assigned by the ASPSP • String • MAN • ^.{1,100}\$

E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **account-id** • Identifier of the account assigned by the ASPSP • String • MAN • ^.{1,100}\$

• **aspsp** • Name of the ASPSP to which the request is

made. • String • MAN • E.g. aspsp-name • • **account-id** Identifier of the account assigned by the ASPSP • String • MAN • ^.{1,100}\$

aspsp Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **account-id** Identifier of the account assigned by the ASPSP • String • MAN • ^.{1,100}\$

Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **account-id** Identifier of the account assigned by the ASPSP • String • MAN • ^.{1,100}\$

String • MAN • E.g. aspsp-name • • **account-id** Identifier of the account assigned by the ASPSP • String • MAN • ^.{1,100}\$

MAN • E.g. aspsp-name • • **account-id** Identifier of the account assigned by the ASPSP • String • MAN • ^.{1,100}\$

E.g. aspsp-name • • **account-id** Identifier of the account assigned by the ASPSP • String • MAN • ^.{1,100}\$

• **account-id** Identifier of the account assigned by the ASPSP • String • MAN • ^.{1,100}\$

account-id Identifier of the account assigned by the ASPSP • String • MAN • ^.{1,100}\$

Identifier of the account assigned by the ASPSP • String • MAN • ^.{1,100}\$

String • MAN • ^.{1,100}\$

MAN • ^.{1,100}\$

^.{1,100}\$

E.g. account-id=a1q5w • •

•

Query parameters

Field • Description • Type • Man. • Format • • withBalance

• If it is included, this function includes the balances.

Description • Type • Man. • Format • • withBalance If it is included, this function includes the balances.

Type • Man. • Format • • withBalance If it is included, this

function includes the balances.

Man. • Format • withBalance If it is included, this function includes the balances.

Format • withBalance If it is included, this function includes the balances.

• withBalance If it is included, this function includes the balances.

withBalance If it is included, this function includes the balances.

If it is included, this function includes the balances.

This request will be rejected if access to balances does not include consent or the ASPSP does not support this parameter. • Boolean • OPT • E.g. true •

Boolean • OPT • E.g. true •

OPT • E.g. true •

E.g. true •

•

Header

Field • Description • Type • Man. • Format • X-Request-ID ID of the request, unique to the call, as determined by the initiating party.. • String • MAN • **UUID**

Description • Type • Man. • Format • X-Request-ID ID of the request, unique to the call, as determined by the initiating party.. • String • MAN • **UUID**

Type • Man. • Format • X-Request-ID ID of the request, unique to the call, as determined by the initiating party.. • String • MAN • **UUID**

Man. • Format • X-Request-ID ID of the request, unique to the call, as determined by the initiating party.. • String • MAN • **UUID**

Format • X-Request-ID ID of the request, unique to the call, as determined by the initiating party.. • String • MAN • **UUID**

• X-Request-ID ID of the request, unique to the call, as determined by the initiating party.. • String • MAN • **UUID**

X-Request-ID ID of the request, unique to the call, as

determined by the initiating party..
• String • MAN • **UUID**

ID of the request, unique to the call, as determined by the initiating party..
• String • MAN • **UUID**

String • MAN • **UUID**

MAN • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7 • • **Authorisation** • Bearer Token.

Obtained in a prior authentication on OAuth2..
• String • MAN • E.g.

• **Authorisation** • Bearer Token. Obtained in a prior authentication on OAuth2..
• String • MAN • E.g.

Authorisation • Bearer Token. Obtained in a prior authentication on OAuth2..
• String • MAN • E.g.

Bearer Token. Obtained in a prior authentication on OAuth2..
• String • MAN • E.g.

String • MAN • E.g.

MAN • E.g.

E.g.

Authorisation: Bearer
2YotnFZFEjr1zCsicMWpAA • • **Consent-ID**

• Identification of the consent resource
• String • MAN • ^.{1,36}\$

• **Consent-ID** • Identification of the consent resource
• String • MAN • ^.{1,36}\$

Consent-ID • Identification of the consent resource
• String • MAN • ^.{1,36}\$

Identification of the consent resource

• String • MAN • ^.{1,36}\$

String • MAN • ^.{1,36}\$

MAN • ^.{1,36}\$

^.{1,36}\$

E.g. Consent-ID: 7890-asdf-4321 • • **PSU-IP-**

Address • The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

• **PSU-IP-Address** • The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

PSU-IP-Address • The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

between PSU and TPP.

If not available, the TPP shall use the IP Address used by the TPP when submitting this request.

• String • COND • ^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$

String • COND • ^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$

COND • ^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$

^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$

E.g.

PSU-IP-Address: 192.168.16.5 • • **PSU-IP-Port** • The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available. • String • OPT • ^\\d{1,5}\$

• **PSU-IP-Port** • The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available.

• String • OPT • ^\\d{1,5}\$

PSU-IP-Port • The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available.

• String • OPT • ^\\d{1,5}\$

The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU

and TPP, if available. • String• OPT• ^\\d{1,5}\$

String• OPT• ^\\d{1,5}\$

OPT• ^\\d{1,5}\$

^\\d{1,5}\$

E.g. PSU-IP-Port: 443 • • **PSU-Accept** • The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available. • String• OPT• ^.{1,50}\$

• **PSU-Accept** • The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

• String• OPT• ^.{1,50}\$

PSU-Accept • The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

• String• OPT• ^.{1,50}\$

The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

• String• OPT• ^.{1,50}\$

String• OPT• ^.{1,50}\$

OPT• ^.{1,50}\$

^.{1,50}\$

E.g. PSU-Accept: application/json • • **PSU-Accept-Charset** • Accept charset header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

• **PSU-Accept-Charset** • Accept charset header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

PSU-Accept-Charset • Accept charset header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

Accept charset header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

String• OPT• ^.{1,50}\$

OPT• ^.{1,50}\$

^.{1,50}\$

E.g. PSU-Accept-Charset: utf-8 • • **PSU-Accept-Encoding** Accept encoding header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

• **PSU-Accept-Encoding** Accept encoding header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

PSU-Accept-Encoding Accept encoding header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

Accept encoding header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^.{1,50}\$

E.g. PSU-Accept-Encoding: gzip • • **PSU-Accept-Language** Accept language header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

• **PSU-Accept-Language** Accept language header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

PSU-Accept-Language Accept language header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

Accept language header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^.{1,50}\$

E.g. PSU-Accept-Language: es-ES • • **PSU-User-Agent** The forwarded Agent header field of the HTTP request between PSU and TPP, if available.

• String • OPT • E.g.

• **PSU-User-Agent** The forwarded Agent header field of the HTTP request between PSU and TPP, if available. • String • OPT • E.g.

PSU-User-Agent The forwarded Agent header field of the HTTP request between PSU and TPP, if available.

- String• OPT• E.g.

The forwarded Agent header field of the HTTP request between PSU and TPP, if available. • String• OPT• E.g.

String• OPT• E.g.

OPT• E.g.

E.g.

PSU-User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.5) Gecko/20091102 Firefox/3.5.5 (.NET CLR 3.5.30729)• • **PSU-Http-Method**• HTTP method used at the PSU – TPP interface, if available.

- **PSU-Http-Method**• HTTP method used at the PSU – TPP interface, if available.

PSU-Http-Method• HTTP method used at the PSU – TPP interface, if available.

HTTP method used at the PSU – TPP interface, if available.

Valid values are:

- GET
- POST
- PUT
- PATCH

DELETE

- • String• OPT• E.g. PSU-Http-Method: GET• • **PSU-Device-ID**• UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

String• OPT• E.g. PSU-Http-Method: GET• • **PSU-Device-ID**• UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

OPT• E.g. PSU-Http-Method: GET• • **PSU-Device-ID**• UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

E.g. PSU-Http-Method: GET• • **PSU-Device-ID**• UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

- **PSU-Device-ID**• UUID (Universally Unique Identifier)

for a device, which is used by the PSU, if available.

PSU-Device-ID • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

UUID identifies either a device or a device dependant application installation. In case of an installation identification this ID need to be unaltered until removal from device

• String • OPT • **UUID**

String • OPT • **UUID**

OPT • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

PSU-Device-ID: 5b3ab8e8-0fd5-43d2-946e-d75958b172e7 • **PSU-Geo-Location** • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String • OPT • **RFC 2426**

• **PSU-Geo-Location** • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String • OPT • **RFC 2426**

PSU-Geo-Location • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String • OPT • **RFC 2426**

The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available.

• String • OPT • **RFC 2426**

String • OPT • **RFC 2426**

OPT • **RFC 2426**

RFC 2426

^GEO:[\\d]*.[\\d]*[;][\\d]*.[\\d]*\$

E.g.

PSU-Geo-Location:

GEO:90.023856;25.345963 • • **Digest** • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available

• **Digest** • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available

Digest • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available

The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available

• String • MAN • ^.{1,100}\$

String • MAN • ^.{1,100}\$

MAN • ^.{1,100}\$

^.{1,100}\$

E.g. Digest: SHA-

256=NzdmZjA4YjY5M2M2NDYyMmVjOWFmMGNmYTZiNTU3MjVmNDI4NTRIMzJkYzE3ZmNmMDE3ZGFmMjhhNTc5OTU3OQ== • • **Signature** • Is contained if and only if

the "Signature" element is contained in the header of the request.

• **Signature** • Is contained if and only if the "Signature" element is contained in the header of the request.

Signature • Is contained if and only if the "Signature" element is contained in the header of the request.

Is contained if and only if the "Signature" element is contained in the header of the request.

See 6.1 Signature for more information.

• String • MAN • See annexes

String • MAN • See annexes

MAN • See annexes

See annexes

• • **TPP-Signature-Certificate** • A signature of the request by the TPP on application level.

• **TPP-Signature-Certificate** • A signature of the request by the TPP on application level.

TPP-Signature-Certificate • A signature of the request by the TPP on application level.

A signature of the request by the TPP on application level.

See 6.1 Signature for more information. • String • MAN • ^.{1,5000}\$

String • MAN • ^.{1,5000}\$

MAN • ^.{1,5000}\$

^.{1,5000}\$

E.g. TPP-Signature-Certificate:

MIIHgZCCBmugAwIBAgIIZzZvBQlt0UcwDQYJ.....KoZI
hvcNAQELBQAuSTELMAkGA1UEBhMCVVMxEzARBgNVBA

• •

•

Body

Data are not sent in the body in this request.

3.3.2.2 Response

Header

Field • Description • Type • Man. • Format • X-Request-ID ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

Description • Type • Man. • Format • X-Request-ID ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Type • Man. • Format • X-Request-ID ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Man. • Format • X-Request-ID ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Format • X-Request-ID ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

• **X-Request-ID** ID of the request, unique to the call, as determined by the initiating party.

- String • MAN • **UUID**

X-Request-ID ID of the request, unique to the call, as determined by the initiating party.

- String • MAN • **UUID**

ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

String • MAN • **UUID**

MAN • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7 • •

•

Body

Field • Description • Type • Mand. • Format • • account

nt Detailed information on the account

- AccountDetails • MAN • E.g. "account": {...} • • **psuMessage** • Text to show to the PSU • String • OPT • ^.{1,512}\$

Description • Type • Mand. • Format • • account Detailed information on the account

- AccountDetails • MAN • E.g. "account": {...} • • **psuMessage** • Text to show to the PSU • String • OPT • ^.{1,512}\$

Type • Mand. • Format • • account Detailed information on the account • AccountDetails • MAN • E.g. "account": {...} • • **psuMessage** • Text to show to the PSU • String • OPT • ^.{1,512}\$

Mand. • Format • • account Detailed information on the account • AccountDetails • MAN • E.g. "account": {...} • • **psuMessage** • Text to show to the PSU • String • OPT • ^.{1,512}\$

Format • • account Detailed information on the account • AccountDetails • MAN • E.g. "account": {...} • • **psuMessage** • Text to show to the

PSU• String• OPT• ^.{1,512}\$

- **account**• Detailed information on the account
- AccountDetails• MAN• E.g. "account":
{...}• • **psuMessage**• Text to show to the
PSU• String• OPT• ^.{1,512}\$

account• Detailed information on the account

- AccountDetails• MAN• E.g. "account":
{...}• • **psuMessage**• Text to show to the
PSU• String• OPT• ^.{1,512}\$

Detailed information on the account

- AccountDetails• MAN• E.g. "account":
{...}• • **psuMessage**• Text to show to the
PSU• String• OPT• ^.{1,512}\$

AccountDetails• MAN• E.g. "account":
{...}• • **psuMessage**• Text to show to the
PSU• String• OPT• ^.{1,512}\$

MAN• E.g. "account": {...}• • **psuMessage**• Text to
show to the PSU• String• OPT• ^.{1,512}\$

E.g. "account": {...}• • **psuMessage**• Text to show to
the PSU• String• OPT• ^.{1,512}\$

- **psuMessage**• Text to show to the
PSU• String• OPT• ^.{1,512}\$

psuMessage• Text to show to the
PSU• String• OPT• ^.{1,512}\$

Text to show to the PSU• String• OPT• ^.{1,512}\$

String• OPT• ^.{1,512}\$

OPT• ^.{1,512}\$

^{1,512}\$

E.g. "psuMessage": "Information for
PSU"• • **tppMessages**• Message for the
TPP• List<TppMessage>• OPT• E.g. "tppMessages":
[...]

- **tppMessages**• Message for the
TPP• List<TppMessage>• OPT• E.g. "tppMessages":
[...]

tppMessages• Message for the
TPP• List<TppMessage>• OPT• E.g. "tppMessages":
[...]

Message for the TPP • List<TppMessage> • OPT • E.g.
"tppMessages": [...]

List<TppMessage> • OPT • E.g. "tppMessages": [...]

OPT • E.g. "tppMessages": [...]

E.g. "tppMessages": [...]

•

3.3.2.3 Examples

Example of request

GET <https://www.hub.com/aspsp-name/v1/accounts/3dc3d5b3-7023-4848-9853-f5400a64e80f>

Content-Encoding: gzip

Content-Type: application/json

X-Request-ID: 96201400-6ff9-11e8-adc0-fa7ae01bbebc

Authorization: Bearer 2YotnFZFEjrlzCsicMWpAA

Consent-ID: 7890-asdf-4321

PSU-IP-Address: 192.168.8.16

PSU-IP-Port: 443

PSU-Accept: application/json

PSU-Accept-Charset: utf-8

PSU-Accept-Encoding: gzip

PSU-Accept-Language: es-ES

PSU-User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:54.0) Gecko/20100101 Firefox/54.0

PSU-Http-Method: GET

PSU-Device-ID: f8b3fed3-6fe3-11e8-adc0-fa7ae01bbebc

PSU-GEO-Location: GEO:12.526347;54.649862

Date: Sun, 26 Sep 2017 15:02:48 GMT

Example when the account only has one currency

HTTP/1.1 200 OK

X-Request-ID: 96201400-6ff9-11e8-adc0-fa7ae01bbebc

Date: Sun, 26 Sep 2017 15:02:50 GMT

Content-Type: application/json

```
{
  "account": {
    "resourceId": "3dc3d5b3-7023-4848-9853-f5400a64e80f",
    "iban": "ES1111111111111111111111",
    "currency": "EUR",
    "product": "Girokonto",
    "cashAccountType": "CACC",
    "name": "Main Account",
    "_links": {
      "balances": {
        "href": "/v1/accounts/3dc3d5b3-7023-4848-9853-f5400a64e80f/balances"
      },
      "transactions": {
        "href": "/v1/accounts/3dc3d5b3-7023-4848-9853-f5400a64e80f/transactions"
      }
    }
  }
}
```

Example of multi-currency account response

```
HTTP/1.1 200 OK
X-Request-ID: 96201400-6ff9-11e8-adc0-fa7ae01bbebc
Date: Sun, 26 Sep 2017 15:02:50 GMT
Content-Type: application/json
```

```
{
  "account": {
    "resourceId": "3dc3d5b3-7023-4848-9853-f5400a64e81g",
    "iban": "ES2222222222222222222222",
    "currency": "XXX",
    "product": "Multicurrency Account",
    "cashAccountType": "CACC",
  }
}
```

```

    "name": "Aggregation Account",
    "_links": {
      "balances": {
        "href":
          "/v1/accounts/3dc3d5b3-7023-4848-
          9853-f5400a64e81g/balances"
      },
      "transactions": {
        "href":
          "/v1/accounts/3dc3d5b3-7023-4848-
          9853-f5400a64e81g/transactions"
      }
    }
  }
}
}
}

```

3.3.3 Reading balances

This service allows balances of an account determined by its identifier to be obtained.

As a requirement, it is assumed that the PSU has given its consent for this access and it has been stored by the ASPSP.

Operation of the service according to the type of access indicated in the consent:

Type of access • Description •

- availableAccounts • This type of access does not allow consumption of this service.
- availableAccountsWithBalances • This type of access does not allow consumption of this service.
- account • This type of access does not allow consumption of this service.
- balances • If the consent associated with the request has this type of access, the account balances may be queried.
- transactions • This type of access does not allow consumption of this service.
- allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

Description •

- availableAccounts • This type of access does not allow consumption of this service.
- availableAccountsWithBalances • This type of access does not allow consumption of this

service. • • account • This type of access does not allow consumption of this service. • • balances • If the consent associated with the request has this type of access, the account balances may be queried. • • transactions • This type of access does not allow consumption of this service. • • allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

• availableAccounts • This type of access does not allow consumption of this service. • • availableAccountsWithBalances • This type of access does not allow consumption of this service. • • account • This type of access does not allow consumption of this service. • • balances • If the consent associated with the request has this type of access, the account balances may be queried. • • transactions • This type of access does not allow consumption of this service. • • allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

availableAccounts • This type of access does not allow consumption of this service. • • availableAccountsWithBalances • This type of access does not allow consumption of this service. • • account • This type of access does not allow consumption of this service. • • balances • If the consent associated with the request has this type of access, the account balances may be queried. • • transactions • This type of access does not allow consumption of this service. • • allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

This type of access does not allow consumption of this service. • • availableAccountsWithBalances • This type of access does not allow consumption of this service. • • account • This type of access does not allow consumption of this service. • • balances • If the consent associated with the request has this type of access, the account balances may be queried. • • transactions • This type of access does not allow consumption of this service. • • allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

• availableAccountsWithBalances • This type of access does not allow consumption of this service. • • account • This type of access does not allow consumption of this service. • • balances • If the consent associated with the request has this type of access, the account balances may be queried. • • transactions • This type of access does not allow consumption of this service. • • allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

availableAccountsWithBalances• This type of access does not allow consumption of this service. • • account• This type of access does not allow consumption of this service. • • balances• If the consent associated with the request has this type of access, the account balances may be queried. • • transactions• This type of access does not allow consumption of this service. • • allPsd2• If the consent associated with the request has this type of access, the account balances may be queried.

This type of access does not allow consumption of this service. • • account• This type of access does not allow consumption of this service. • • balances• If the consent associated with the request has this type of access, the account balances may be queried. • • transactions• This type of access does not allow consumption of this service. • • allPsd2• If the consent associated with the request has this type of access, the account balances may be queried.

• account• This type of access does not allow consumption of this service. • • balances• If the consent associated with the request has this type of access, the account balances may be queried. • • transactions• This type of access does not allow consumption of this service. • • allPsd2• If the consent associated with the request has this type of access, the account balances may be queried.

account• This type of access does not allow consumption of this service. • • balances• If the consent associated with the request has this type of access, the account balances may be queried. • • transactions• This type of access does not allow consumption of this service. • • allPsd2• If the consent associated with the request has this type of access, the account balances may be queried.

This type of access does not allow consumption of this service. • • balances• If the consent associated with the request has this type of access, the account balances may be queried. • • transactions• This type of access does not allow consumption of this service. • • allPsd2• If the consent associated with the request has this type of access, the account balances may be queried.

• balances• If the consent associated with the request has this type of access, the account balances may be queried. • • transactions• This type of access does not allow consumption of this service. • • allPsd2• If the consent associated with the request has this type of access, the account balances may be queried.

balances• If the consent associated with the request has this type of access, the account balances may be queried. • • transactions• This type of access does not allow

consumption of this service. • • allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

If the consent associated with the request has this type of access, the account balances may be queried. • • transactions • This type of access does not allow consumption of this service. • • allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

• transactions • This type of access does not allow consumption of this service. • • allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

transactions • This type of access does not allow consumption of this service. • • allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

This type of access does not allow consumption of this service. • • allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

• allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

If the consent associated with the request has this type of access, the account balances may be queried.

Note: allPsd2 grants the three types of access. • •

•

3.3.3.1 Request

Endpoint

GET {provider}/{aspsp}/v1/accounts/{account-id}/balances

Path

Field • Description • Type • Man. • Format • • provider • URL of the HUB where the service is published • String • MAN • E.g. www.hub.com • • **aspsp •** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **account-id •** Identifier of the account that will be

used in the data reading.

Description • **Type** • **Man.** • **Format** • **provider** • URL of the HUB where the service is published • String • MAN • E.g. www.hub.com • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • **account-id** • Identifier of the account that will be used in the data reading.

Type • **Man.** • **Format** • **provider** • URL of the HUB where the service is published • String • MAN • E.g. www.hub.com • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • **account-id** • Identifier of the account that will be used in the data reading.

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• **provider** • URL of the HUB where the service is published • String • MAN • E.g. www.hub.com • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • **account-id** • Identifier of the account that will be used in the data reading.

provider • URL of the HUB where the service is published • String • MAN • E.g. www.hub.com • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • **account-id** • Identifier of the account that will be used in the data reading.

URL of the HUB where the service is published • String • MAN • E.g. www.hub.com • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • **account-id** • Identifier of the account that will be used in the data reading.

String • MAN • E.g. www.hub.com • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • **account-id** • Identifier of the account that will be used in the data reading.

MAN• E.g. www.hub.com• • **aspsp**• Name of the ASPSP to which the request is made. • String• MAN• E.g. aspsp-name• • **account-id**• Identifier of the account that will be used in the data reading.

E.g. www.hub.com• • **aspsp**• Name of the ASPSP to which the request is made. • String• MAN• E.g. aspsp-name• • **account-id**• Identifier of the account that will be used in the data reading.

• **aspsp**• Name of the ASPSP to which the request is made. • String• MAN• E.g. aspsp-name• • **account-id**• Identifier of the account that will be used in the data reading.

aspsp• Name of the ASPSP to which the request is made. • String• MAN• E.g. aspsp-name• • **account-id**• Identifier of the account that will be used in the data reading.

Name of the ASPSP to which the request is made. • String• MAN• E.g. aspsp-name• • **account-id**• Identifier of the account that will be used in the data reading.

String• MAN• E.g. aspsp-name• • **account-id**• Identifier of the account that will be used in the data reading.

MAN• E.g. aspsp-name• • **account-id**• Identifier of the account that will be used in the data reading.

E.g. aspsp-name• • **account-id**• Identifier of the account that will be used in the data reading.

• **account-id**• Identifier of the account that will be used in the data reading.

account-id• Identifier of the account that will be used in the data reading.

Identifier of the account that will be used in the data reading.

Obtained previously in the reading of the account list.

Must be valid at least while the consent lasts.

This id may be tokenised. • String• MAN• $\wedge.\{1,100\}\$$

String• MAN• $\wedge.\{1,100\}\$$

MAN• $\wedge.\{1,100\}\$$

$\wedge.\{1,100\}\$$

E.g. account-id=a1q5w• •

•

Query parameters

No additional fields are specified.

Header

Field • **Description** • **Type** • **Man.** • **Format** • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party.. • String • MAN • **UUID**

Description • **Type** • **Man.** • **Format** • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party.. • String • MAN • **UUID**

Type • **Man.** • **Format** • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party.. • String • MAN • **UUID**

Man. • **Format** • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party.. • String • MAN • **UUID**

Format • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party.. • String • MAN • **UUID**

• **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party.. • String • MAN • **UUID**

X-Request-ID • ID of the request, unique to the call, as determined by the initiating party.. • String • MAN • **UUID**

ID of the request, unique to the call, as determined by the initiating party.. • String • MAN • **UUID**

String • MAN • **UUID**

MAN • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7 • **Authorisation** • Bearer Token. Obtained in a prior authentication on OAuth2.

• String • MAN • E.g.

• **Authorisation**• Bearer Token. Obtained in a prior authentication on OAuth2. • String• MAN• E.g.

Authorisation• Bearer Token. Obtained in a prior authentication on OAuth2. • String• MAN• E.g.

Bearer Token. Obtained in a prior authentication on OAuth2. • String• MAN• E.g.

String• MAN• E.g.

MAN• E.g.

E.g.

Authorisation: Bearer

2YotnFZFEjr1zCsicMWpAA• • **Consent-ID**

• Identification of the consent resource

• String• MAN• ^.{1,36}\$

• **Consent-ID** • Identification of the consent resource

• String• MAN• ^.{1,36}\$

Consent-ID • Identification of the consent resource

• String• MAN• ^.{1,36}\$

Identification of the consent resource

• String• MAN• ^.{1,36}\$

String• MAN• ^.{1,36}\$

MAN• ^.{1,36}\$

^.{1,36}\$

E.g. Consent-ID: 7890-asdf-4321• • **PSU-IP-**

Address• The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

• **PSU-IP-Address**• The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

PSU-IP-Address• The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

between PSU and TPP.

If not available, the TPP shall use the IP Address used by the TPP when submitting this request.

• String• COND• ^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.\$
String• COND• ^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.\$
COND• ^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.\$
^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.\$

E.g.

PSU-IP-Address: 192.168.16.5 • • **PSU-IP-Port** The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available. • String• OPT• ^\\d{1,5}\$

• **PSU-IP-Port** The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available.
• String• OPT• ^\\d{1,5}\$

PSU-IP-Port The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available.
• String• OPT• ^\\d{1,5}\$

The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available. • String• OPT• ^\\d{1,5}\$

String• OPT• ^\\d{1,5}\$

OPT• ^\\d{1,5}\$

^\\d{1,5}\$

E.g. PSU-IP-Port: 443 • • **PSU-Accept** The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available. • String• OPT• ^.{1,50}\$

• **PSU-Accept** The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.
• String• OPT• ^.{1,50}\$

PSU-Accept The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.
• String• OPT• ^.{1,50}\$

The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

• String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept: application/json • • **PSU-Accept-Charset** • Accept charset header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

• **PSU-Accept-Charset** • Accept charset header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

PSU-Accept-Charset • Accept charset header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

Accept charset header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept-Charset: utf-8 • • **PSU-Accept-Encoding** • Accept encoding header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

• **PSU-Accept-Encoding** • Accept encoding header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

PSU-Accept-Encoding • Accept encoding header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

Accept encoding header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept-Encoding: gzip • • **PSU-Accept-Language** • Accept language header of the HTTP

request between PSU and the
TPP. • String • OPT • ^.{1,50}\$

• **PSU-Accept-Language** • Accept language header of
the HTTP request between PSU and the
TPP. • String • OPT • ^.{1,50}\$

PSU-Accept-Language • Accept language header of
the HTTP request between PSU and the
TPP. • String • OPT • ^.{1,50}\$

Accept language header of the HTTP request between
PSU and the TPP. • String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^.{1,50}\$

E.g. PSU-Accept-Language: es-ES • • **PSU-User-Agent** • The forwarded Agent header field of the HTTP
request between PSU and TPP, if available.

• String • OPT • E.g.

• **PSU-User-Agent** • The forwarded Agent header field
of the HTTP request between PSU and TPP, if available.

• String • OPT • E.g.

PSU-User-Agent • The forwarded Agent header field of
the HTTP request between PSU and TPP, if available.

• String • OPT • E.g.

The forwarded Agent header field of the HTTP request
between PSU and TPP, if available. • String • OPT • E.g.

String • OPT • E.g.

OPT • E.g.

E.g.

PSU-User-Agent: Mozilla/5.0 (Windows; U; Windows NT
6.1; en-US; rv:1.9.1.5) Gecko/20091102 Firefox/3.5.5
(.NET CLR 3.5.30729) • • **PSU-Http-Method** • HTTP
method used at the PSU – TPP interface, if available.

• **PSU-Http-Method** • HTTP method used at the PSU –
TPP interface, if available.

PSU-Http-Method • HTTP method used at the PSU –
TPP interface, if available.

HTTP method used at the PSU – TPP interface, if

available.

Valid values are:

- GET
- POST
- PUT
- PATCH

DELETE

- String • OPT • E.g. PSU-Http-Method: GET • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

String • OPT • E.g. PSU-Http-Method: GET • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

OPT • E.g. PSU-Http-Method: GET • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

E.g. PSU-Http-Method: GET • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

• **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

PSU-Device-ID • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

UUID identifies either a device or a device dependant application installation. In case of an installation identification this ID need to be unaltered until removal from device. UUID

- String • OPT • **UUID**

String • OPT • **UUID**

OPT • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-

fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

PSU-Device-ID: 5b3ab8e8-0fd5-43d2-946e-d75958b172e7 • **PSU-Geo-Location** • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String • OPT • **RFC 2426**

• **PSU-Geo-Location** • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String • OPT • **RFC 2426**

PSU-Geo-Location • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String • OPT • **RFC 2426**

The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available.

• String • OPT • **RFC 2426**

String • OPT • **RFC 2426**

OPT • **RFC 2426**

RFC 2426

^GEO:[\\d]*.[\\d]*[;][\\d]*.[\\d]*\$

E.g.

PSU-Geo-Location:

GEO:90.023856;25.345963 • **Digest** • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. It

• **Digest** • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. It

Digest • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. It

The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. It

• String • MAN • ^.{1,100}\$

String • MAN • ^.{1,100}\$

MAN • ^.{1,100}\$

^.{1,100}\$

E.g. Digest: SHA-

256=NzdmZjA4YjY5M2M2NDYyMmVjOWFmMGNmYTZiN
TU3MjVmNDI4NTRIMzJkYzE3ZmNmMDE3ZGFmMjhhNTc
5OTU3OQ== • • **Signature** • Is contained if and only if
the "Signature" element is contained in the header of
the request.

• **Signature** • Is contained if and only if the "Signature"
element is contained in the header of the request.

Signature • Is contained if and only if the "Signature"
element is contained in the header of the request.

Is contained if and only if the "Signature" element is
contained in the header of the request.

See 6.1 Signature for more information.

• String • MAN • See annexes

String • MAN • See annexes

MAN • See annexes

See annexes

• • **TPP-Signature-Certificate** • A signature of the
request by the TPP on application level.

• **TPP-Signature-Certificate** • A signature of the
request by the TPP on application level.

TPP-Signature-Certificate • A signature of the request
by the TPP on application level.

A signature of the request by the TPP on application
level.

See 6.1 Signature for more
information. • String • MAN • ^.{1,5000}\$

String • MAN • ^.{1,5000}\$

MAN • ^.{1,5000}\$

^.{1,5000}\$

E.g. TPP-Signature-Certificate:

MIIHgzCCBmugAwIBAgIIZzZvBQlt0UcwDQYJ.....KoZI
hvcNAQELBQAuSTELMAkGA1UEBhMCMVVMxEzARBgNVBA

• •

•

Body

The data are not sent in the body in this request.

3.3.3.2 Response

Header

Field • **Description** • **Type** • **Man.** • **Format** • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. Unique transaction identifier assigned by the TPP. • String • MAN • **UUID**

Description • **Type** • **Man.** • **Format** • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. Unique transaction identifier assigned by the TPP. • String • MAN • **UUID**

Type • **Man.** • **Format** • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. Unique transaction identifier assigned by the TPP. • String • MAN • **UUID**

Man. • **Format** • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. Unique transaction identifier assigned by the TPP. • String • MAN • **UUID**

Format • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. Unique transaction identifier assigned by the TPP. • String • MAN • **UUID**

• **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. Unique transaction identifier assigned by the TPP. • String • MAN • **UUID**

X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. Unique transaction identifier assigned by the TPP. • String • MAN • **UUID**

ID of the request, unique to the call, as determined by the initiating party. Unique transaction identifier assigned by the TPP. • String • MAN • **UUID**

String • MAN • **UUID**

MAN • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7 • •

•

Body

Field • Description • Type • Mand. • Format • • account
nt • Identifier of the account that is being queried.addressed account.

Description • Type • Mand. • Format • • account Identifier of the account that is being queried.addressed account.

Type • Mand. • Format • • account Identifier of the account that is being queried.addressed account.

Mand. • Format • • account Identifier of the account that is being queried.addressed account.

Format • • account Identifier of the account that is being queried.addressed account.

• **account** Identifier of the account that is being queried.addressed account.

account Identifier of the account that is being queried.addressed account.

Identifier of the account that is being queried.addressed account.

Remark for Future: It is recommended to use this data element. The condition might change to "mandatory" in a next version of the specification.

• **AccountReference** • OPT • E.g. "account":
{...} • • **balances** • A list of balances regarding this account, e.g. the current balance, the last booked balance. • List<Balance> • MAN • E.g. "balances":
{...} • • **psuMessage** • Text to show to the PSU. • String • OPT • ^.{1,512}\$

AccountReference • OPT • E.g. "account":
{...} • • **balances** • A list of balances regarding this account, e.g. the current balance, the last booked balance. • List<Balance> • MAN • E.g. "balances":

{...} • • **psuMessage** • Text to show to the PSU. • String • OPT • ^.{1,512}\$

OPT • E.g. "account": {...} • • **balances** • A list of balances regarding this account, e.g. the current balance, the last booked

balance. • List<Balance> • MAN • E.g. "balances": {...} • • **psuMessage** • Text to show to the PSU. • String • OPT • ^.{1,512}\$

E.g. "account": {...} • • **balances** • A list of balances regarding this account, e.g. the current balance, the last booked balance. • List<Balance> • MAN • E.g.

"balances": {...} • • **psuMessage** • Text to show to the PSU. • String • OPT • ^.{1,512}\$

• **balances** • A list of balances regarding this account, e.g. the current balance, the last booked balance. • List<Balance> • MAN • E.g. "balances":

{...} • • **psuMessage** • Text to show to the PSU. • String • OPT • ^.{1,512}\$

balances • A list of balances regarding this account, e.g. the current balance, the last booked balance. • List<Balance> • MAN • E.g. "balances":

{...} • • **psuMessage** • Text to show to the PSU. • String • OPT • ^.{1,512}\$

A list of balances regarding this account, e.g. the current balance, the last booked

balance. • List<Balance> • MAN • E.g. "balances": {...} • • **psuMessage** • Text to show to the PSU. • String • OPT • ^.{1,512}\$

List<Balance> • MAN • E.g. "balances":

{...} • • **psuMessage** • Text to show to the PSU. • String • OPT • ^.{1,512}\$

MAN • E.g. "balances": {...} • • **psuMessage** • Text to show to the PSU. • String • OPT • ^.{1,512}\$

E.g. "balances": {...} • • **psuMessage** • Text to show to the PSU. • String • OPT • ^.{1,512}\$

• **psuMessage** • Text to show to the PSU. • String • OPT • ^.{1,512}\$

psuMessage • Text to show to the PSU. • String • OPT • ^.{1,512}\$

Text to show to the PSU. • String • OPT • $\wedge.\{1,512\}\$$

String • OPT • $\wedge.\{1,512\}\$$

OPT • $\wedge.\{1,512\}\$$

$\wedge.\{1,512\}\$$

E.g. "psuMessage": "Information for PSU" • • **tppMessages** • Message for the TPP. • List<TppMessage> • OPT • E.g. "tppMessages": [...] • •

• **tppMessages** • Message for the TPP. • List<TppMessage> • OPT • E.g. "tppMessages": [...] • •

tppMessages • Message for the TPP. • List<TppMessage> • OPT • E.g. "tppMessages": [...] • •

Message for the TPP. • List<TppMessage> • OPT • E.g. "tppMessages": [...] • •

List<TppMessage> • OPT • E.g. "tppMessages": [...] • •

OPT • E.g. "tppMessages": [...] • •

E.g. "tppMessages": [...] • •

•

3.3.3.3 Examples

Example of request

GET <https://www.hub.com/aspsp-name/accounts/3dc3d5b3-7023-4848-9853-f5400a64e81g/balances>

Accept: application/json

X-Request-ID: 96201400-6ff9-11e8-adc0-fa7ae01bbebc

Authorization: Bearer 2YotnFZFEjrlzCsicMWpAA

Consent-ID: 7890-asdf-4321

PSU-IP-Address: 192.168.8.16

PSU-IP-Port: 443

PSU-Accept: application/json

PSU-Accept-Charset: utf-8

PSU-Accept-Encoding: gzip

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```
PSU-Accept-Language: es-ES
PSU-User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:54.0) Gecko/20100101 Firefox/54.0
PSU-Http-Method: GET
PSU-Device-ID: f8b3feda-6fe3-11e8-adc0-fa7ae01bbebc
PSU-GEO-Location: GEO:12.526347;54.649862
Date: Sun, 26 Sep 2017 15:02:48 GMT
```

Example of response

```
HTTP/1.1 200 Ok
X-Request-ID: 96201400-6ff9-11e8-adc0-fa7ae01bbebc
Date: Sun, 26 Sep 2017 15:02:50 GMT
Content-Type: application/json
{
  "account": {
    "iban": "ES1111111111111111111111"
  },
  "balances": [
    {
      "balanceType": "closingBooked",
      "balanceAmount": {
        "currency": "EUR",
        "amount": "500.00"
      },
      "referenceDate": "2017-10-25"
    },
    {
      "balanceType": "expected",
      "balanceAmount": {
        "currency": "EUR",
        "amount": "900.00"
      },
      "lastChangeDateTime": "2017-10-25T15:30:35.035Z"
    }
  ]
}
```

1

}

3.3.4 Reading of transactions

This service allows transactions to be obtained of an account determined by its identifier.

As a requirement, it is assumed that the PSU has given its consent for this access and it has been stored by the ASPSP.

Operation of the service according to the type of access indicated in the consent:

Type of access

- **availableAccounts**• This type of access does not allow consumption of this service.
- **availableAccountsWithBalances**• This type of access does not allow consumption of this service.
- **account**• This type of access does not allow consumption of this service.
- **balances**• If the consent associated with the request has this type of access, the balances may be requested if the ASPSP supports it.
- **transactions**• If the consent associated with the request has this type of access, the account activity may be queried.
- **allPsd2**• If the consent associated with the request has this type of access, the account balances may be queried.

Description

- **availableAccounts**• This type of access does not allow consumption of this service.
- **availableAccountsWithBalances**• This type of access does not allow consumption of this service.
- **account**• This type of access does not allow consumption of this service.
- **balances**• If the consent associated with the request has this type of access, the balances may be requested if the ASPSP supports it.
- **transactions**• If the consent associated with the request has this type of access, the account activity may be queried.
- **allPsd2**• If the consent associated with the request has this type of access, the account balances may be queried.

- **availableAccounts**• This type of access does not allow consumption of this service.
- **availableAccountsWithBalances**• This type of access does not allow consumption of this service.
- **account**• This type of access does not allow

consumption of this service. • • balances • If the consent associated with the request has this type of access, the balances may be requested if the ASPSP supports it. • • transactions • If the consent associated with the request has this type of access, the account activity may be queried. • • allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

availableAccounts • This type of access does not allow consumption of this service. • • availableAccountsWithBalances • This type of access does not allow consumption of this service. • • account • This type of access does not allow consumption of this service. • • balances • If the consent associated with the request has this type of access, the balances may be requested if the ASPSP supports it. • • transactions • If the consent associated with the request has this type of access, the account activity may be queried. • • allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

This type of access does not allow consumption of this service. • • availableAccountsWithBalances • This type of access does not allow consumption of this service. • • account • This type of access does not allow consumption of this service. • • balances • If the consent associated with the request has this type of access, the balances may be requested if the ASPSP supports it. • • transactions • If the consent associated with the request has this type of access, the account activity may be queried. • • allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

• availableAccountsWithBalances • This type of access does not allow consumption of this service. • • account • This type of access does not allow consumption of this service. • • balances • If the consent associated with the request has this type of access, the balances may be requested if the ASPSP supports it. • • transactions • If the consent associated with the request has this type of access, the account activity may be queried. • • allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

availableAccountsWithBalances • This type of access does not allow consumption of this service. • • account • This type of access does not allow consumption of this service. • • balances • If the consent associated with the request has this type of access, the balances may be

requested if the ASPSP supports it. • • transactions • If the consent associated with the request has this type of access, the account activity may be queried. • • allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

This type of access does not allow consumption of this service. • • account • This type of access does not allow consumption of this service. • • balances • If the consent associated with the request has this type of access, the balances may be requested if the ASPSP supports it. • • transactions • If the consent associated with the request has this type of access, the account activity may be queried. • • allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

• account • This type of access does not allow consumption of this service. • • balances • If the consent associated with the request has this type of access, the balances may be requested if the ASPSP supports it. • • transactions • If the consent associated with the request has this type of access, the account activity may be queried. • • allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

account • This type of access does not allow consumption of this service. • • balances • If the consent associated with the request has this type of access, the balances may be requested if the ASPSP supports it. • • transactions • If the consent associated with the request has this type of access, the account activity may be queried. • • allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

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• balances • If the consent associated with the request has this type of access, the balances may be requested if the ASPSP supports it. • • transactions • If the consent associated with the request has this type of access, the account activity may be queried. • • allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

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type of access, the balances may be requested if the ASPSP supports it. • • transactions • If the consent associated with the request has this type of access, the account activity may be queried. • • allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

If the consent associated with the request has this type of access, the balances may be requested if the ASPSP supports it. • • transactions • If the consent associated with the request has this type of access, the account activity may be queried. • • allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

• transactions • If the consent associated with the request has this type of access, the account activity may be queried. • • allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

transactions • If the consent associated with the request has this type of access, the account activity may be queried. • • allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

If the consent associated with the request has this type of access, the account activity may be queried. • • allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

• allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

allPsd2 • If the consent associated with the request has this type of access, the account balances may be queried.

If the consent associated with the request has this type of access, the account balances may be queried.

Note: allPsd2 grants the three types of access. • •

•

3.3.4.1 Request

Endpoint

GET {provider}/{aspsp}/v1/accounts/{account-id}/transactions{query-parameters }

Path

Ref **RS.SSECT.OTR.0000**

15/09/2021

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Field• Description• Type• Man• Format• • provider• UR

L of the HUB where the service is

published• String• MAN• E.g.

www.hub.com• • **aspsp**• Name of the ASPSP to which the request is made.• String• MAN• E.g. aspsp-

name• • **account-id**• Identifier of the account that will be used in the data reading.

Description• Type• Man• Format• • provider• URL of

the HUB where the service is published• String• MAN• E.g.

www.hub.com• • **aspsp**• Name of the ASPSP to which the request is made.• String• MAN• E.g. aspsp-

name• • **account-id**• Identifier of the account that will be used in the data reading.

Type• Man• Format• • provider• URL of the HUB where the service is published• String• MAN• E.g.

www.hub.com• • **aspsp**• Name of the ASPSP to which the request is made.• String• MAN• E.g. aspsp-

name• • **account-id**• Identifier of the account that will be used in the data reading.

Man• Format• • provider• URL of the HUB where the service is published• String• MAN• E.g.

www.hub.com• • **aspsp**• Name of the ASPSP to which the request is made.• String• MAN• E.g. aspsp-

name• • **account-id**• Identifier of the account that will be used in the data reading.

Format• • provider• URL of the HUB where the service is published• String• MAN• E.g.

www.hub.com• • **aspsp**• Name of the ASPSP to which the request is made.• String• MAN• E.g. aspsp-

name• • **account-id**• Identifier of the account that will be used in the data reading.

• provider• URL of the HUB where the service is published• String• MAN• E.g.

www.hub.com• • **aspsp**• Name of the ASPSP to which the request is made.• String• MAN• E.g. aspsp-

name• • **account-id**• Identifier of the account that will be used in the data reading.

provider• URL of the HUB where the service is published• String• MAN• E.g.

www.hub.com• • **aspsp**• Name of the ASPSP to which the request is made.• String• MAN• E.g. aspsp-

name• • **account-id**• Identifier of the account that will be used in the data reading.

URL of the HUB where the service is

published• String• MAN• E.g.

www.hub.com• • **aspsp**• Name of the ASPSP to which the request is made.• String• MAN• E.g. aspsp-

name• • **account-id** Identifier of the account that will be used in the data reading.

String• MAN• E.g. www.hub.com• • **aspsp** Name of the ASPSP to which the request is made. • String• MAN• E.g. aspsp-name• • **account-id** Identifier of the account that will be used in the data reading.

MAN• E.g. www.hub.com• • **aspsp** Name of the ASPSP to which the request is made. • String• MAN• E.g. aspsp-name• • **account-id** Identifier of the account that will be used in the data reading.

E.g. www.hub.com• • **aspsp** Name of the ASPSP to which the request is made. • String• MAN• E.g. aspsp-name• • **account-id** Identifier of the account that will be used in the data reading.

• **aspsp** Name of the ASPSP to which the request is made. • String• MAN• E.g. aspsp-name• • **account-id** Identifier of the account that will be used in the data reading.

aspsp Name of the ASPSP to which the request is made. • String• MAN• E.g. aspsp-name• • **account-id** Identifier of the account that will be used in the data reading.

Name of the ASPSP to which the request is made. • String• MAN• E.g. aspsp-name• • **account-id** Identifier of the account that will be used in the data reading.

String• MAN• E.g. aspsp-name• • **account-id** Identifier of the account that will be used in the data reading.

MAN• E.g. aspsp-name• • **account-id** Identifier of the account that will be used in the data reading.

E.g. aspsp-name• • **account-id** Identifier of the account that will be used in the data reading.

• **account-id** Identifier of the account that will be used in the data reading.

account-id Identifier of the account that will be used in the data reading.

Identifier of the account that will be used in the data reading.

Obtained previously in the reading of the account list.

Must be valid at least while the consent lasts.

This id may be tokenised. • String• MAN• ^.{1,100}\$

String• MAN• ^.{1,100}\$

MAN• ^.{1,100}\$

^{1,100}\$

E.g. account-id=a1q5w •

•

Query parameters

Field • **Description** • **Type** • **Man.** • **Format** • **dateFrom** • **S**
Start date of query. It is included if the "deltaList" is not included. • String • COND • **ISODate**

Description • **Type** • **Man.** • **Format** • **dateFrom** • **S**
Start date of query. It is included if the "deltaList" is not included. • String • COND • **ISODate**

Type • **Man.** • **Format** • **dateFrom** • **S**
Start date of query. It is included if the "deltaList" is not included. • String • COND • **ISODate**

Man. • **Format** • **dateFrom** • **S**
Start date of query. It is included if the "deltaList" is not included. • String • COND • **ISODate**

Format • **dateFrom** • **S**
Start date of query. It is included if the "deltaList" is not included. • String • COND • **ISODate**

• **dateFrom** • **S**
Start date of query. It is included if the "deltaList" is not included. • String • COND • **ISODate**

dateFrom • **S**
Start date of query. It is included if the "deltaList" is not included. • String • COND • **ISODate**

Start date of query. It is included if the "deltaList" is not included. • String • COND • **ISODate**

String • COND • **ISODate**

COND • **ISODate**

ISODate

E.g. dateFrom=2017-10-25 • **dateTo** • End date of query. Its default value is the current date, unless otherwise indicated. • String • OPT • **ISODate**

• **dateTo** • End date of query. Its default value is the current date, unless otherwise indicated. • String • OPT • **ISODate**

dateTo • End date of query. Its default value is the current date, unless otherwise indicated. • String • OPT • **ISODate**

End date of query. Its default value is the current date, unless otherwise indicated. • String • OPT • **ISODate**

String • OPT • **ISODate**

OPT • **ISODate**

ISODate

E.g. dateTo=2017-11-05 • **entryReferenceFrom** • If it is indicated, it will give us the results from the time of the call with entryReferenceFrom before that given. If it is contained, the dateFrom and dateTo attributes are

ignored. • String • OPT • E.g. entryReferenceFrom=1234-asdf-567 • • **bookingStatus** • Status of the returned transactions. The status codes permitted are "booked", "pending" and "both". Those mandatory for the ASPSPs are "booked". • String • MAN • E.g. bookingStatus=booked • • **deltaList** • Indicates that the AISP is in favour of obtaining all the transactions after the last access to the report for this PSU and account. • **entryReferenceFrom** • If it is indicated, it will give us the results from the time of the call with entryReferenceFrom before that given. If it is contained, the dateFrom and dateTo attributes are ignored. • String • OPT • E.g. entryReferenceFrom=1234-asdf-567 • • **bookingStatus** • Status of the returned transactions. The status codes permitted are "booked", "pending" and "both". Those mandatory for the ASPSPs are "booked". • String • MAN • E.g. bookingStatus=booked • • **deltaList** • Indicates that the AISP is in favour of obtaining all the transactions after the last access to the report for this PSU and account. **entryReferenceFrom** • If it is indicated, it will give us the results from the time of the call with entryReferenceFrom before that given. If it is contained, the dateFrom and dateTo attributes are ignored. • String • OPT • E.g. entryReferenceFrom=1234-asdf-567 • • **bookingStatus** • Status of the returned transactions. The status codes permitted are "booked", "pending" and "both". Those mandatory for the ASPSPs are "booked". • String • MAN • E.g. bookingStatus=booked • • **deltaList** • Indicates that the AISP is in favour of obtaining all the transactions after the last access to the report for this PSU and account. If it is indicated, it will give us the results from the time of the call with entryReferenceFrom before that given. If it is contained, the dateFrom and dateTo attributes are ignored. • String • OPT • E.g. entryReferenceFrom=1234-asdf-567 • • **bookingStatus** • Status of the returned transactions. The status codes permitted are "booked", "pending" and "both". Those mandatory for the ASPSPs are "booked". • String • MAN • E.g. bookingStatus=booked • • **deltaList** • Indicates that the AISP is in favour of obtaining all the transactions after the last access to the report for this PSU and account. String • OPT • E.g. entryReferenceFrom=1234-asdf-567 • • **bookingStatus** • Status of the returned transactions. The status codes permitted are "booked", "pending" and "both". Those mandatory for the ASPSPs are

"booked".• String• MAN• E.g.
bookingStatus=booked• • **deltaList**• Indicates that the AISP is in favour of obtaining all the transactions after the last access to the report for this PSU and account.
OPT• E.g. entryReferenceFrom=1234-asdf-567• • **bookingStatus**• Status of the returned transactions. The status codes permitted are "booked", "pending" and "both". Those mandatory for the ASPSPs are "booked".• String• MAN• E.g.
bookingStatus=booked• • **deltaList**• Indicates that the AISP is in favour of obtaining all the transactions after the last access to the report for this PSU and account.
E.g. entryReferenceFrom=1234-asdf-567• • **bookingStatus**• Status of the returned transactions. The status codes permitted are "booked", "pending" and "both". Those mandatory for the ASPSPs are "booked".• String• MAN• E.g.
bookingStatus=booked• • **deltaList**• Indicates that the AISP is in favour of obtaining all the transactions after the last access to the report for this PSU and account.
• **bookingStatus**• Status of the returned transactions. The status codes permitted are "booked", "pending" and "both". Those mandatory for the ASPSPs are "booked".• String• MAN• E.g.
bookingStatus=booked• • **deltaList**• Indicates that the AISP is in favour of obtaining all the transactions after the last access to the report for this PSU and account.
bookingStatus• Status of the returned transactions. The status codes permitted are "booked", "pending" and "both". Those mandatory for the ASPSPs are "booked".• String• MAN• E.g.
bookingStatus=booked• • **deltaList**• Indicates that the AISP is in favour of obtaining all the transactions after the last access to the report for this PSU and account.
Status of the returned transactions. The status codes permitted are "booked", "pending" and "both". Those mandatory for the ASPSPs are "booked".• String• MAN• E.g.
bookingStatus=booked• • **deltaList**• Indicates that the AISP is in favour of obtaining all the transactions after the last access to the report for this PSU and account.
String• MAN• E.g.
bookingStatus=booked• • **deltaList**• Indicates that the AISP is in favour of obtaining all the transactions after the last access to the report for this PSU and account.
MAN• E.g. bookingStatus=booked• • **deltaList**• Indicates that the AISP is in favour of obtaining all the

transactions after the last access to the report for this PSU and account.

E.g. bookingStatus=booked • • **deltaList** Indicates that the AISP is in favour of obtaining all the transactions after the last access to the report for this PSU and account.

• **deltaList** Indicates that the AISP is in favour of obtaining all the transactions after the last access to the report for this PSU and account.

deltaList Indicates that the AISP is in favour of obtaining all the transactions after the last access to the report for this PSU and account.

Indicates that the AISP is in favour of obtaining all the transactions after the last access to the report for this PSU and account.

This indicator could be rejected by the ASPSP if this function is not compatible. • Boolean • OPT • E.g.

deltaList=false • • **withBalance** If it is included, this function includes the balances.

Boolean • OPT • E.g. deltaList=false • • **withBalance** If it is included, this function includes the balances.

OPT • E.g. deltaList=false • • **withBalance** If it is included, this function includes the balances.

E.g. deltaList=false • • **withBalance** If it is included, this function includes the balances.

• **withBalance** If it is included, this function includes the balances.

withBalance If it is included, this function includes the balances.

If it is included, this function includes the balances.

This request will be rejected if access to balances does not include consent or the ASPSP does not support this parameter. • Boolean • OPT • E.g. true • •

Boolean • OPT • E.g. true • •

OPT • E.g. true • •

E.g. true • •

•

Header

Field • Description • Type • Man. • Format • • X-Request-ID ID of the request, unique to the call, as

determined by the initiating party.

• String • MAN • **UUID**

Description • Type • Man. • Format • • X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Type • Man. • Format • • X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Man. • Format • • X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Format • • X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

• **X-Request-ID •** ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

String • MAN • **UUID**

MAN • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7 • • **Authorisation •** Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

• **Authorisation •** Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

Authorisation • Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

Bearer Token. Obtained in a prior authentication on

OAuth2. • String • MAN • E.g.

String • MAN • E.g.

MAN • E.g.

E.g.

Authorisation: Bearer

2YotnFZFEjr1zCsicMWpAA • • **Consent-ID**

• Identification of the consent resource

• String • MAN • $\wedge.\{1,36\}$ \$

• **Consent-ID** • Identification of the consent resource

• String • MAN • $\wedge.\{1,36\}$ \$

Consent-ID • Identification of the consent resource

• String • MAN • $\wedge.\{1,36\}$ \$

Identification of the consent resource

• String • MAN • $\wedge.\{1,36\}$ \$

String • MAN • $\wedge.\{1,36\}$ \$

MAN • $\wedge.\{1,36\}$ \$

$\wedge.\{1,36\}$ \$

E.g. Consent-ID: 7890-asdf-4321 • • **Accept** • Response format supported. Supported values:

• **Accept** • Response format supported. Supported values:

Accept • Response format supported. Supported values:

Response format supported. Supported values:

application/json

• String • OPT • $\wedge.\{1,50\}$ \$

String • OPT • $\wedge.\{1,50\}$ \$

OPT • $\wedge.\{1,50\}$ \$

$\wedge.\{1,50\}$ \$

E.g. Accept: application/json • • **PSU-IP-Address** • The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

• **PSU-IP-Address** • The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

PSU-IP-Address • The forwarded IP Address header

field consists of the corresponding HTTP request IP Address field

The forwarded IP Address header field consists of the corresponding HTTP request IP Address field between PSU and TPP.

If not available, the TPP shall use the IP Address used by the TPP when submitting this request.

• String • COND • $^{[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}}\$$

String • COND • $^{[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}}\$$

COND • $^{[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}}\$$

$^{[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}.[0-9]\{1,3\}}\$$

E.g.

PSU-IP-Address: 192.168.16.5 • • **PSU-IP-Port** • The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available • String • OPT • $^{\\d\{1,5\}}\$$

• **PSU-IP-Port** • The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available • String • OPT • $^{\\d\{1,5\}}\$$

PSU-IP-Port • The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available • String • OPT • $^{\\d\{1,5\}}\$$

The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available • String • OPT • $^{\\d\{1,5\}}\$$

String • OPT • $^{\\d\{1,5\}}\$$

OPT • $^{\\d\{1,5\}}\$$

$^{\\d\{1,5\}}\$$

E.g. PSU-IP-Port: 443 • • **PSU-Accept** • The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available. • String • OPT • $^{.\{1,50\}}\$$

• **PSU-Accept** • The forwarded Accept header fields

consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

• String• OPT• ^.{1,50}\$

PSU-Accept• The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

• String• OPT• ^.{1,50}\$

The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

• String• OPT• ^.{1,50}\$

String• OPT• ^.{1,50}\$

OPT• ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept: application/json• • **PSU-Accept-Charset**• Accept charset header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

• **PSU-Accept-Charset**• Accept charset header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

PSU-Accept-Charset• Accept charset header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

Accept charset header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

String• OPT• ^.{1,50}\$

OPT• ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept-Charset: utf-8• • **PSU-Accept-Encoding**• Accept encoding header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

• **PSU-Accept-Encoding**• Accept encoding header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

PSU-Accept-Encoding• Accept encoding header of the HTTP request between PSU and the TPP. • String• OPT• ^.{1,50}\$

Accept encoding header of the HTTP request between

PSU and the TPP. • String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^.{1,50}\$

E.g. PSU-Accept-Encoding: gzip • • **PSU-Accept-Language** • Accept language header of the HTTP request between PSU and the

TPP. • String • OPT • ^.{1,50}\$

• **PSU-Accept-Language** • Accept language header of the HTTP request between PSU and the

TPP. • String • OPT • ^.{1,50}\$

PSU-Accept-Language • Accept language header of the HTTP request between PSU and the

TPP. • String • OPT • ^.{1,50}\$

Accept language header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^.{1,50}\$

E.g. PSU-Accept-Language: es-ES • • **PSU-User-Agent** • The forwarded Agent header field of the HTTP request between PSU and TPP, if available.

• String • OPT • E.g.

• **PSU-User-Agent** • The forwarded Agent header field of the HTTP request between PSU and TPP, if available.

• String • OPT • E.g.

PSU-User-Agent • The forwarded Agent header field of the HTTP request between PSU and TPP, if available.

• String • OPT • E.g.

The forwarded Agent header field of the HTTP request between PSU and TPP, if available. • String • OPT • E.g.

String • OPT • E.g.

OPT • E.g.

E.g.

PSU-User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.5) Gecko/20091102 Firefox/3.5.5 (.NET CLR 3.5.30729) • • **PSU-Http-Method** • HTTP

method used at the PSU – TPP interface, if available.

• **PSU-Http-Method**• HTTP method used at the PSU – TPP interface, if available.

PSU-Http-Method• HTTP method used at the PSU – TPP interface, if available.

HTTP method used at the PSU – TPP interface, if available.

Valid values are:

- GET
- POST
- PUT
- PATCH
- DELETE

• • String• OPT• E.g. PSU-Http-Method: GET• • **PSU-Device-ID**• UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

String• OPT• E.g. PSU-Http-Method: GET• • **PSU-Device-ID**• UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

OPT• E.g. PSU-Http-Method: GET• • **PSU-Device-ID**• UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

E.g. PSU-Http-Method: GET• • **PSU-Device-ID**• UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

• **PSU-Device-ID**• UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

PSU-Device-ID• UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

UUID identifies either a device or a device dependant application installation. In case of an installation identification this ID need to be unaltered until removal from device.

• String • OPT • **UUID**

String • OPT • **UUID**

OPT • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

PSU-Device-ID: 5b3ab8e8-0fd5-43d2-946e-d75958b172e7 • **PSU-Geo-Location** • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String • OPT • **RFC 2426**

• **PSU-Geo-Location** • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String • OPT • **RFC 2426**

PSU-Geo-Location • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String • OPT • **RFC 2426**

The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available.

• String • OPT • **RFC 2426**

String • OPT • **RFC 2426**

OPT • **RFC 2426**

RFC 2426

^GEO:[\\d]*.[\\d]*[;][\\d]*.[\\d]*\$

E.g.

PSU-Geo-Location:

GEO:90.023856;25.345963 • **Digest** • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available.

• **Digest** • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available.

Digest • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available.

The forwarded Geo Location of the corresponding HTTP

request between PSU and TPP if available.

• String• MAN• ^.{1,100}\$

String• MAN• ^.{1,100}\$

MAN• ^.{1,100}\$

^{1,100}\$

E.g. Digest: SHA-

256=NzdmZjA4YjY5M2M2NDYyMmVjOWFmMGNmYTZiN
TU3MjVmNDI4NTRIMzJkYzE3ZmNmMDE3ZGFmMjhhNTc
5OTU3OQ==• • **Signature**• Is contained if and only if

the "Signature" element is contained in the header of
the request.

• **Signature**• Is contained if and only if the "Signature"
element is contained in the header of the request.

Signature• Is contained if and only if the "Signature"
element is contained in the header of the request.

Is contained if and only if the "Signature" element is
contained in the header of the request.

See 6.1 Signature for more information.

• String• MAN• See annexes

String• MAN• See annexes

MAN• See annexes

See annexes

• • **TPP-Signature-Certificate**• A signature of the
request by the TPP on application level.

• **TPP-Signature-Certificate**• A signature of the
request by the TPP on application level.

TPP-Signature-Certificate• A signature of the request
by the TPP on application level.

A signature of the request by the TPP on application
level.

See 6.1 Signature for more

information. • String• MAN• ^.{1,5000}\$

String• MAN• ^.{1,5000}\$

MAN• ^.{1,5000}\$

^{1,5000}\$

E.g. TPP-Signature-Certificate:

MIIHgZCCBmugAwIBAgIIZzZvBQlt0UcwDQYJ.....KoZI

hvcNAQELBQAwSTELMAkGA1UEBhMCVVMxEzARBgNVBA

- •
-

Body

Data are not sent in the body in this request.

3.3.4.2 Response

Header

Field • **Description** • **Type** • **Man.** • **Format** • **Content-Type** • Possible values:

Description • **Type** • **Man.** • **Format** • **Content-Type** • Possible values:

Type • **Man.** • **Format** • **Content-Type** • Possible values:

Man. • **Format** • **Content-Type** • Possible values:

Format • **Content-Type** • Possible values:

• **Content-Type** • Possible values:

Content-Type • Possible values:

Possible values:

application/json • String • MAN • E.g. Content-Type:

application/json • • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

String • MAN • E.g. Content-Type: application/json • • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

MAN • E.g. Content-Type: application/json • • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

E.g. Content-Type: application/json • • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

- **X-Request-ID** ID of the request, unique to the call, as determined by the initiating party.

- String • MAN • **UUID**

X-Request-ID ID of the request, unique to the call, as determined by the initiating party.

- String • MAN • **UUID**

ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

String • MAN • **UUID**

MAN • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7 • •

-

Body

Field • Description • Type • Man. • Format • • account
t Identifier of the addressed account.

Description • Type • Man. • Format • • account Identifier of the addressed account.

Type • Man. • Format • • account Identifier of the addressed account.

Man. • Format • • account Identifier of the addressed account.

Format • • account Identifier of the addressed account.

- **account** Identifier of the addressed account.

account Identifier of the addressed account.

Identifier of the addressed account.

Remark for Future: It is recommended to use this data element. The condition might change to "mandatory" in a next version of the specification.

- AccountReference • OPT • E.g. "account":

{...} • • **transactions** • JSON based account report.

AccountReference • OPT • E.g. "account":

{...} • • **transactions** • JSON based account report.

OPT • E.g. "account": {...} • • **transactions** • JSON based account report.

E.g. "account": {...} • • **transactions** • JSON based account report.

• **transactions** • JSON based account report.

transactions • JSON based account report.

JSON based account report.

This account report contains transactions resulting from the query parameters. • AccountReport • OPT • E.g.

"transactions": {...} • • **balances** • A list of balances regarding this account, which might be restricted to the current balance. • List<Balance> • OPT • E.g.

"balances": [...] • • **_links** • List of hyperlinks to be recognised by the TPP.

AccountReport • OPT • E.g. "transactions":

{...} • • **balances** • A list of balances regarding this account, which might be restricted to the current balance. • List<Balance> • OPT • E.g. "balances":

[...] • • **_links** • List of hyperlinks to be recognised by the TPP.

OPT • E.g. "transactions": {...} • • **balances** • A list of balances regarding this account, which might be restricted to the current balance.

• List<Balance> • OPT • E.g. "balances":

[...] • • **_links** • List of hyperlinks to be recognised by the TPP.

E.g. "transactions": {...} • • **balances** • A list of balances regarding this account, which might be restricted to the current balance. • List<Balance> • OPT • E.g.

"balances": [...] • • **_links** • List of hyperlinks to be recognised by the TPP.

• **balances** • A list of balances regarding this account, which might be restricted to the current balance.

• List<Balance> • OPT • E.g. "balances":

[...] • • **_links** • List of hyperlinks to be recognised by the TPP.

balances• A list of balances regarding this account, which might be restricted to the current balance.

• List<Balance>• OPT• E.g. "balances":

[...]• • **_links**• List of hyperlinks to be recognised by the TPP.

A list of balances regarding this account, which might be restricted to the current balance.

• List<Balance>• OPT• E.g. "balances":

[...]• • **_links**• List of hyperlinks to be recognised by the TPP.

List<Balance>• OPT• E.g. "balances":

[...]• • **_links**• List of hyperlinks to be recognised by the TPP.

OPT• E.g. "balances": [...]• • **_links**• List of hyperlinks to be recognised by the TPP.

E.g. "balances": [...]• • **_links**• List of hyperlinks to be recognised by the TPP.

• **_links**• List of hyperlinks to be recognised by the TPP.

_links• List of hyperlinks to be recognised by the TPP.

List of hyperlinks to be recognised by the TPP.

Types supported in this response:

"download": Download link for the query data when the data returned are of a substantial weight. Only for camt-data. • Links • OPT • E.g. "_links":

{...} • • **psuMessage**• Text to show to the PSU • String • OPT • ^.{1,512}\$

Links • OPT • E.g. "_links": {...} • • **psuMessage**• Text to show to the PSU • String • OPT • ^.{1,512}\$

OPT • E.g. "_links": {...} • • **psuMessage**• Text to show to the PSU • String • OPT • ^.{1,512}\$

E.g. "_links": {...} • • **psuMessage**• Text to show to the PSU • String • OPT • ^.{1,512}\$

• **psuMessage**• Text to show to the PSU • String • OPT • ^.{1,512}\$

psuMessage• Text to show to the PSU • String • OPT • ^.{1,512}\$

Text to show to the PSU • String • OPT • ^.{1,512}\$

String• OPT• ^.{1,512}\$

OPT• ^.{1,512}\$

^{1,512}\$

E.g. "psuMessage": "Information for the PSU"• • **tppMessages**• Message for the TPP• List<TppMessage>• OPT• E.g. "tppMessages": [...]

• **tppMessages**• Message for the TPP• List<TppMessage>• OPT• E.g. "tppMessages": [...]

tppMessages• Message for the TPP• List<TppMessage>• OPT• E.g. "tppMessages": [...]

Message for the TPP• List<TppMessage>• OPT• E.g. "tppMessages": [...]

List<TppMessage>• OPT• E.g. "tppMessages": [...]

OPT• E.g. "tppMessages": [...]

E.g. "tppMessages": [...]

•

3.3.4.3 Examples

Example of a search request sending search criteria by dateTo and dateFrom

GET

<https://www.hub.com/aspsp-name/v1/accounts/qwer3456tzui7890/transactions?dateFrom=2017-10-25&dateTo=2017-11-05&bookingStatus=both>

Accept: application/json

X-Request-ID: 96201400-6ff9-11e8-adc0-fa7ae01bbebc

Authorization: Bearer 2YotnFZFEjrlzCsicMWpAA

Consent-ID: 7890-asdf-4321

PSU-IP-Address: 192.168.8.16

PSU-IP-Port: 443

PSU-Accept: application/json

PSU-Accept-Charset: utf-8

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```
PSU-Accept-Encoding: gzip
PSU-Accept-Language: es-ES
PSU-User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:54.0) Gecko/20100101 Firefox/54.0
PSU-Http-Method: GET
PSU-Device-ID: f8b3feda-6fe3-11e8-adc0-fa7ae01bbebc
PSU-GEO-Location: GEO:12.526347;54.649862
Date: Sun, 26 Sep 2017 15:02:48 GMT
```

Example of a search request sending entryReferenceFrom search criteria

```
GET https://www.hub.com/aspsp-name/v1/accounts/qwer3456tzui7890/transactions?entryReferenceFrom=1234-asd-4564700&bookingStatus=both
Accept: application/json
X-Request-ID: 96201400-6ff9-11e8-adc0-fa7ae01bbebc
Authorization: Bearer 2YotnFZFEjrlzCsicMWpAA
Consent-ID: 7890-asdf-4321
PSU-IP-Address: 192.168.8.16
PSU-IP-Port: 443
PSU-Accept: application/json
PSU-Accept-Charset: utf-8
PSU-Accept-Encoding: gzip
PSU-Accept-Language: es-ES
PSU-User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:54.0) Gecko/20100101 Firefox/54.0
PSU-Http-Method: GET
PSU-Device-ID: f8b3feda-6fe3-11e8-adc0-fa7ae01bbebc
PSU-GEO-Location: GEO:12.526347;54.649862
Date: Sun, 26 Sep 2017 15:02:48 GMT
```

Example of response with pagination

```
HTTP/1.1 200 OK
X-Request-ID: 96201400-6ff9-11e8-adc0-fa7ae01bbebc
Date: Sun, 26 Sep 2017 15:02:50 GMT
Content-Type: application/json
{
```

```

"account": {
  "iban": "ES1111111111111111111111"
},
"transactions": {
  "booked": [
    {
      "transactionId": "1234567",
      "creditorName": "John Miles",
      "creditorAccount": {
        "iban":
          "ES1111111111111111111111"
      },
      "transactionAmount": {
        "currency": "EUR",
        "amount": "256.67"
      },
      "bookingDate": "2017-10-25",
      "valueDate": "2017-10-26",
      "remittanceInformationUnstructured": "Example for Remittance Information"
    },
    {
      "transactionId": "1234568",
      "debtorName": "Paul Simpson",
      "debtorAccount": {
        "iban": "NL354543123456900"
      },
      "transactionAmount": {
        "currency": "EUR",
        "content": "343.01"
      },
      "bookingDate": "2017-10-25",
      "valueDate": "2017-10-26",
      "remittanceInformationUnstructured": "Another example for Remittance Information"
    }
  ]
}

```

```

    }
  ],
  "pending": [
    {
      "transactionId": "123456789",
      "creditorName": "Claude Renault",
      "creditorAccount": {
        "iban": "NL354543123456900"
      },
      "transactionAmount": {
        "currency": "EUR",
        "amount": "-100.03"
      },
      "valueDate": "2017-10-26",
      "remittanceInformationUnstructured": "Another example for Remittance Information"
    }
  ],
  "_links": {
    "account": {
      "href": "/v1/accounts/qwer3456tzui7890"
    },
    "first": {
      "href": "/v1/accounts/qwer3456tzui7890/transactions?page[number]=1&page[size]=15"
    },
    "previous": {
      "href": "/v1/accounts/qwer3456tzui7890/transactions?page[number]=2&page[size]=15"
    },
    "next": {
      "href": "/v1/accounts/qwer3456tzui7890/transactions?page[number]=4&page[size]=15"
    }
  }
}

```



```

    },
    "last": {
      "href": "/v1/accounts/
qwer3456tzui7890/transactions?page
[number]=10&page[size]=15"
    }
  }
}
}
}

```

Example of response with error

```

{
  "tppMessages": [{
    "category": "ERROR",
    "code": "ACCESS_EXCEEDED"
  }
]
}

```

3.4 FCS: Fund Confirmation Service

3.4.1 Confirmation of funds

This type of message is used in the fund query service. The TPP sends a request to the HUB to query the funds for a given amount.

The HUB communicates with the ASPSP to ask whether it has funds or not, and after the query, returns the response to the TPP.

Rules that are applied to confirm funds in multi-currency accounts

- If no card number, but the PSU account identifier is contained: check on default account registered by customer.

- If no card number but the PSU and the account identifier with currency is contained: check the availability of funds on the corresponding sub-account.
- If card number and the PSU account identifier is contained: check on sub-account addressed by card, if the addressed card is registered with one of the sub-accounts.
- If the card number is not registered for any of the sub-accounts, or if the card number is registered for a different sub-account the card number might be ignored.

3.4.1.1 Request

Endpoint

POST {provider}/{aspsp}/v1/funds-confirmations

Path

Field • **Description** • **Type** • **Man.** • **Format** • **provider** • URL of the HUB where the service is published • String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

Description • **Type** • **Man.** • **Format** • **provider** • URL of the HUB where the service is published • String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

Type • **Man.** • **Format** • **provider** • URL of the HUB where the service is published • String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

Man. • **Format** • **provider** • URL of the HUB where the service is published • String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

Format • **provider** • URL of the HUB where the service is published • String • MAN • E.g.

www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

• **provider** • URL of the HUB where the service is published • String • MAN • E.g.

www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

provider • URL of the HUB where the service is published • String • MAN • E.g.

www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

URL of the HUB where the service is published • String • MAN • E.g.

www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

• **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

aspsp • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

String • MAN • E.g. aspsp-name • •

MAN • E.g. aspsp-name • •

E.g. aspsp-name • •

•

Header

Field • Description • Type • Man. • Format • • X-Request-ID • ID of the request, unique to the call, as determined by the initiating party.

- String • MAN • **UUID**

Description • Type • Man. • Format • • X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Type • Man. • Format • • X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Man. • Format • • X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Format • • X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

• **X-Request-ID •** ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

String • MAN • **UUID**

MAN • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-

d75958b172e7 • • **Digest •** Is contained if and only if the "Signature" element is contained in the header of the request.

• **Digest •** Is contained if and only if the "Signature" element is contained in the header of the request.

Digest • Is contained if and only if the "Signature" element is contained in the header of the request.

Is contained if and only if the "Signature" element is contained in the header of the request.

See 6.1 Signature for more information. • String • MAN • ^.{1,100}\$

String • MAN • ^.{1,100}\$

MAN • ^.{1,100}\$

^.{1,100}\$

E.g. Digest: SHA-

256=NzdmZjA4YjY5M2M2NDYyMmVjOWFmMGNmYTZiN
TU3MjVmNDI4NTRIMzJkYzE3ZmNmMDE3ZGFmMjhhNTc
5OTU3OQ== • • **Signature** • A signature of the request
by the TPP on application level.

• **Signature** • A signature of the request by the TPP on
application level.

Signature • A signature of the request by the TPP on
application level.

A signature of the request by the TPP on application
level.

See 6.1 Signature for more information. • String • MAN • See annexes

String • MAN • See annexes

MAN • See annexes

See annexes

• • **TPP-Signature-Certificate** • The certificate used
for signing the request, in base64 encoding.

• String • MAN • ^.{1,512}\$

• **TPP-Signature-Certificate** • The certificate used for
signing the request, in base64 encoding.

• String • MAN • ^.{1,512}\$

TPP-Signature-Certificate • The certificate used for
signing the request, in base64 encoding.

• String • MAN • ^.{1,512}\$

The certificate used for signing the request, in base64
encoding. • String • MAN • ^.{1,512}\$

String • MAN • ^.{1,512}\$

MAN • ^.{1,512}\$

^.{1,512}\$

E.g. TPP-Signature-Certificate:

MIIHgzCCBmugAwIBAgIIZzZvBQlt0UcwDQYJ.....KoZI
hvcNAQELBQAuSTELMAkGA1UEBhMCMVVMxEzARBgNVBA

- •
-

Body

**Field• Description• Type• Mand.• Format• • cardN
umber•** Card Number of the card issued by the PIISP.
Should be delivered if available.

Description• Type• Mand.• Format• • cardNumber
• Card Number of the card issued by the PIISP. Should
be delivered if available.

Type• Mand.• Format• • cardNumber• Card Number
of the card issued by the PIISP. Should be delivered if
available.

Mand.• Format• • cardNumber• Card Number of the
card issued by the PIISP. Should be delivered if
available.

Format• • cardNumber• Card Number of the card
issued by the PIISP. Should be delivered if available.

• **cardNumber•** Card Number of the card issued by the
PIISP. Should be delivered if available.

cardNumber• Card Number of the card issued by the
PIISP. Should be delivered if available.

Card Number of the card issued by the PIISP. Should be
delivered if available.

• String• OPT• E.g.

String• OPT• E.g.

OPT• E.g.

E.g.

"cardNumber": "1111-1111-1111-

1111"• • **account•** PSU's account number.

• **AccountReference•** MAN• E.g. "account":

{"iban": "ES11111111111111111111"}• • **payee•** The
merchant where the card is accepted as an information

to the PSU. • String• OPT• ^.{1,70}\$

• **account**• PSU's account number.
• AccountReference• MAN• E.g. "account":
{"iban":"ES11111111111111111111"} • • **payee**• The
merchant where the card is accepted as an information
to the PSU. • String• OPT• ^.{1,70}\$

account• PSU's account number.
• AccountReference• MAN• E.g. "account":
{"iban":"ES11111111111111111111"} • • **payee**• The
merchant where the card is accepted as an information
to the PSU. • String• OPT• ^.{1,70}\$

PSU's account number. • AccountReference• MAN• E.g.
"account":
{"iban":"ES11111111111111111111"} • • **payee**• The
merchant where the card is accepted as an information
to the PSU. • String• OPT• ^.{1,70}\$

AccountReference• MAN• E.g. "account":
{"iban":"ES11111111111111111111"} • • **payee**• The
merchant where the card is accepted as an information
to the PSU. • String• OPT• ^.{1,70}\$

MAN• E.g. "account":
{"iban":"ES11111111111111111111"} • • **payee**• The
merchant where the card is accepted as an information
to the PSU. • String• OPT• ^.{1,70}\$

E.g. "account":
{"iban":"ES11111111111111111111"} • • **payee**• The
merchant where the card is accepted as an information
to the PSU. • String• OPT• ^.{1,70}\$

• **payee**• The merchant where the card is accepted as
an information to the PSU. • String• OPT• ^.{1,70}\$

payee• The merchant where the card is accepted as an
information to the PSU. • String• OPT• ^.{1,70}\$

The merchant where the card is accepted as an
information to the PSU. • String• OPT• ^.{1,70}\$

String• OPT• ^.{1,70}\$

OPT• ^.{1,70}\$

^.{1,70}\$

E.g. "payee":"Merchant
name" • • **instructedAmount**• Transaction amount to

be checked within the funds check mechanism.

• Amount • MAN • E.g. "instructedAmount": {...} • •

• **instructedAmount** • Transaction amount to be checked within the funds check mechanism.

• Amount • MAN • E.g. "instructedAmount": {...} • •

instructedAmount • Transaction amount to be checked within the funds check mechanism.

• Amount • MAN • E.g. "instructedAmount": {...} • •

Transaction amount to be checked within the funds check mechanism. • Amount • MAN • E.g.

"instructedAmount": {...} • •

Amount • MAN • E.g. "instructedAmount": {...} • •

MAN • E.g. "instructedAmount": {...} • •

E.g. "instructedAmount": {...} • •

•

3.4.1.2 Response

This message is returned by the HUB to the TPP as a response to the fund confirmation message.

Header

Field • Description • Type • Man. • Format • • Location

n • Contains the link to the resource

generated. • String • MAN • • • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Description • Type • Man. • Format • • Location • Contains the link to the resource

generated. • String • MAN • • • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Type • Man. • Format • • Location • Contains the link to the resource generated. • String • MAN • • • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Man. • Format • • Location • Contains the link to the resource generated. • String • MAN • • • **X-Request-ID** • ID of the request, unique to the call, as determined

by the initiating party. • String • MAN • **UUID**

Format • • **Location** • Contains the link to the resource generated. • String • MAN • • • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

• **Location** • Contains the link to the resource generated. • String • MAN • • • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Location • Contains the link to the resource generated. • String • MAN • • • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Contains the link to the resource generated. • String • MAN • • • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

String • MAN • • • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

MAN • • • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

• • **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

• **X-Request-ID** • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

X-Request-ID • ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

String • MAN • **UUID**

MAN • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7 • •

•

Body

Field • Description • Type • Man. • Format • • fundsAvailable Equals true if sufficient funds are available at the time of the request, false otherwise.
• Boolean • MAN • E.g. "fundsAvailable": true • • **tppMessages** Message for the TPP. • List<TppMessage> • OPT • E.g. "tppMessages": [...] • •

Description • Type • Man. • Format • • fundsAvailable Equals true if sufficient funds are available at the time of the request, false otherwise.
• Boolean • MAN • E.g. "fundsAvailable": true • • **tppMessages** Message for the TPP. • List<TppMessage> • OPT • E.g. "tppMessages": [...] • •

Type • Man. • Format • • fundsAvailable Equals true if sufficient funds are available at the time of the request, false otherwise. • Boolean • MAN • E.g. "fundsAvailable": true • • **tppMessages** Message for the TPP. • List<TppMessage> • OPT • E.g. "tppMessages": [...] • •

Man. • Format • • fundsAvailable Equals true if sufficient funds are available at the time of the request, false otherwise. • Boolean • MAN • E.g. "fundsAvailable": true • • **tppMessages** Message for the TPP. • List<TppMessage> • OPT • E.g. "tppMessages": [...] • •

Format • • fundsAvailable Equals true if sufficient funds are available at the time of the request, false otherwise. • Boolean • MAN • E.g. "fundsAvailable": true • • **tppMessages** Message for the TPP. • List<TppMessage> • OPT • E.g. "tppMessages": [...] • •

• **fundsAvailable** Equals true if sufficient funds are available at the time of the request, false otherwise.
• Boolean • MAN • E.g. "fundsAvailable":

true • • **tppMessages** • Message for the
TPP. • List<TppMessage> • OPT • E.g. "tppMessages":
[...] • •

fundsAvailable • Equals true if sufficient funds are
available at the time of the request, false otherwise.

• Boolean • MAN • E.g. "fundsAvailable":
true • • **tppMessages** • Message for the
TPP. • List<TppMessage> • OPT • E.g. "tppMessages":
[...] • •

Equals true if sufficient funds are available at the time of
the request, false otherwise. • Boolean • MAN • E.g.
"fundsAvailable": true • • **tppMessages** • Message for
the TPP. • List<TppMessage> • OPT • E.g.
"tppMessages": [...] • •

Boolean • MAN • E.g. "fundsAvailable":
true • • **tppMessages** • Message for the
TPP. • List<TppMessage> • OPT • E.g. "tppMessages":
[...] • •

MAN • E.g. "fundsAvailable":
true • • **tppMessages** • Message for the
TPP. • List<TppMessage> • OPT • E.g. "tppMessages":
[...] • •

E.g. "fundsAvailable": true • • **tppMessages** • Message
for the TPP. • List<TppMessage> • OPT • E.g.
"tppMessages": [...] • •

• **tppMessages** • Message for the
TPP. • List<TppMessage> • OPT • E.g. "tppMessages":
[...] • •

tppMessages • Message for the
TPP. • List<TppMessage> • OPT • E.g. "tppMessages":
[...] • •

Message for the TPP. • List<TppMessage> • OPT • E.g.
"tppMessages": [...] • •

List<TppMessage> • OPT • E.g. "tppMessages": [...] • •

OPT • E.g. "tppMessages": [...] • •

E.g. "tppMessages": [...] • •

•

3.4.1.3 Examples

Example of request

```
POST https://www.hub.com/aspsp-name/v1/funds-
confirmations
Content-Encoding: gzip
Content-Type: application/json
X-Request-ID: 96201400-6ff9-11e8-adc0-fa7ae01bbebc
Authorization: Bearer 2YotnFZFEjrlzCsicMWpAA
Consent-ID: 7890-asdf-4321
Date: Sun, 17 Oct 2017 13:15:17 GMT
{
  "cardNumber": "87432569872156",
  "account": {
    "iban": "ES1111111111111111111111"
  },
  "payee": "Name123",
  "instructedAmount": {
    "currency": "EUR",
    "amount": "153.50"
  }
}
```

Example of response with available funds

```
HTTP/1.1 200 OK
X-Request-ID: 0ee25bf4-6ff1-11e8-adc0-fa7ae01bbebc
Date: Sun, 26 Sep 2017 15:02:47 GMT
Content-Type: application/json
{
  "fundsAvailable": true
}
```

3.5 OAuth2 as pre-step

3.5.1 Obtain authorisation

3.5.1.1 Request

The TPP redirects the PSU's browser so that it carries out the following request (redirection) to the HUB:

Endpoint

GET
/{aspsp}/authorize?response_type={response_type}&client_id={client_id}&scope={scope}&state={state}&redirect_uri={redirect_uri}&code_challenge={code_challenge}&code_challenge_method={code_challenge_method}

Path

Field • **Description** • **Type** • **Man.** • **Format** • **provider** • **URL**
URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

Description • **Type** • **Man.** • **Format** • **provider** • **URL**
URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

Type • **Man.** • **Format** • **provider** • **URL**
URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

Man. • **Format** • **provider** • **URL**
URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

Formato • **provider** URL of the HUB where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

• **provider** URL of the HUB where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

provider URL of the HUB where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

URL of the HUB where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

String • MAN • E.g. www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

MAN • E.g. www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

E.g. www.hub.com • • **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

• **aspsp** Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

aspsp Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

String • MAN • E.g. aspsp-name • •

MAN • E.g. aspsp-name • •

E.g. aspsp-name • •

•

Query parameters

Field • **Description** • **Type** • **Man.** • **Format** • • **response_type** • Its value must be established at "code". • String • MAN • E.g. response_type=code • • **client_id** • organizationIdentifie

r" provided in the eIDAS certificate formed as:

Description • Type • Man. • Format • • response_type

e • Its value must be established at
"code". • String • MAN • E.g.
response_type=code • • **client_id** • organizationIdentifier
r" provided in the eIDAS certificate formed as:

Type • Man. • Format • • response_type • Its value
must be established at "code". • String • MAN • E.g.
response_type=code • • **client_id** • organizationIdentifier
r" provided in the eIDAS certificate formed as:

Man. • Format • • response_type • Its value must be
established at "code". • String • MAN • E.g.
response_type=code • • **client_id** • organizationIdentifier
r" provided in the eIDAS certificate formed as:

Format • • response_type • Its value must be
established at "code". • String • MAN • E.g.
response_type=code • • **client_id** • organizationIdentifier
r" provided in the eIDAS certificate formed as:

• **response_type** • Its value must be established at
"code". • String • MAN • E.g.
response_type=code • • **client_id** • organizationIdentifier
r" provided in the eIDAS certificate formed as:

response_type • Its value must be established at
"code". • String • MAN • E.g.
response_type=code • • **client_id** • organizationIdentifier
r" provided in the eIDAS certificate formed as:

Its value must be established at
"code". • String • MAN • E.g.
response_type=code • • **client_id** • organizationIdentifier
r" provided in the eIDAS certificate formed as:

String • MAN • E.g.
response_type=code • • **client_id** • organizationIdentifier
r" provided in the eIDAS certificate formed as:

MAN • E.g.
response_type=code • • **client_id** • organizationIdentifier
r" provided in the eIDAS certificate formed as:

E.g.
response_type=code • • **client_id** • organizationIdentifier
r" provided in the eIDAS certificate formed as:

• **client_id** • organizationIdentifier" provided in the

eIDAS certificate formed as:

client_id organizationIdentifier" provided in the eIDAS certificate formed as:

organizationIdentifier" provided in the eIDAS certificate formed as:

- PSD
- 2 characters from the NCA country code (according to ISO 3166)
- Carácter "-"
- 2-8 characters for the NCA identifier (A-Z in upper case)
- Carácter "-"
- PSP identifier • String • MAN • ^.{1,70}\$

String • MAN • ^.{1,70}\$

MAN • ^.{1,70}\$

^.{1,70}\$

E.g. client_id=PSDES-BDE-3DFD246 • • **scope** Possible scope:

• **scope** Possible scope:

scope Possible scope:

Possible scope:

- PIS
- AIS
- FCS
- SVA

May indicate more than one, separated by a +space (%20). • String • MAN • ^.{1,64}\$

String • MAN • ^.{1,64}\$

MAN • ^.{1,64}\$

^.{1,64}\$

E.g. scope=PIS+AIS+SVA • • **state** • Opaque value generated by the TPP. Used to prevent "cross-site request forgery" XSRF attacks. • String • MAN • ^.{1,64}\$

• **state** • Opaque value generated by the TPP. Used to prevent "cross-site request forgery" XSRF attacks. • String • MAN • ^.{1,64}\$

state • Opaque value generated by the TPP. Used to prevent "cross-site request forgery" XSRF attacks. • String • MAN • ^.{1,64}\$

Opaque value generated by the TPP. Used to prevent "cross-site request forgery" XSRF attacks. • String • MAN • ^.{1,64}\$

String • MAN • ^.{1,64}\$

MAN • ^.{1,64}\$

^.{1,64}\$

E.g. state=XYZ • • **redirect_uri** • URL returned to the HUB where it will report the authorisation "code" that will be used subsequently to obtain the access token. • String • MAN • ^.{1,250}\$

• **redirect_uri** • URL returned to the HUB where it will report the authorisation "code" that will be used subsequently to obtain the access token. • String • MAN • ^.{1,250}\$

redirect_uri • URL returned to the HUB where it will report the authorisation "code" that will be used subsequently to obtain the access token. • String • MAN • ^.{1,250}\$

URL returned to the HUB where it will report the authorisation "code" that will be used subsequently to obtain the access token. • String • MAN • ^.{1,250}\$

String • MAN • ^.{1,250}\$

MAN • ^.{1,250}\$

^.{1,250}\$

E.g.

redirect_uri=https%3A%2F%2Fwww%2Etp%2Ecom%2Fcb • • **code_challenge** • PKCE challenge used to prevent code injection attacks. According to RFC

7636. • String • MAN • ^.{1,128}\$

• **code_challenge** • PKCE challenge used to prevent code injection attacks. According to RFC

7636. • String • MAN • ^.{1,128}\$

code_challenge • PKCE challenge used to prevent code injection attacks. According to RFC

7636. • String • MAN • ^.{1,128}\$

PKCE challenge used to prevent code injection attacks.

According to RFC 7636. • String • MAN • ^.{1,128}\$

String • MAN • ^.{1,128}\$

MAN • ^.{1,128}\$

^.{1,128}\$

E.g.

code_challenge=E9Melhoa2OwvFrEMTJguCHaoeK1t8UR

WbuGJSstw-cM • • **code_challenge_method** • Method

to verify the code that may be "plain" or "S256". S256

(SHA 256) preferred • String • OPT • ^.{1,120}\$

• **code_challenge_method** • Method to verify the code that may be "plain" or "S256". S256 (SHA 256)

preferred • String • OPT • ^.{1,120}\$

code_challenge_method • Method to verify the code that may be "plain" or "S256". S256 (SHA 256)

preferred • String • OPT • ^.{1,120}\$

Method to verify the code that may be "plain" or "S256".

S256 (SHA 256) preferred • String • OPT • ^.{1,120}\$

String • OPT • ^.{1,120}\$

OPT • ^.{1,120}\$

^.{1,120}\$

E.g. code_challenge_method=S256 • •

•

Header

No additional fields are specified.

Body

The data are not sent in the body in this response.

3.5.1.2 Response OK

Response if the request has been processed correctly. The result is the redirection initiated by the HUB from the PSU navigator to the URL of the environment provided by the TPP.

Path

No additional fields are specified.

Query Parameters

Field • **Description** • **Type** • **Man.** • **Format** • **Location** • Contains the URL where the redirection is carried out to the TPP. • String • MAN • E.g. Location:

https://www.tpp.com/cb • **code** • One-time-only authorisation generated by the HUB. A life of not more than 10 minutes is recommended. • String • MAN • ^.{1,64}\$

Description • **Type** • **Man.** • **Format** • **Location** • Contains the URL where the redirection is carried out to the TPP. • String • MAN • E.g. Location:

https://www.tpp.com/cb • **code** • One-time-only authorisation generated by the HUB. A life of not more than 10 minutes is recommended. • String • MAN • ^.{1,64}\$

Type • **Man.** • **Format** • **Location** • Contains the URL where the redirection is carried out to the TPP. • String • MAN • E.g. Location:

https://www.tpp.com/cb • **code** • One-time-only authorisation generated by the HUB. A life of not more than 10 minutes is recommended. • String • MAN • ^.{1,64}\$

Man. • **Format** • **Location** • Contains the URL where the redirection is carried out to the TPP. • String • MAN • E.g. Location: https://www.tpp.com/cb • **code** • One-time-only authorisation generated by the HUB. A life of not more than 10 minutes is recommended. • String • MAN • ^.{1,64}\$

Format • **Location** • Contains the URL where the redirection is carried out to the TPP. • String • MAN • E.g. Location: https://www.tpp.com/cb • **code** • One-time-only authorisation generated by the HUB. A life of not more than 10 minutes is recommended. • String • MAN • ^.{1,64}\$

• **Location**• Contains the URL where the redirection is carried out to the TPP. • String• MAN• E.g. Location: https://www.tpp.com/cb • • **code**• One-time-only authorisation generated by the HUB. A life of not more than 10 minutes is recommended. • String• MAN• ^.{1,64}\$

Location• Contains the URL where the redirection is carried out to the TPP. • String• MAN• E.g. Location: https://www.tpp.com/cb • • **code**• One-time-only authorisation generated by the HUB. A life of not more than 10 minutes is recommended. • String• MAN• ^.{1,64}\$

Contains the URL where the redirection is carried out to the TPP. • String• MAN• E.g. Location:

https://www.tpp.com/cb • • **code**• One-time-only authorisation generated by the HUB. A life of not more than 10 minutes is recommended. • String• MAN• ^.{1,64}\$

String• MAN• E.g. Location:

https://www.tpp.com/cb • • **code**• One-time-only authorisation generated by the HUB. A life of not more than 10 minutes is recommended. • String• MAN• ^.{1,64}\$

MAN• E.g. Location:

https://www.tpp.com/cb • • **code**• One-time-only authorisation generated by the HUB. A life of not more than 10 minutes is recommended. • String• MAN• ^.{1,64}\$

E.g. Location: https://www.tpp.com/cb • • **code**• One-time-only authorisation generated by the HUB. A life of not more than 10 minutes is recommended. • String• MAN• ^.{1,64}\$

• **code**• One-time-only authorisation generated by the HUB. A life of not more than 10 minutes is recommended. • String• MAN• ^.{1,64}\$

code• One-time-only authorisation generated by the HUB. A life of not more than 10 minutes is recommended. • String• MAN• ^.{1,64}\$

One-time-only authorisation generated by the HUB. A life of not more than 10 minutes is recommended. • String• MAN• ^.{1,64}\$

String• MAN• ^.{1,64}\$

MAN• ^.{1,64}\$

^.{1,64}\$

E.g. code=SpIxIOBeZQQYbYS6WxSbIA • • **state**• Opaque value generated by the TPP. Used to maintain the status between request and response. The HUB will include it when it redirects the PSU's browser back to the TPP. Used to prevent "cross-site request forgery"

attacks. • String • MAN • ^.{1,64}\$

• **state** • Opaque value generated by the TPP. Used to maintain the status between request and response. The HUB will include it when it redirects the PSU's browser back to the TPP. Used to prevent "cross-site request forgery" attacks. • String • MAN • ^.{1,64}\$

state • Opaque value generated by the TPP. Used to maintain the status between request and response. The HUB will include it when it redirects the PSU's browser back to the TPP. Used to prevent "cross-site request forgery" attacks. • String • MAN • ^.{1,64}\$

Opaque value generated by the TPP. Used to maintain the status between request and response. The HUB will include it when it redirects the PSU's browser back to the TPP. Used to prevent "cross-site request forgery" attacks. • String • MAN • ^.{1,64}\$

String • MAN • ^.{1,64}\$

MAN • ^.{1,64}\$

^.{1,64}\$

E.g. state=XYZ • •

•

Body

Data are not sent in the body in this request.

3.5.1.3 Error response

Response if there has been any error in the request. The result is the redirection initiated by the HUB from the PSU navigator to the URL of the environment provided by the TPP.

Path

No additional fields are specified.

Query Parameters

Field	Description	Type	Man.	Format	Location
n	Contains the URL that is redirected to the TPP.	String	MAN	E.g. Location: https://www.tpp.com/cb	•
error	Code that indicates				•

the error that has occurred. • String• MAN• E.g.
error=invalid_request

Description• Type• Man. • Format• • Location• Contains the URL that is redirected to the TPP. • String• MAN• E.g. Location: https://www.tpp.com/cb • • **error•** Code that indicates the error that has occurred. • String• MAN• E.g. error=invalid_request

Type• Man. • Format• • Location• Contains the URL that is redirected to the TPP. • String• MAN• E.g. Location: https://www.tpp.com/cb • • **error•** Code that indicates the error that has occurred. • String• MAN• E.g. error=invalid_request

Man. • Format• • Location• Contains the URL that is redirected to the TPP. • String• MAN• E.g. Location: https://www.tpp.com/cb • • **error•** Code that indicates the error that has occurred. • String• MAN• E.g. error=invalid_request

Format• • Location• Contains the URL that is redirected to the TPP. • String• MAN• E.g. Location: https://www.tpp.com/cb • • **error•** Code that indicates the error that has occurred. • String• MAN• E.g. error=invalid_request

• Location• Contains the URL that is redirected to the TPP. • String• MAN• E.g. Location: https://www.tpp.com/cb • • **error•** Code that indicates the error that has occurred. • String• MAN• E.g. error=invalid_request

Location• Contains the URL that is redirected to the TPP. • String• MAN• E.g. Location: https://www.tpp.com/cb • • **error•** Code that indicates the error that has occurred. • String• MAN• E.g. error=invalid_request

Contains the URL that is redirected to the TPP. • String• MAN• E.g. Location: https://www.tpp.com/cb • • **error•** Code that indicates the error that has occurred. • String• MAN• E.g. error=invalid_request

String• MAN• E.g. Location: https://www.tpp.com/cb • • **error•** Code that indicates the error that has occurred. • String• MAN• E.g.

error=invalid_request

MAN• E.g. Location:

https://www.tpp.com/cb• • **error**• Code that indicates the error that has occurred. • String• MAN• E.g. error=invalid_request

E.g. Location: https://www.tpp.com/cb• • **error**• Code that indicates the error that has occurred.

• String• MAN• E.g. error=invalid_request

• **error**• Code that indicates the error that has occurred. • String• MAN• E.g. error=invalid_request

error• Code that indicates the error that has occurred.

• String• MAN• E.g. error=invalid_request

Code that indicates the error that has occurred.

• String• MAN• E.g. error=invalid_request

String• MAN• E.g. error=invalid_request

MAN• E.g. error=invalid_request

E.g. error=invalid_request

• • **state**• Value generated by the TPP. Used to maintain the status between request and response. The HUB will return it in the response. • String• MAN• E.g. state=XYZ• •

• **state**• Value generated by the TPP. Used to maintain the status between request and response. The HUB will return it in the response. • String• MAN• E.g. state=XYZ• •

state• Value generated by the TPP. Used to maintain the status between request and response. The HUB will return it in the response. • String• MAN• E.g. state=XYZ• •

Value generated by the TPP. Used to maintain the status between request and response. The HUB will return it in the response. • String• MAN• E.g. state=XYZ• •

String• MAN• E.g. state=XYZ• •

MAN• E.g. state=XYZ• •

E.g. state=XYZ• •

•

Body

Data are not sent in the body in this request.

3.5.1.4 Examples

Example of request

```
GET https://www.hub.com/aspsp-
name/authorize?response_type=code&client_id=PSDES-
BDE-
3DFD246&scope=PIS%20AIS%20SVA&state=xyz&redirect_uri
=https%3A%2F%2Fwww%2Ehub%2Ecom%2Fcb&code_challenge=E
9MeIhoa2OwvFrEMTJguCHaoeK1t8URWbuGJSstw-
cM&code_challenge_method=S256
```

Example of OK response

```
HTTP/1.1 302 Found
Location:
https://www.tpp.com/cb?code=Sp1x10BeZQQYbYS6WxSbIA&s
tate=xyz
```

Example of NOK response

```
HTTP/1.1 302 Found
Location:
https://www.tpp.com/cb?error=access_denied&state=xyz
```

3.5.2 Obtain access token

This message is sent by the HUB to ASPSP to exchange the authorisation code obtained in the prior step and obtain an access token and refresh token.

3.5.2.1 Request

Endpoint

POST {provider}/{aspsp}/token

Path

Field • **Description** • **Type** • **Mand.** • **Format** • • **provider** • URL of the HUB where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

Description • **Type** • **Mand.** • **Format** • • **provider** • URL of the HUB where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

Type • **Mand.** • **Format** • • **provider** • URL of the HUB where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

Mand. • **Format** • • **provider** • URL of the HUB where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

Format • • **provider** • URL of the HUB where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

• **provider** • URL of the HUB where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

provider • URL of the HUB where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

URL of the HUB where the service is published. • String • MAN • E.g.

www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

String • MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

MAN • E.g. www.hub.com • • **aspsp** • Name of the ASPSP

to which the request is made. • String • MAN • E.g. aspsp-name • •

E.g. www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

• **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

aspsp • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • •

String • MAN • E.g. aspsp-name • •

MAN • E.g. aspsp-name • •

E.g. aspsp-name • •

•



Request Parameters

Field • Description • Type • Mand. • Format • • grant_type • Must take the value of

"authorisation_code" • String • MAN • E.g. grant_type=authorization_code • • **client_id** • "organizationIdentifier" provided in the eIDAS certificate formed as:

Description • Type • Mand. • Format • • grant_type

Type • Mand. • Format • • grant_type • Must take the value of "authorisation_code" • String • MAN • E.g. grant_type=authorization_code • • **client_id** • "organizationIdentifier" provided in the eIDAS certificate formed as:

Mand. • Format • • grant_type • Must take the value of "authorisation_code" • String • MAN • E.g. grant_type=authorization_code • • **client_id** • "organizationIdentifier" provided in the eIDAS certificate formed as:

Format • • grant_type • Must take the value of

"authorisation_code"• String• MAN• E.g.
grant_type=authorization_code• • **client_id**• "organizationIdentifier" provided in the eIDAS certificate formed as:

• **grant_type**• Must take the value of
"authorisation_code"• String• MAN• E.g.
grant_type=authorization_code• • **client_id**• "organizationIdentifier" provided in the eIDAS certificate formed as:

grant_type• Must take the value of
"authorisation_code"• String• MAN• E.g.
grant_type=authorization_code• • **client_id**• "organizationIdentifier" provided in the eIDAS certificate formed as:

Must take the value of
"authorisation_code"• String• MAN• E.g.
grant_type=authorization_code• • **client_id**• "organizationIdentifier" provided in the eIDAS certificate formed as:

String• MAN• E.g.
grant_type=authorization_code• • **client_id**• "organizationIdentifier" provided in the eIDAS certificate formed as:

MAN• E.g.
grant_type=authorization_code• • **client_id**• "organizationIdentifier" provided in the eIDAS certificate formed as:

E.g.
grant_type=authorization_code• • **client_id**• "organizationIdentifier" provided in the eIDAS certificate formed as:

• **client_id**• "organizationIdentifier" provided in the eIDAS certificate formed as:

client_id• "organizationIdentifier" provided in the eIDAS certificate formed as:

"organizationIdentifier" provided in the eIDAS certificate formed as:

- PSD
- 2 characters from the NCA country code (according

- to ISO 3166)
- Carácter "-"
 - 2-8 characters for the NCA identifier (A-Z in upper case)
 - Carácter "-"
 - PSP identifier• String• MAN• ^.{1,70}\$
String• MAN• ^.{1,70}\$
MAN• ^.{1,70}\$
^.{1,70}\$
- E.g. client_id=PSDES-BDE-3DFD246• • **code**• Authorisation code returned by the ASPSP in the previous application requesting an authorisation code• String• MAN• ^.{1,64}\$
- **code**• Authorisation code returned by the ASPSP in the previous application requesting an authorisation code• String• MAN• ^.{1,64}\$
- code**• Authorisation code returned by the ASPSP in the previous application requesting an authorisation code• String• MAN• ^.{1,64}\$
- Authorisation code returned by the ASPSP in the previous application requesting an authorisation code• String• MAN• ^.{1,64}\$
- String• MAN• ^.{1,64}\$
- MAN• ^.{1,64}\$
- ^.{1,64}\$
- E.g. code=SpIxlOBeZQQY
- bYS6WxSbIA• • **redirect_uri**• URL is returned to the TPP where the authorisation "code" is entered. It must be the same as that entered in the authorisation code request.• String• MAN• ^.{1,250}\$
- **redirect_uri**• URL is returned to the TPP where the authorisation "code" is entered. It must be the same as that entered in the authorisation code request.• String• MAN• ^.{1,250}\$
- redirect_uri**• URL is returned to the TPP where the

authorisation "code" is entered. It must be the same as that entered in the authorisation code request. • String • MAN • ^.{1,250}\$

URL is returned to the TPP where the authorisation "code" is entered. It must be the same as that entered in the authorisation code request. • String • MAN • ^.{1,250}\$

String • MAN • ^.{1,250}\$

MAN • ^.{1,250}\$

^.{1,250}\$

E.g.

redirect_uri=https%3A%2F%2Fwww%2Eetpp%2Ecom%2Fcb • • **code_verifier** • PKCE verification code used to prevent code injection attacks. Based on RFC 7636. • String • MAN • E.g. code_verifier=dBjftJeZ4CVP-mB92K27uhbUJU1p1r_wW1gFWFOEjXk

• **code_verifier** • PKCE verification code used to prevent code injection attacks. Based on RFC 7636. • String • MAN • E.g. code_verifier=dBjftJeZ4CVP-mB92K27uhbUJU1p1r_wW1gFWFOEjXk

code_verifier • PKCE verification code used to prevent code injection attacks. Based on RFC 7636. • String • MAN • E.g. code_verifier=dBjftJeZ4CVP-mB92K27uhbUJU1p1r_wW1gFWFOEjXk

PKCE verification code used to prevent code injection attacks. Based on RFC 7636. • String • MAN • E.g. code_verifier=dBjftJeZ4CVP-mB92K27uhbUJU1p1r_wW1gFWFOEjXk

String • MAN • E.g. code_verifier=dBjftJeZ4CVP-mB92K27uhbUJU1p1r_wW1gFWFOEjXk

MAN • E.g. code_verifier=dBjftJeZ4CVP-mB92K27uhbUJU1p1r_wW1gFWFOEjXk

E.g. code_verifier=dBjftJeZ4CVP-mB92K27uhbUJU1p1r_wW1gFWFOEjXk

• •

•

Header

No additional fields are specified.

Body

Fields are not sent in the body.

3.5.2.2 Response OK

Response if the request has been processed correctly. The result of the request is an access token sent by the HUB to the PSU.

Body

Field • **Description** • **Type** • **Man.** • **Format** • • **access_token** • Access token issued by the HUB and joined to the scope that was requested in the request and confirmed by the PSU. • String • MAN • ^.{1,64}\$

Description • **Type** • **Man.** • **Format** • • **access_token** • Access token issued by the HUB and joined to the scope that was requested in the request and confirmed by the PSU. • String • MAN • ^.{1,64}\$

Type • **Man.** • **Format** • • **access_token** • Access token issued by the HUB and joined to the scope that was requested in the request and confirmed by the PSU. • String • MAN • ^.{1,64}\$

Man. • **Format** • • **access_token** • Access token issued by the HUB and joined to the scope that was requested in the request and confirmed by the PSU. • String • MAN • ^.{1,64}\$

Format • • **access_token** • Access token issued by the HUB and joined to the scope that was requested in the request and confirmed by the PSU. • String • MAN • ^.{1,64}\$

• **access_token** • Access token issued by the HUB and joined to the scope that was requested in the request and confirmed by the PSU. • String • MAN • ^.{1,64}\$

access_token • Access token issued by the HUB and joined to the scope that was requested in the request and confirmed by the PSU. • String • MAN • ^.{1,64}\$

Access token issued by the HUB and joined to the scope

that was requested in the request and confirmed by the PSU. • String • MAN • ^.{1,64}\$

String • MAN • ^.{1,64}\$

MAN • ^.{1,64}\$

^{1,64}\$

E.g.

"access_token": "2YotnFZFEjr1zCsicMWpAA" • **token_type**

pe • Type of token issued. Will take the value

"Bearer". • String • MAN • E.g.

"token_type": "Bearer" • • **expires_in** • Life of the access token in seconds. • Integer • OPT • E.g.

"expires_in": 300 • • **refresh_token** • Refresh token.

May be used to obtain a new access token if it has

expired. • String • OPT • ^.{1,64}\$

• **token_type** • Type of token issued. Will take the value "Bearer". • String • MAN • E.g.

"token_type": "Bearer" • • **expires_in** • Life of the access token in seconds. • Integer • OPT • E.g.

"expires_in": 300 • • **refresh_token** • Refresh token.

May be used to obtain a new access token if it has

expired. • String • OPT • ^.{1,64}\$

token_type • Type of token issued. Will take the value "Bearer". • String • MAN • E.g.

"token_type": "Bearer" • • **expires_in** • Life of the access token in seconds. • Integer • OPT • E.g.

"expires_in": 300 • • **refresh_token** • Refresh token.

May be used to obtain a new access token if it has

expired. • String • OPT • ^.{1,64}\$

Type of token issued. Will take the value

"Bearer". • String • MAN • E.g.

"token_type": "Bearer" • • **expires_in** • Life of the access token in seconds. • Integer • OPT • E.g.

"expires_in": 300 • • **refresh_token** • Refresh token.

May be used to obtain a new access token if it has

expired. • String • OPT • ^.{1,64}\$

String • MAN • E.g.

"token_type": "Bearer" • • **expires_in** • Life of the access token in seconds. • Integer • OPT • E.g.

"expires_in": 300 • • **refresh_token** • Refresh token.

May be used to obtain a new access token if it has

expired. • String • OPT • ^.{1,64}\$

MAN• E.g. "token_type":"Bearer"• • **expires_in**• Life of the access token in seconds. • Integer• OPT• E.g. "expires_in":300• • **refresh_token**• Refresh token. May be used to obtain a new access token if it has expired. • String• OPT• ^.{1,64}\$

E.g. "token_type":"Bearer"• • **expires_in**• Life of the access token in seconds. • Integer• OPT• E.g. "expires_in":300• • **refresh_token**• Refresh token. May be used to obtain a new access token if it has expired. • String• OPT• ^.{1,64}\$

• **expires_in**• Life of the access token in seconds. • Integer• OPT• E.g. "expires_in":300• • **refresh_token**• Refresh token. May be used to obtain a new access token if it has expired. • String• OPT• ^.{1,64}\$

expires_in• Life of the access token in seconds. • Integer• OPT• E.g. "expires_in":300• • **refresh_token**• Refresh token. May be used to obtain a new access token if it has expired. • String• OPT• ^.{1,64}\$

Life of the access token in seconds. • Integer• OPT• E.g. "expires_in":300• • **refresh_token**• Refresh token. May be used to obtain a new access token if it has expired. • String• OPT• ^.{1,64}\$

Integer• OPT• E.g. "expires_in":300• • **refresh_token**• Refresh token. May be used to obtain a new access token if it has expired. • String• OPT• ^.{1,64}\$

OPT• E.g. "expires_in":300• • **refresh_token**• Refresh token. May be used to obtain a new access token if it has expired. • String• OPT• ^.{1,64}\$

E.g. "expires_in":300• • **refresh_token**• Refresh token. May be used to obtain a new access token if it has expired. • String• OPT• ^.{1,64}\$

• **refresh_token**• Refresh token. May be used to obtain a new access token if it has expired. • String• OPT• ^.{1,64}\$

refresh_token• Refresh token. May be used to obtain a new access token if it has expired. • String• OPT• ^.{1,64}\$

Refresh token. May be used to obtain a new access token if it has expired. • String • OPT • ^.{1,64}\$

String • OPT • ^.{1,64}\$

OPT • ^.{1,64}\$

^{1,64}\$

E.g. "refresh_token": "tGzv3JOkF0XG5Qx2TIKWIA" • •

•

3.5.2.3 Error response

Response if there has been any error in the request. It is the result of the request for an access token made by the TPP to the HUB.

Body

Field • Description • Type • Man. • Format • • error •

Description • Type • Man. • Format • • error • Code that indicates the error that has occurred. For more return codes see the annexes. • String • MAN • E.g. "error": "invalid_request" • •

Type • Man. • Format • • error • Code that indicates the error that has occurred. For more return codes see the annexes. • String • MAN • E.g. "error": "invalid_request" • •

Man. • Format • • error • Code that indicates the error that has occurred. For more return codes see the annexes. • String • MAN • E.g. "error": "invalid_request" • •

Format • • error • Code that indicates the error that has occurred. For more return codes see the annexes. • String • MAN • E.g. "error": "invalid_request" • •

• **error •** Code that indicates the error that has occurred. For more return codes see the annexes. • String • MAN • E.g. "error": "invalid_request" • •

error • Code that indicates the error that has occurred. For more return codes see the annexes. • String • MAN • E.g.

"error": "invalid_request" • •
Code that indicates the error that has occurred. For more return codes see the annexes. • String • MAN • E.g. "error": "invalid_request" • •
String • MAN • E.g. "error": "invalid_request" • •
MAN • E.g. "error": "invalid_request" • •
E.g. "error": "invalid_request" • •
•

3.5.2.4 Examples

Example of request

POST /token HTTP/1.1
Host: <https://www.hub.com/aspsp-name>
Content-Type: application/x-www-form-urlencoded
grant_type=authorization_code&client_id=PSDES-BDE-3DFD246&code=Sp1x10BeZQQYbYS6WxSbIA&redirect_uri=http%3A%2F%2Fwww%2Etp%2Ecom%2Fcb&code_verifier=dBjftJeZ4CVP-mB92K27uhbUJU1plr_wW1gFWFOEjXk

Example of OK response

HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8
Cache-Control: no-store
Pragma: no-cache
{
 "access_token": "2YotnFZFEjrlzCsicMWpAA",
 "token_type": "Bearer",
 "expires_in": 3600,
 "refresh_token": "tGzv3JOkF0XG5Qx2TlKWIA"
}

Example of NOK response

HTTP/1.1 400 Bad Request
Content-Type: application/json; charset=UTF-8
Cache-Control: no-store

```
Pragma: no-cache

{
    "error": "invalid_request"
}
```

3.6 Token renewal request

This service is used when the HUB reports that the access_token has expired. Using this request you can refresh the access_token by sending the refresh_token associated with the expired access_token.

3.6.1 Request

Endpoint

POST {provider}/{aspsp}/token

Path

Field • **Description** • **Type** • **Mand.** • **Format** • **provider** • URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • **grant_type** • Must take the value of "refresh_token" • String • MAN • E.g. grant_type=refresh_token • **client_id** • organizationId entifier" provided in the eIDAS certificate formed as:

Description • **Type** • **Mand.** • **Format** • **provider** • URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • **grant_type** • Must take the value of "refresh_token" • String • MAN • E.g. grant_type=refresh_token • **client_id** • organizationId entifier" provided in the eIDAS certificate formed as:

Type • **Mand.** • **Format** • **provider** • URL of the HUB where the service is published. • String • MAN • E.g. www.hub.com • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-

name • • **grant_type** • Must take the value of "refresh_token" • String • MAN • E.g.
grant_type=refresh_token • • **client_id** • organizationId
entifier" provided in the eIDAS certificate formed as:

Mand. • **Format** • • **provider** • URL of the HUB where the service is published. • String • MAN • E.g.
www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **grant_type** • Must take the value of "refresh_token" • String • MAN • E.g.
grant_type=refresh_token • • **client_id** • organizationId
entifier" provided in the eIDAS certificate formed as:

Format • • **provider** • URL of the HUB where the service is published. • String • MAN • E.g.
www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **grant_type** • Must take the value of "refresh_token" • String • MAN • E.g.
grant_type=refresh_token • • **client_id** • organizationId
entifier" provided in the eIDAS certificate formed as:

• **provider** • URL of the HUB where the service is published. • String • MAN • E.g.
www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **grant_type** • Must take the value of "refresh_token" • String • MAN • E.g.
grant_type=refresh_token • • **client_id** • organizationId
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provider • URL of the HUB where the service is published. • String • MAN • E.g.
www.hub.com • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **grant_type** • Must take the value of "refresh_token" • String • MAN • E.g.
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String• MAN• E.g. www.hub.com• • **aspsp**• Name of the ASPSP to which the request is made.
• String• MAN• E.g. aspsp-name• • **grant_type**• Must take the value of "refresh_token"
• String• MAN• E.g. grant_type=refresh_token• • **client_id**• organizationId entifier" provided in the eIDAS certificate formed as:

MAN• E.g. www.hub.com• • **aspsp**• Name of the ASPSP to which the request is made.
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E.g. www.hub.com• • **aspsp**• Name of the ASPSP to which the request is made.
• String• MAN• E.g. aspsp-name• • **grant_type**• Must take the value of "refresh_token"
• String• MAN• E.g. grant_type=refresh_token• • **client_id**• organizationId entifier" provided in the eIDAS certificate formed as:

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• String• MAN• E.g. grant_type=refresh_token• • **client_id**• organizationId entifier" provided in the eIDAS certificate formed as:

aspsp• Name of the ASPSP to which the request is made.
• String• MAN• E.g. aspsp-name• • **grant_type**• Must take the value of "refresh_token"
• String• MAN• E.g. grant_type=refresh_token• • **client_id**• organizationId entifier" provided in the eIDAS certificate formed as:

Name of the ASPSP to which the request is made.
• String• MAN• E.g. aspsp-name• • **grant_type**• Must take the value of "refresh_token"
• String• MAN• E.g. grant_type=refresh_token• • **client_id**• organizationId entifier" provided in the eIDAS certificate formed as:

String• MAN• E.g. aspsp-name• • **grant_type**• Must take the value of "refresh_token"
• String• MAN• E.g. grant_type=refresh_token• • **client_id**• organizationId

entifier” provided in the eIDAS certificate formed as:

MAN• E.g. aspsp-name• • **grant_type**• Must take the value of "refresh_token"• String• MAN• E.g. grant_type=refresh_token• • **client_id**• organizationId entifier” provided in the eIDAS certificate formed as:

E.g. aspsp-name• • **grant_type**• Must take the value of "refresh_token"• String• MAN• E.g. grant_type=refresh_token• • **client_id**• organizationId entifier” provided in the eIDAS certificate formed as:

• **grant_type**• Must take the value of "refresh_token"• String• MAN• E.g. grant_type=refresh_token• • **client_id**• organizationId entifier” provided in the eIDAS certificate formed as:

grant_type• Must take the value of "refresh_token"• String• MAN• E.g. grant_type=refresh_token• • **client_id**• organizationId entifier” provided in the eIDAS certificate formed as:

Must take the value of "refresh_token"• String• MAN• E.g. grant_type=refresh_token• • **client_id**• organizationId entifier” provided in the eIDAS certificate formed as:

String• MAN• E.g. grant_type=refresh_token• • **client_id**• organizationId entifier” provided in the eIDAS certificate formed as:

MAN• E.g. grant_type=refresh_token• • **client_id**• organizationId entifier” provided in the eIDAS certificate formed as:

E.g. grant_type=refresh_token• • **client_id**• organizationId entifier” provided in the eIDAS certificate formed as:

• **client_id**• organizationIdentifier” provided in the eIDAS certificate formed as:

client_id• organizationIdentifier” provided in the eIDAS certificate formed as:

organizationIdentifier” provided in the eIDAS certificate formed as:

- PSD
- 2 characters from the NCA country code (according

to ISO 3166)

- Carácter "-"
- 2-8 characters for the NCA identifier (A-Z in upper case)
- Carácter "-"
- PSP identifier • String • MAN • ^.{1,70}\$

String • MAN • ^.{1,70}\$

MAN • ^.{1,70}\$

^.{1,70}\$

E.g. client_id=PSDES-BDE-

3DFD246 • • **refresh_token** • The refresh token necessary to be able to obtain an unexpired access_token. • String • MAN • ^.{1,64}\$

• **refresh_token** • The refresh token necessary to be able to obtain an unexpired access_token. • String • MAN • ^.{1,64}\$

refresh_token • The refresh token necessary to be able to obtain an unexpired access_token. • String • MAN • ^.{1,64}\$

The refresh token necessary to be able to obtain an unexpired access_token. • String • MAN • ^.{1,64}\$

String • MAN • ^.{1,64}\$

MAN • ^.{1,64}\$

^.{1,64}\$

E.g. refresh_token=tGzv3JOkF0XG5Qx2TIKWIA • •

•

Header

No additional data are specified.

Body

No additional data are specified.

3.6.2 Response

Field • **Description** • **Type** • **Man.** • **Format** • • **access_token** • Access token issued by the HUB and joined to the scope that was requested in the request and confirmed by the PSU. • String • MAN • ^.{1,64}\$

Description • **Type** • **Man.** • **Format** • • **access_token** • Access token issued by the HUB and joined to the scope that was requested in the request and confirmed by the PSU. • String • MAN • ^.{1,64}\$

Type • **Man.** • **Format** • • **access_token** • Access token issued by the HUB and joined to the scope that was requested in the request and confirmed by the PSU. • String • MAN • ^.{1,64}\$

Man. • **Format** • • **access_token** • Access token issued by the HUB and joined to the scope that was requested in the request and confirmed by the PSU. • String • MAN • ^.{1,64}\$

Format • • **access_token** • Access token issued by the HUB and joined to the scope that was requested in the request and confirmed by the PSU. • String • MAN • ^.{1,64}\$

• **access_token** • Access token issued by the HUB and joined to the scope that was requested in the request and confirmed by the PSU. • String • MAN • ^.{1,64}\$

access_token • Access token issued by the HUB and joined to the scope that was requested in the request and confirmed by the PSU. • String • MAN • ^.{1,64}\$

Access token issued by the HUB and joined to the scope that was requested in the request and confirmed by the PSU. • String • MAN • ^.{1,64}\$

String • MAN • ^.{1,64}\$

MAN • ^.{1,64}\$

^.{1,64}\$

E.g.

"access_token": "83kdFZFEjr1zCsicMWBB" • • **token_type** • Type of token issued. Will take the value

"Bearer". • String • MAN • E.g.

"token_type": "Bearer" • • **expires_in** • Life of the access token in seconds. • Integer • OPT • E.g.

"expires_in":300 • • **refresh_token** Refresh token.
May be used to obtain a new access token if it has expired. • String • OPT • ^.{1,64}\$

• **token_type** Type of token issued. Will take the value "Bearer". • String • MAN • E.g.

"token_type":"Bearer" • • **expires_in** Life of the access token in seconds. • Integer • OPT • E.g.

"expires_in":300 • • **refresh_token** Refresh token.
May be used to obtain a new access token if it has expired. • String • OPT • ^.{1,64}\$

token_type Type of token issued. Will take the value "Bearer". • String • MAN • E.g.

"token_type":"Bearer" • • **expires_in** Life of the access token in seconds. • Integer • OPT • E.g.

"expires_in":300 • • **refresh_token** Refresh token.
May be used to obtain a new access token if it has expired. • String • OPT • ^.{1,64}\$

Type of token issued. Will take the value

"Bearer". • String • MAN • E.g.

"token_type":"Bearer" • • **expires_in** Life of the access token in seconds. • Integer • OPT • E.g.

"expires_in":300 • • **refresh_token** Refresh token.
May be used to obtain a new access token if it has expired. • String • OPT • ^.{1,64}\$

String • MAN • E.g.

"token_type":"Bearer" • • **expires_in** Life of the access token in seconds. • Integer • OPT • E.g.

"expires_in":300 • • **refresh_token** Refresh token.
May be used to obtain a new access token if it has expired. • String • OPT • ^.{1,64}\$

MAN • E.g. "token_type":"Bearer" • • **expires_in** Life of the access token in seconds. • Integer • OPT • E.g.

"expires_in":300 • • **refresh_token** Refresh token.
May be used to obtain a new access token if it has expired. • String • OPT • ^.{1,64}\$

E.g. "token_type":"Bearer" • • **expires_in** Life of the access token in seconds. • Integer • OPT • E.g.

"expires_in":300 • • **refresh_token** Refresh token.
May be used to obtain a new access token if it has expired. • String • OPT • ^.{1,64}\$

• **expires_in** Life of the access token in seconds. • Integer • OPT • E.g.

"expires_in":300 • • **refresh_token** • Refresh token.
May be used to obtain a new access token if it has
expired. • String • OPT • ^.{1,64}\$

expires_in • Life of the access token in
seconds. • Integer • OPT • E.g.

"expires_in":300 • • **refresh_token** • Refresh token.
May be used to obtain a new access token if it has
expired. • String • OPT • ^.{1,64}\$

Life of the access token in seconds. • Integer • OPT • E.g.
"expires_in":300 • • **refresh_token** • Refresh token.
May be used to obtain a new access token if it has
expired. • String • OPT • ^.{1,64}\$

Integer • OPT • E.g.

"expires_in":300 • • **refresh_token** • Refresh token.
May be used to obtain a new access token if it has
expired. • String • OPT • ^.{1,64}\$

OPT • E.g. "expires_in":300 • • **refresh_token** • Refresh
token. May be used to obtain a new access token if it
has expired. • String • OPT • ^.{1,64}\$

E.g. "expires_in":300 • • **refresh_token** • Refresh
token. May be used to obtain a new access token if it
has expired. • String • OPT • ^.{1,64}\$

• **refresh_token** • Refresh token. May be used to
obtain a new access token if it has
expired. • String • OPT • ^.{1,64}\$

refresh_token • Refresh token. May be used to obtain
a new access token if it has
expired. • String • OPT • ^.{1,64}\$

Refresh token. May be used to obtain a new access
token if it has expired. • String • OPT • ^.{1,64}\$

String • OPT • ^.{1,64}\$

OPT • ^.{1,64}\$

^.{1,64}\$

E.g. "refresh_token":"28JD3JOkF0NM5Qx2TICCC" • •

•

3.6.3 Examples

```
POST /token HTTP/1.1
Host: https://www.hub.com
Content-Type: application/x-www-form-urlencoded
grant_type=refresh_token&client_id=PSDES-BDE-
3DFD246&refresh_token=tGzv3JOkF0XG5Qx2TlKWIA
```

Example of OK response

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8
Cache-Control: no-store
Pragma: no-cache
{
  "access_token": "83kdFZFEjrlzCsicMWBB",
  "token_type": "Bearer",
  "expires_in": 300,
  "access_token": "28JD3JOkF0NM5Qx2TlCCC"
}
```

3.7 Processes common to the services.

3.7.1 Get SCA status

Message sent by the TPP to the ASPSP through the Hub to request the SCA status of an authorisation sub-resource.

3.7.1.1 Request

Endpoint in the case of Payment Cancellation

GET {provider}/{aspsp}/v1/{payment-service}/{payment-product}/{paymentId}/cancellation-authorisations/{cancellationId}

Path

Field • **Description** • **Type** • **Man.** • **Format** • **provide**
r • URL of the HUB where the service is published. • String • MAN • E.g.

hub.example.es • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** • Possible values are:

Description • **Type** • **Man.** • **Format** • • **provider** • URL of the HUB where the service is published. • String • MAN • E.g.

hub.example.es • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** • Possible values are:

Type • **Man.** • **Format** • • **provider** • URL of the HUB where the service is published. • String • MAN • E.g.

hub.example.es • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** • Possible values are:

Man. • **Format** • • **provider** • URL of the HUB where the service is published. • String • MAN • E.g.

hub.example.es • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** • Possible values are:

Format • • **provider** • URL of the HUB where the service is published. • String • MAN • E.g.

hub.example.es • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** • Possible values are:

• **provider** • URL of the HUB where the service is published. • String • MAN • E.g.

hub.example.es • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** • Possible values are:

provider • URL of the HUB where the service is published. • String • MAN • E.g.

hub.example.es • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** • Possible values are:

URL of the HUB where the service is published. • String • MAN • E.g.

hub.example.es • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** • Possible values are:

String • MAN • E.g. hub.example.es • • **aspsp** • Name of the ASPSP to which the request is made. • String • MAN • E.g. aspsp-name • • **payment-service** • Possible values are:

MAN• E.g. hub.example.es• • **aspsp**• Name of the ASPSP to which the request is made. • String• MAN• E.g. aspsp-name• • **payment-service**• Possible values are:

E.g. hub.example.es• • **aspsp**• Name of the ASPSP to which the request is made. • String• MAN• E.g. aspsp-name• • **payment-service**• Possible values are:

• **aspsp**• Name of the ASPSP to which the request is made. • String• MAN• E.g. aspsp-name• • **payment-service**• Possible values are:

aspsp• Name of the ASPSP to which the request is made. • String• MAN• E.g. aspsp-name• • **payment-service**• Possible values are:

Name of the ASPSP to which the request is made. • String• MAN• E.g. aspsp-name• • **payment-service**• Possible values are:

String• MAN• E.g. aspsp-name• • **payment-service**• Possible values are:

MAN• E.g. aspsp-name• • **payment-service**• Possible values are:

E.g. aspsp-name• • **payment-service**• Possible values are:

• **payment-service**• Possible values are:

payment-service• Possible values are:

Possible values are:

- payments
- bulk-payments
- periodic-payments• String• COND• E.g.

{provider}/v1/payments• • **payment-product**• Payment product to be used. List of supported products:

String• COND• E.g.

{provider}/v1/payments• • **payment-product**• Payment product to be used. List of supported products:

COND• E.g. {provider}/v1/payments• • **payment-product**• Payment product to be used. List of supported products:

E.g. {provider}/v1/payments• • **payment-product**• Payment product to be used. List of supported products:

• **payment-product**• Payment product to be used. List of supported products:

payment-product• Payment product to be used. List of supported products:

Payment product to be used. List of supported products:

- sepa-credit-transfers
- target-2-payments
- cross-border-credit-transfers• String• COND• E.g. {provider}/v1/payments/sepa-credit-transfers/• • **paymentId**, • Identifier of the resource that references the payment initiation or consent• String• MAN• ^.{1,36}\$

String• COND• E.g. {provider}/v1/payments/sepa-credit-transfers/• • **paymentId**, • Identifier of the resource that references the payment initiation or consent• String• MAN• ^.{1,36}\$

COND• E.g. {provider}/v1/payments/sepa-credit-transfers/• • **paymentId**, • Identifier of the resource that references the payment initiation or consent• String• MAN• ^.{1,36}\$

E.g. {provider}/v1/payments/sepa-credit-transfers/• • **paymentId**, • Identifier of the resource that references the payment initiation or consent• String• MAN• ^.{1,36}\$

- **paymentId**, • Identifier of the resource that references the payment initiation or consent• String• MAN• ^.{1,36}\$

paymentId, • Identifier of the resource that references the payment initiation or consent• String• MAN• ^.{1,36}\$

Identifier of the resource that references the payment initiation or consent• String• MAN• ^.{1,36}\$

String• MAN• ^.{1,36}\$

MAN• ^.{1,36}\$

^{1,36}\$

E.g.123-qwe-456• • **cancellationId**• Identifier of the sub-resource associated with the payment cancellation. • String• COND• ^.{1,36}\$

- **cancellationId**• Identifier of the sub-resource associated with the payment cancellation. • String• COND• ^.{1,36}\$

cancellationId Identifier of the sub-resource associated with the payment cancellation. • String • COND • ^.{1,36}\$

Identifier of the sub-resource associated with the payment cancellation. • String • COND • ^.{1,36}\$

String • COND • ^.{1,36}\$

COND • ^.{1,36}\$

^.{1,36}\$

- •
-

Query parameters

No additional fields are specified.

Header

Field • Description • Type • Man. • Format • X-Request-ID ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

Description • Type • Man. • Format • X-Request-ID ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Type • Man. • Format • X-Request-ID ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

Man. • Format • X-Request-ID ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

Format • X-Request-ID ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

• **X-Request-ID** ID of the request, unique to the call, as determined by the initiating party.

• String • MAN • **UUID**

X-Request-ID ID of the request, unique to the call, as determined by the initiating party.

- String • MAN • **UUID**

ID of the request, unique to the call, as determined by the initiating party. • String • MAN • **UUID**

String • MAN • **UUID**

MAN • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7 • **Authorisation** • Bearer Token.

Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

- **Authorisation** • Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

Authorisation • Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

Bearer Token. Obtained in a prior authentication on OAuth2. • String • MAN • E.g.

String • MAN • E.g.

MAN • E.g.

E.g.

Authorisation: Bearer

2YotnFZFEjr1zCsicMWpAA • **PSU-IP-Address** • The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

- **PSU-IP-Address** • The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

PSU-IP-Address • The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

The forwarded IP Address header field consists of the corresponding HTTP request IP Address field

between PSU and TPP.

If not available, the TPP shall use the IP Address used

by the TPP when submitting this request.

• String• OPT• ^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$

String• OPT• ^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$

OPT• ^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$
^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$

E.g.

PSU-IP-Address: 192.168.16.5 • • **PSU-IP-Port** The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available • String• OPT• ^\\d{1,5}\$

• **PSU-IP-Port** The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available • String• OPT• ^\\d{1,5}\$

PSU-IP-Port The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available • String• OPT• ^\\d{1,5}\$

The forwarded IP Port header field consists of the corresponding HTTP request IP Port field between PSU and TPP, if available • String• OPT• ^\\d{1,5}\$

String• OPT• ^\\d{1,5}\$

OPT• ^\\d{1,5}\$

^\\d{1,5}\$

E.g. PSU-IP-Port: 443 • • **PSU-Accept** The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available. • String• OPT• ^.{1,50}\$

• **PSU-Accept** The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

• String• OPT• ^.{1,50}\$

PSU-Accept The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

• String• OPT• ^.{1,50}\$

The forwarded Accept header fields consist of the corresponding HTTP request Accept header fields between PSU and TPP, if available.

• String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept: application/json • • **PSU-Accept-Charset** • Accept charset header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

• **PSU-Accept-Charset** • Accept charset header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

PSU-Accept-Charset • Accept charset header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

Accept charset header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept-Charset: utf-8 • • **PSU-Accept-Encoding** • Accept encoding header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

• **PSU-Accept-Encoding** • Accept encoding header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

PSU-Accept-Encoding • Accept encoding header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

Accept encoding header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept-Encoding: gzip • • **PSU-Accept-Language** • Accept language header of the HTTP

request between PSU and the
TPP. • String • OPT • ^.{1,50}\$

• **PSU-Accept-Language** • Accept language header of
the HTTP request between PSU and the
TPP. • String • OPT • ^.{1,50}\$

PSU-Accept-Language • Accept language header of
the HTTP request between PSU and the
TPP. • String • OPT • ^.{1,50}\$

Accept language header of the HTTP request between
PSU and the TPP. • String • OPT • ^.{1,50}\$

String • OPT • ^.{1,50}\$

OPT • ^.{1,50}\$

^{1,50}\$

E.g. PSU-Accept-Language: es-ES • • **PSU-User-Agent** • The forwarded Agent header field of the HTTP
request between PSU and TPP, if available.

• String • OPT • E.g.

• **PSU-User-Agent** • The forwarded Agent header field
of the HTTP request between PSU and TPP, if available.

• String • OPT • E.g.

PSU-User-Agent • The forwarded Agent header field of
the HTTP request between PSU and TPP, if available.

• String • OPT • E.g.

The forwarded Agent header field of the HTTP request
between PSU and TPP, if available. • String • OPT • E.g.

String • OPT • E.g.

OPT • E.g.

E.g.

PSU-User-Agent: Mozilla/5.0 (Windows; U; Windows NT
6.1; en-US; rv:1.9.1.5) Gecko/20091102 Firefox/3.5.5
(.NET CLR 3.5.30729) • • **PSU-Http-Method** • HTTP
method used at the PSU – TPP interface, if available.

• **PSU-Http-Method** • HTTP method used at the PSU –
TPP interface, if available.

PSU-Http-Method • HTTP method used at the PSU –
TPP interface, if available.

HTTP method used at the PSU – TPP interface, if

available.

Valid values are:

- GET
- POST
- PUT
- PATCH
- DELETE
- • String • OPT • E.g. PSU-Http-Method: GET • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

String • OPT • E.g. PSU-Http-Method: GET • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

OPT • E.g. PSU-Http-Method: GET • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

E.g. PSU-Http-Method: GET • • **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

• **PSU-Device-ID** • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

PSU-Device-ID • UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

UUID (Universally Unique Identifier) for a device, which is used by the PSU, if available.

UUID identifies either a device or a device dependant application installation. In case of an installation identification this ID need to be unaltered until removal from device.

- String • OPT • **UUID**

String • OPT • **UUID**

OPT • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-

fA-F]{4}-[0-9a-fA-F]{12}\$

E.g. PSU-Device-ID: 5b3ab8e8-0fd5-43d2-946e-d75958b172e7 • • **PSU-Geo-Location** • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String • OPT • **RFC 2426**

• **PSU-Geo-Location** • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String • OPT • **RFC 2426**

PSU-Geo-Location • The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available. • String • OPT • **RFC 2426**

The forwarded Geo Location of the corresponding HTTP request between PSU and TPP if available.

• String • OPT • **RFC 2426**

String • OPT • **RFC 2426**

OPT • **RFC 2426**

RFC 2426

^GEO:[\\d]*.[\\d]*[;,.][\\d]*.[\\d]*\$

E.g.

PSU-Geo-Location:

GEO:90.023856;25.345963 • • **Digest** • Is contained if and only if the "Signature" element is contained in the header of the request.

• **Digest** • Is contained if and only if the "Signature" element is contained in the header of the request.

Digest • Is contained if and only if the "Signature" element is contained in the header of the request.

Is contained if and only if the "Signature" element is contained in the header of the request.

See 6.1 Signature for more information.

• String • MAN • ^.{1,100}\$

String • MAN • ^.{1,100}\$

MAN • ^.{1,100}\$

^.{1,100}\$

E.g. Digest: SHA-

256=NzdmZjA4YjY5M2M2NDYyMmVjOWFmMGNmYTZiN
TU3MjVmNDI4NTRIMzJkYzE3ZmNmMDE3ZGFmMjhhNTc
5OTU3OQ== • • **Signature** • A signature of the request
by the TPP on application level.

• **Signature** • A signature of the request by the TPP on
application level.

Signature • A signature of the request by the TPP on
application level.

A signature of the request by the TPP on application
level.

See 6.1 Signature for more information.

• String • MAN • See annexes

String • MAN • See annexes

MAN • See annexes

See annexes

• • **TPP-Signature-Certificate** • The certificate used
for signing the request, in base64
encoding • String • MAN • ^.{1,5000}\$

• **TPP-Signature-Certificate** • The certificate used for
signing the request, in base64
encoding • String • MAN • ^.{1,5000}\$

TPP-Signature-Certificate • The certificate used for
signing the request, in base64
encoding • String • MAN • ^.{1,5000}\$

The certificate used for signing the request, in base64
encoding • String • MAN • ^.{1,5000}\$

String • MAN • ^.{1,5000}\$

MAN • ^.{1,5000}\$

^.{1,5000}\$

E.g. TPP-Signature-Certificate:

MIIHgzCCBmugAwIBAgIIZzZvBQlt0UcwDQYJ.....KoZI
hvcNAQELBQAuSTELMAkGA1UEBhMCVVMxEzARBgNVBA

• •

•

Body

No additional data are specified.

3.7.1.2 Response

Header

Field • **Description** • **Type** • **Man.** • **Format** • **X-Request-ID** • Unique identifier of the transaction assigned by the TPP and submitted through the HUB to the ASPSP • String • MAN • **UUID**

Description • **Type** • **Man.** • **Format** • **X-Request-ID** • Unique identifier of the transaction assigned by the TPP and submitted through the HUB to the ASPSP • String • MAN • **UUID**

Type • **Man.** • **Format** • **X-Request-ID** • Unique identifier of the transaction assigned by the TPP and submitted through the HUB to the ASPSP • String • MAN • **UUID**

Man. • **Format** • **X-Request-ID** • Unique identifier of the transaction assigned by the TPP and submitted through the HUB to the ASPSP • String • MAN • **UUID**

Format • **X-Request-ID** • Unique identifier of the transaction assigned by the TPP and submitted through the HUB to the ASPSP • String • MAN • **UUID**

• **X-Request-ID** • Unique identifier of the transaction assigned by the TPP and submitted through the HUB to the ASPSP • String • MAN • **UUID**

X-Request-ID • Unique identifier of the transaction assigned by the TPP and submitted through the HUB to the ASPSP • String • MAN • **UUID**

Unique identifier of the transaction assigned by the TPP and submitted through the HUB to the ASPSP • String • MAN • **UUID**

String • MAN • **UUID**

MAN • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-

d75958b172e7 • •

•

Body

Field • Description • Type • Man. • Format • • scaStatus •

Description • Type • Man. • Format • • scaStatus • SCA

status • String • MAN • E.g. "scaStatus":

"finalised" • • **psuMessage** • Text sent to TPP through the HUB to be shown to PSU. • String • OPT • ^.{1,512}\$

Type • Man. • Format • • scaStatus • SCA

status • String • MAN • E.g. "scaStatus":

"finalised" • • **psuMessage** • Text sent to TPP through the HUB to be shown to PSU. • String • OPT • ^.{1,512}\$

Man. • Format • • scaStatus • SCA

status • String • MAN • E.g. "scaStatus":

"finalised" • • **psuMessage** • Text sent to TPP through the HUB to be shown to PSU. • String • OPT • ^.{1,512}\$

Format • • scaStatus • SCA status • String • MAN • E.g.

"scaStatus": "finalised" • • **psuMessage** • Text sent to TPP through the HUB to be shown to PSU. • String • OPT • ^.{1,512}\$

• **scaStatus** • SCA status • String • MAN • E.g.

"scaStatus": "finalised" • • **psuMessage** • Text sent to TPP through the HUB to be shown to PSU. • String • OPT • ^.{1,512}\$

scaStatus • SCA status • String • MAN • E.g.

"scaStatus": "finalised" • • **psuMessage** • Text sent to TPP through the HUB to be shown to PSU. • String • OPT • ^.{1,512}\$

SCA status • String • MAN • E.g. "scaStatus":

"finalised" • • **psuMessage** • Text sent to TPP through the HUB to be shown to PSU. • String • OPT • ^.{1,512}\$

String • MAN • E.g. "scaStatus":

"finalised" • • **psuMessage** • Text sent to TPP through the HUB to be shown to PSU. • String • OPT • ^.{1,512}\$

MAN • E.g. "scaStatus":

"finalised" • • **psuMessage** • Text sent to TPP through

the HUB to be shown to PSU. • String • OPT • ^.{1,512}\$

E.g. "scaStatus": "finalised" • • **psuMessage** • Text sent to TPP through the HUB to be shown to

PSU. • String • OPT • ^.{1,512}\$

• **psuMessage** • Text sent to TPP through the HUB to be shown to PSU. • String • OPT • ^.{1,512}\$

psuMessage • Text sent to TPP through the HUB to be shown to PSU. • String • OPT • ^.{1,512}\$

Text sent to TPP through the HUB to be shown to PSU. • String • OPT • ^.{1,512}\$

String • OPT • ^.{1,512}\$

OPT • ^.{1,512}\$

^{1,512}\$

E.g. "psuMessage": "Information for the

PSU" • • **tppMessages** • Message for the TPP sent through the HUB. • List<TppMessage> • OPT • E.g.

"tppMessages": [...] • •

• **tppMessages** • Message for the TPP sent through the HUB. • List<TppMessage> • OPT • E.g. "tppMessages": [...] • •

tppMessages • Message for the TPP sent through the HUB. • List<TppMessage> • OPT • E.g. "tppMessages": [...] • •

Message for the TPP sent through the HUB. • List<TppMessage> • OPT • E.g. "tppMessages": [...] • •

List<TppMessage> • OPT • E.g. "tppMessages": [...] • •

OPT • E.g. "tppMessages": [...] • •

E.g. "tppMessages": [...] • •

•

3.7.1.3 Examples

Example of request

GET <https://hub.example.es/aspsp-name/v1/payments/sepa-credit-transfers/123-qwe-456/cancellation-authorisations/123asd456>

X-Request-ID: 96201400-6ff9-11e8-adc0-fa7ae01bbebc

Authorization: Bearer 2YotnFZFEjrlzCsicMWpAA

```
PSU-IP-Address: 192.168.8.16
PSU-IP-Port: 443
PSU-Accept: application/json
PSU-Accept-Charset: utf-8
PSU-Accept-Encoding: gzip
PSU-Accept-Language: es-ES
PSU-User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:54.0) Gecko/20100101 Firefox/54.0
PSU-Http-Method: GET
PSU-Device-ID: f8b3feda-6fe3-11e8-adc0-fa7ae01bbebc
PSU-GEO-Location: GEO:12.526347;54.649862
Date: Sun, 26 Sep 2017 15:02:48 GMT
```

Example of response

```
HTTP/1.1 200 OK
X-Request-ID: 96201400-6ff9-11e8-adc0-fa7ae01bbebc
Date: Sun, 26 Sep 2017 15:02:50 GMT
Content-Type: application/json
{
  "scaStatus": "finalised"
}
```

4. DESCRIPTION OF VALUE-ADDED SERVICES

4.1 SVA: payment initiation with list of available accounts for PISP

This service allows the TPP to initiate a payment without entering information on the debtor's account "debtorAccount" and provides the list of accounts during the SCA flow so that the PSU can select one.

This value service complements the payment API payment and uses the CORE services to:

- Obtain payment status
- Recover payment initiation information
- Cancel payment initiation

4.1.1 Payment initiation

This message is sent by the TPP to the HUB to initiate payment without entering information on the debtor's account.

4.1.1.1 Request

Endpoint

POST {provider}/{aspsp}/v1/sva/payments/{payment-product}

Path

Field • **Description** • **Type** • **Man.** • **Format** • **provider**

r • URL of the ASPSP where the service is published. • String • MAN • E.g.

aspsp.example.es • **payment-product** • Payment product to be used. List of supported products:

Description • **Type** • **Man.** • **Format** • **provider** • URL of the ASPSP where the service is published. • String • MAN • E.g.

aspsp.example.es • **payment-product** • Payment product to be used. List of supported products:

Type • **Man.** • **Format** • **provider** • URL of the ASPSP where the service is published. • String • MAN • E.g. aspsp.example.es • **payment-product** • Payment product to be used. List of supported products:

Man. • **Format** • **provider** • URL of the ASPSP where the service is published. • String • MAN • E.g. aspsp.example.es • **payment-product** • Payment product to be used. List of supported products:

Format • **provider** • URL of the ASPSP where the service is published. • String • MAN • E.g. aspsp.example.es • **payment-product** • Payment product to be used. List of supported products:

• **provider** • URL of the ASPSP where the service is published. • String • MAN • E.g.

aspsp.example.es • • **payment-product** Payment product to be used. List of supported products:

provider URL of the ASPSP where the service is published. • String • MAN • E.g.

aspsp.example.es • • **payment-product** Payment product to be used. List of supported products:

URL of the ASPSP where the service is published. • String • MAN • E.g.

aspsp.example.es • • **payment-product** Payment product to be used. List of supported products:

String • MAN • E.g. aspsp.example.es • • **payment-product** Payment product to be used. List of supported products:

MAN • E.g. aspsp.example.es • • **payment-product** Payment product to be used. List of supported products:

E.g. aspsp.example.es • • **payment-product** Payment product to be used. List of supported products:

• **payment-product** Payment product to be used. List of supported products:

payment-product Payment product to be used. List of supported products:

Payment product to be used. List of supported products:

- sepa-credit-transfers
- target-2-payments
- cross-border-credit-transfers • String • MAN • E.g. {provider}/{aspsp}/v1/payments/sepa-credit-transfers/ • •

String • MAN • E.g. {provider}/{aspsp}/v1/payments/sepa-credit-transfers/ • •

MAN • E.g. {provider}/{aspsp}/v1/payments/sepa-credit-transfers/ • •

E.g. {provider}/{aspsp}/v1/payments/sepa-credit-transfers/ • •

•

Query parameters

No additional parameters are specified for this request

Header

Field • **Description** • **Type** • **Man.** • **Format** • **Content-Type**
Type • Value: application/json • String • MAN • Content-Type: application/json • • **HUB- Transaction -ID** • The unique identifier of the operation assigned by the HUB.

Description • **Type** • **Man.** • **Format** • **Content-Type**
Type • Value: application/json • String • MAN • Content-Type: application/json • • **HUB- Transaction -ID** • The unique identifier of the operation assigned by the HUB.

Type • **Man.** • **Format** • **Content-Type** • Value: application/json • String • MAN • Content-Type: application/json • • **HUB- Transaction -ID** • The unique identifier of the operation assigned by the HUB.

Man. • **Format** • **Content-Type** • Value: application/json • String • MAN • Content-Type: application/json • • **HUB- Transaction -ID** • The unique identifier of the operation assigned by the HUB.

Format • **Content-Type** • Value: application/json • String • MAN • Content-Type: application/json • • **HUB- Transaction -ID** • The unique identifier of the operation assigned by the HUB.

• **Content-Type** • Value: application/json • String • MAN • Content-Type: application/json • • **HUB- Transaction -ID** • The unique identifier of the operation assigned by the HUB.

Content-Type • Value: application/json • String • MAN • Content-Type: application/json • • **HUB- Transaction -ID** • The unique identifier of the operation assigned by the HUB.

String • MAN • Content-Type: application/json • • **HUB- Transaction -ID** • The unique identifier of the operation assigned by the HUB.

MAN • Content-Type: application/json • • **HUB- Transaction -ID** • The unique identifier of the operation assigned by the HUB.

Content-Type: application/json • • **HUB- Transaction -ID** • The unique identifier of the operation assigned by the HUB.

• **HUB- Transaction -ID** • The unique identifier of the operation assigned by the HUB.

HUB- Transaction -ID • The unique identifier of the operation assigned by the HUB.

The unique identifier of the operation assigned by the HUB.

Note: whenever the request is from the Hub you will be

informed. • String • OPT • **UUID**
String • OPT • **UUID**
OPT • **UUID**
UUID
^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

Ej:

HUB-Transaction-ID: 5b3ab8e8-0fd5-43d2-946e-d75958b172e7 • **HUB-Request-ID** Unique identifier for the request assigned by the HUB. Relates the HTTP request between HUB and ASPSP.

- **HUB-Request-ID** Unique identifier for the request assigned by the HUB. Relates the HTTP request between HUB and ASPSP.

HUB-Request-ID Unique identifier for the request assigned by the HUB. Relates the HTTP request between HUB and ASPSP.

Unique identifier for the request assigned by the HUB. Relates the HTTP request between HUB and ASPSP.

Note: whenever the request is from the Hub you will be informed

• String • OPT • **UUID**
String • OPT • **UUID**
OPT • **UUID**
UUID
^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

Ej:

HUB-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7 • **X-Request-ID** Unique identifier of the operation assigned by the TPP and forwarded through the HUB to the ASPSP

- **X-Request-ID** Unique identifier of the operation assigned by the TPP and forwarded through the HUB to the ASPSP

X-Request-ID Unique identifier of the operation assigned by the TPP and forwarded through the HUB to the ASPSP

Unique identifier of the operation assigned by the TPP and forwarded through the HUB to the ASPSP

• String • MAN • **UUID**
String • MAN • **UUID**
MAN • **UUID**
UUID
^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

Ej:

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7 • **TPP-HUB-ID** Identifier of the TPP that communicates through the HUB. TPP registration number. • String • OPT • ^.{1,70}\$

• **TPP-HUB-ID** Identifier of the TPP that communicates through the HUB. TPP registration number. • String • OPT • ^.{1,70}\$

TPP-HUB-ID Identifier of the TPP that communicates through the HUB. TPP registration number. • String • OPT • ^.{1,70}\$

Identifier of the TPP that communicates through the HUB. TPP registration number. • String • OPT • ^.{1,70}\$

String • OPT • ^.{1,70}\$

OPT • ^.{1,70}\$

^.{1,70}\$

Ej: TPP-HUB-ID: PSDES-BDE-3DFD21 • **TPP-HUB-Name** The name of the TPP that communicates through the HUB. • String • OPT • ^.{1,140}\$

• **TPP-HUB-Name** The name of the TPP that communicates through the HUB. • String • OPT • ^.{1,140}\$

TPP-HUB-Name The name of the TPP that communicates through the HUB. • String • OPT • ^.{1,140}\$

The name of the TPP that communicates through the HUB. • String • OPT • ^.{1,140}\$

String • OPT • ^.{1,140}\$

OPT • ^.{1,140}\$

^.{1,140}\$

Ej: TPP-HUB-Name: Nombre del TPP • **TPP-HUB-Rol** Roles of the TPP that communicates through the HUB. • List<String> • OPT • Ej: TPP-HUB-Rol: PSP_PI,PSP_AI,PSP_IC • **TPP-HUB-National-Competent-Authority** National competent authority that has provided the Certificate to the TPP that is communicated through the HUB. • String • OP • ^.{1,8}\$

• **TPP-HUB-Rol** Roles of the TPP that communicates through the HUB. • List<String> • OPT • Ej: TPP-HUB-Rol: PSP_PI,PSP_AI,PSP_IC • **TPP-HUB-National-Competent-Authority** National competent authority that has provided the Certificate to the TPP that is communicated through the HUB. • String • OP • ^.{1,8}\$

TPP-HUB-Rol Roles of the TPP that communicates through the HUB. • List<String> • OPT • Ej: TPP-HUB-Rol: PSP_PI,PSP_AI,PSP_IC • **TPP-HUB-National-Competent-Authority** National competent authority that has provided the Certificate to the TPP that is communicated through the HUB. • String • OP • ^.{1,8}\$

Roles of the TPP that communicates through the HUB. • List<String> • OPT • Ej: TPP-HUB-Rol: PSP_PI,PSP_AI,PSP_IC • **TPP-HUB-National-Competent-**

Authority National competent authority that has provided the Certificate to the TPP that is communicated through the HUB. • String • OP • ^.{1,8}\$

List<String> • OPT • Ej: TPP-HUB-Rol:

PSP_PI,PSP_AI,PSP_IC • • **TPP-HUB-National-Competent-Authority** National competent authority that has provided the Certificate to the TPP that is communicated through the HUB. • String • OP • ^.{1,8}\$

OPT • Ej: TPP-HUB-Rol: PSP_PI,PSP_AI,PSP_IC • • **TPP-HUB-National-Competent-Authority** National competent authority that has provided the Certificate to the TPP that is communicated through the HUB. • String • OP • ^.{1,8}\$
Ej: TPP-HUB-Rol: PSP_PI,PSP_AI,PSP_IC • • **TPP-HUB-National-Competent-Authority** National competent authority that has provided the Certificate to the TPP that is communicated through the HUB. • String • OP • ^.{1,8}\$

• **TPP-HUB-National-Competent-Authority** National competent authority that has provided the Certificate to the TPP that is communicated through the HUB. • String • OP • ^.{1,8}\$

TPP-HUB-National-Competent-Authority National competent authority that has provided the Certificate to the TPP that is communicated through the HUB. • String • OP • ^.{1,8}\$

National competent authority that has provided the Certificate to the TPP that is communicated through the HUB. • String • OP • ^.{1,8}\$
String • OP • ^.{1,8}\$
OP • ^.{1,8}\$
^.{1,8}\$

Ej: TPP-HUB-National-Competent-Authority: BDE • • **PSU-ID** The identifier that the PSU uses to identify itself in its ASPSP.

• **PSU-ID** The identifier that the PSU uses to identify itself in its ASPSP.

PSU-ID The identifier that the PSU uses to identify itself in its ASPSP.

The identifier that the PSU uses to identify itself in its ASPSP. It is not content whether an OAuth-based authentication was performed in a previous step or an OAuth-based SCA was performed in a previous AIS service in the same session.
NOT SUPPORTED IN THIS RELEASE

• String • COND • Ej: PSU-ID: 12345678W • • **PSU-ID-Type** PSU-ID type. Necessary in scenarios where the PSU has several PSU-IDs as access possibilities.

String • COND • Ej: PSU-ID: 12345678W • • **PSU-ID-Type** PSU-ID type. Necessary in scenarios where the PSU has several PSU-IDs as access possibilities.

COND • Ej: PSU-ID: 12345678W • • **PSU-ID-Type** PSU-ID

type. Necessary in scenarios where the PSU has several PSU-IDs as access possibilities.

Ej: PSU-ID: 12345678W • • **PSU-ID-Type** • PSU-ID type. Necessary in scenarios where the PSU has several PSU-IDs as access possibilities.

- **PSU-ID-Type** • PSU-ID type. Necessary in scenarios where the PSU has several PSU-IDs as access possibilities.

PSU-ID-Type • PSU-ID type. Necessary in scenarios where the PSU has several PSU-IDs as access possibilities.

PSU-ID type. Necessary in scenarios where the PSU has several PSU-IDs as access possibilities.

NOT SUPPORTED IN THIS RELEASE

- String • COND • Ej: PSU-ID-Type: NIF • • **PSU-Corporate-ID** • Identifier of "company" in the Online Channels.

String • COND • Ej: PSU-ID-Type: NIF • • **PSU-Corporate-ID** • Identifier of "company" in the Online Channels.

COND • Ej: PSU-ID-Type: NIF • • **PSU-Corporate-ID** • Identifier of "company" in the Online Channels.

Ej: PSU-ID-Type: NIF • • **PSU-Corporate-ID** • Identifier of "company" in the Online Channels.

- **PSU-Corporate-ID** • Identifier of "company" in the Online Channels.

PSU-Corporate-ID • Identifier of "company" in the Online Channels.

Identifier of "company" in the Online Channels.
NOT SUPPORTED IN THIS RELEASE

- String • COND • Ej: PSU-Corporate-ID: user@corporate.com • • **PSU-Corporate-ID-Type** • The type of PSU-Corporate-ID required by the ASPSP to identify its content.

String • COND • Ej: PSU-Corporate-ID: user@corporate.com • • **PSU-Corporate-ID-Type** • The type of PSU-Corporate-ID required by the ASPSP to identify its content.

COND • Ej: PSU-Corporate-ID: user@corporate.com • • **PSU-Corporate-ID-Type** • The type of PSU-Corporate-ID required by the ASPSP to identify its content.

Ej: PSU-Corporate-ID: user@corporate.com • • **PSU-Corporate-ID-Type** • The type of PSU-Corporate-ID required by the ASPSP to identify its content.

- **PSU-Corporate-ID-Type** • The type of PSU-Corporate-ID required by the ASPSP to identify its content.

PSU-Corporate-ID-Type • The type of PSU-Corporate-ID required by the ASPSP to identify its content.

The type of PSU-Corporate-ID required by the ASPSP to identify its content.

NOT SUPPORTED IN THIS RELEASE

- String • COND • Ej: PSU-Corporate-ID-Type: email • • **Authorization** • Bearer Token. Obtained in a pre-

authentication over OAuth2

String• COND• Ej: PSU-Corporate-ID-Type:
email• • **Authorization**• Bearer Token. Obtained in a pre-authentication over OAuth2

COND• Ej: PSU-Corporate-ID-Type:
email• • **Authorization**• Bearer Token. Obtained in a pre-authentication over OAuth2

Ej: PSU-Corporate-ID-Type: email• • **Authorization**• Bearer Token. Obtained in a pre-authentication over OAuth2

• **Authorization**• Bearer Token. Obtained in a pre-authentication over OAuth2

Authorization• Bearer Token. Obtained in a pre-authentication over OAuth2

Bearer Token. Obtained in a pre-authentication over OAuth2

• String• MAN• Ej:
String• MAN• Ej:
MAN• Ej:
Ej:

Authorization: Bearer 2YotnFZFEjr1zCsicMWpAA• • **Consent-ID**• This data is contained if the payment initiation transaction is part of a session (AIS/PIS combination). It will contain the consentID of the AIS consent that was made prior to the start of payment. • String• OPT• ^.{1,36}\$

• **Consent-ID**• This data is contained if the payment initiation transaction is part of a session (AIS/PIS combination). It will contain the consentID of the AIS consent that was made prior to the start of payment. • String• OPT• ^.{1,36}\$

Consent-ID• This data is contained if the payment initiation transaction is part of a session (AIS/PIS combination). It will contain the consentID of the AIS consent that was made prior to the start of payment. • String• OPT• ^.{1,36}\$

This data is contained if the payment initiation transaction is part of a session (AIS/PIS combination). It will contain the consentID of the AIS consent that was made prior to the start of payment. • String• OPT• ^.{1,36}\$

String• OPT• ^.{1,36}\$
OPT• ^.{1,36}\$
^.{1,36}\$

Ej: Consent-ID: 7890-asdf-4321• • **PSU-IP-Address**• IP address of the HTTP request between the PSU and the TPP.

• **PSU-IP-Address**• IP address of the HTTP request between the PSU and the TPP.

PSU-IP-Address• IP address of the HTTP request between the PSU and the TPP.

IP address of the HTTP request between the PSU and the TPP.

if it is not available the tpp must use the ip address used by the tpp when it sends this request.

• String • MAN • ^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$
String • MAN • ^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$
MAN • ^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$
^[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}.[0-9]{1,3}\$

Ej:

PSU-IP-Address: 192.168.16.5 • • **PSU-IP-Port** IP port of the HTTP request between the PSU and the TPP if available.

• String • OPT • ^\\d{1,5}\$
• **PSU-IP-Port** IP port of the HTTP request between the PSU and the TPP if available.

• String • OPT • ^\\d{1,5}\$
PSU-IP-Port IP port of the HTTP request between the PSU and the TPP if available.
• String • OPT • ^\\d{1,5}\$
IP port of the HTTP request between the PSU and the TPP if available.

• String • OPT • ^\\d{1,5}\$
String • OPT • ^\\d{1,5}\$
OPT • ^\\d{1,5}\$
^\\d{1,5}\$

Ej: PSU-IP-Port: 443 • • **PSU-Accept** Accept header of the HTTP request between PSU and the TPP.

• String • OPT • ^.{1,50}\$
• **PSU-Accept** Accept header of the HTTP request between PSU and the TPP.

• String • OPT • ^.{1,50}\$
PSU-Accept Accept header of the HTTP request between PSU and the TPP.
• String • OPT • ^.{1,50}\$
Accept header of the HTTP request between PSU and the TPP.

• String • OPT • ^.{1,50}\$
String • OPT • ^.{1,50}\$
OPT • ^.{1,50}\$
^.{1,50}\$

Ej: PSU-Accept: application/json • • **PSU-Accept-Charset** Accept charset header of the HTTP request between PSU and the TPP.

• **PSU-Accept-Charset** Accept charset header of the HTTP request between PSU and the TPP.

PSU-Accept-Charset Accept charset header of the HTTP request between PSU and the TPP.

Accept charset header of the HTTP request between PSU and the TPP.

• String • OP • ^.{1,50}\$
String • OP • ^.{1,50}\$
OP • ^.{1,50}\$
^.{1,50}\$

Ej: PSU-Accept-Charset: utf-8 • • **PSU-Accept-Encoding** Accept encoding header of the HTTP request

- between PSU and the TPP. • String • OPT • ^.{1,50}\$
- **PSU-Accept-Encoding** Accept encoding header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$
 - PSU-Accept-Encoding** Accept encoding header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$
Accept encoding header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$
String • OPT • ^.{1,50}\$
OPT • ^.{1,50}\$
^.{1,50}\$
Ej: PSU-Accept-Encoding: gzip • • **PSU-Accept-Language** Accept language header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$
 - **PSU-Accept-Language** Accept language header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$
 - PSU-Accept-Language** Accept language header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$
Accept language header of the HTTP request between PSU and the TPP. • String • OPT • ^.{1,50}\$
String • OPT • ^.{1,50}\$
OPT • ^.{1,50}\$
^.{1,50}\$
Ej: PSU-Accept-Language: es-ES • • **PSU-User-Agent** Browser or operating system of the HTTP request between the PSU and the TPP. • String • OPT • Ej:
 - **PSU-User-Agent** Browser or operating system of the HTTP request between the PSU and the TPP. • String • OPT • Ej:
 - PSU-User-Agent** Browser or operating system of the HTTP request between the PSU and the TPP. • String • OPT • Ej:
Browser or operating system of the HTTP request between the PSU and the TPP. • String • OPT • Ej:
String • OPT • Ej:
OPT • Ej:
Ej:
PSU-User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.5) Gecko/20091102 Firefox/3.5.5 (.NET CLR 3.5.30729) • • **PSU-Http-Method** HTTP method used in the interface between PSU and TPP. Allowed values: • POST
 - **PSU-Http-Method** HTTP method used in the interface between PSU and TPP. Allowed values: • POST
 - PSU-Http-Method** HTTP method used in the interface between PSU and TPP. Allowed values: • POST
HTTP method used in the interface between PSU and TPP. Allowed values: • POST
• GET

- PUT
 - PATCH
 - DELETE
 - String• OPT• Ej: PSU-Http-Method: POST• • **PSU-Device-ID•** UUID (Universally Unique Identifier) for a device.
 - String• OPT• Ej: PSU-Http-Method: POST• • **PSU-Device-ID•** UUID (Universally Unique Identifier) for a device.
 - OPT• Ej: PSU-Http-Method: POST• • **PSU-Device-ID•** UUID (Universally Unique Identifier) for a device.
 - Ej: PSU-Http-Method: POST• • **PSU-Device-ID•** UUID (Universally Unique Identifier) for a device.
 - **PSU-Device-ID•** UUID (Universally Unique Identifier) for a device.
 - PSU-Device-ID•** UUID (Universally Unique Identifier) for a device.
 - UUID (Universally Unique Identifier) for a device.
- The UUID identifies the device or an application installation on a device. This ID should not be modified until the application is uninstalled from the device.

- String• OPT• **UUID**
- String• OPT• **UUID**
- OPT• **UUID**
- UUID**

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$
Ej:

PSU-Device-ID: 5b3ab8e8-0fd5-43d2-946e-d75958b172e7

- • **PSU-Geo-Location•** Location corresponding to the HTTP request between the PSU and the TPP
- **PSU-Geo-Location•** Location corresponding to the HTTP request between the PSU and the TPP

PSU-Geo-Location• Location corresponding to the HTTP request between the PSU and the TPP

Location corresponding to the HTTP request between the PSU and the TPP

- String• OPT• **RFC 2426**
- String• OPT• **RFC 2426**
- OPT• **RFC 2426**
- RFC 2426**

^GEO:[\\d]*.[\\d]*[;,:][\\d]*.[\\d]*\$
Ej:

PSU-Geo-Location: GEO:90.023856;25.345963• • **TPP-Redirect-Preferred•**

- TPP-Redirect-Preferred•** You should always be informed to true
- TPP-Redirect-Preferred•** You should always be informed to true

You should always be informed to true
EMBEDDED AND UNSUPPORTED IN THIS RELEASE

• Boolean• OPT• Ej: TPP-Redirect-Preferred: true• • **TPP-Redirect-URI**• HUB URI where the transaction flow must be redirected after the SCA is terminated by redirect.

Boolean• OPT• Ej: TPP-Redirect-Preferred: true• • **TPP-Redirect-URI**• HUB URI where the transaction flow must be redirected after the SCA is terminated by redirect.

OPT• Ej: TPP-Redirect-Preferred: true• • **TPP-Redirect-URI**• HUB URI where the transaction flow must be redirected after the SCA is terminated by redirect.

Ej: TPP-Redirect-Preferred: true• • **TPP-Redirect-URI**• HUB URI where the transaction flow must be redirected after the SCA is terminated by redirect.

• **TPP-Redirect-URI**• HUB URI where the transaction flow must be redirected after the SCA is terminated by redirect.

TPP-Redirect-URI• HUB URI where the transaction flow must be redirected after the SCA is terminated by redirect.
HUB URI where the transaction flow must be redirected after the SCA is terminated by redirect.

It is recommended to always use this header field.

In the future, this field might change to mandatory.

• String• COND• ^.{1,250}\$
String• COND• ^.{1,250}\$
COND• ^.{1,250}\$
^.{1,250}\$

Ej: TPP-Redirect-URI:"https://hub.example.es/cb"• • **TPP-Nok-Redirect-URI**• If this URI is contained, the HUB is requesting to redirect the transaction flow to this address instead of to the TPP-Redirect-URI in case of a negative result of the SCA method by redirection.

• **TPP-Nok-Redirect-URI**• If this URI is contained, the HUB is requesting to redirect the transaction flow to this address instead of to the TPP-Redirect-URI in case of a negative result of the SCA method by redirection.

TPP-Nok-Redirect-URI• If this URI is contained, the HUB is requesting to redirect the transaction flow to this address instead of to the TPP-Redirect-URI in case of a negative result of the SCA method by redirection.

If this URI is contained, the HUB is requesting to redirect the transaction flow to this address instead of to the TPP-Redirect-URI in case of a negative result of the SCA method by redirection.

• String• OPT• ^.{1,250}\$
String• OPT• ^.{1,250}\$
OPT• ^.{1,250}\$
^.{1,250}\$

Ej: TPP-Nok-Redirect-URI": "https://hub.example.es/cb/nok" • • **TPP-Explicit-Authorisation-Preferred** • If it is equal to true, the TPP prefers to start the authorization process separately, e.g. due to the need for authorization of a set of operations simultaneously.

• **TPP-Explicit-Authorisation-Preferred** • If it is equal to true, the TPP prefers to start the authorization process separately, e.g. due to the need for authorization of a set of operations simultaneously.

TPP-Explicit-Authorisation-Preferred • If it is equal to true, the TPP prefers to start the authorization process separately, e.g. due to the need for authorization of a set of operations simultaneously.

If it is equal to true, the TPP prefers to start the authorization process separately, e.g. due to the need for authorization of a set of operations simultaneously.

If false is false or the parameter is not used, there is no TPP preference. The TPP assumes a direct authorization of the transaction in the next step.

• Boolean • OPT • Ej: TPP-Explicit-Authorisation-Preferred: false • • **Digest** • It is contained if the Signature field travels.

Boolean • OPT • Ej: TPP-Explicit-Authorisation-Preferred: false • • **Digest** • It is contained if the Signature field travels.

OPT • Ej: TPP-Explicit-Authorisation-Preferred: false • • **Digest** • It is contained if the Signature field travels.

Ej: TPP-Explicit-Authorisation-Preferred: false • • **Digest** • It is contained if the Signature field travels.

• **Digest** • It is contained if the Signature field travels.

Digest • It is contained if the Signature field travels.

It is contained if the Signature field travels.

See 6.1 Signature for more information

• String • MAN • ^.{1,100}\$

String • MAN • ^.{1,100}\$

MAN • ^.{1,100}\$

^.{1,100}\$

Ej: Digest: SHA-256=NzdmZjA4YjY5M2M2NDYyMmVjOWFmMGNmYTZiNTU3MjVmNDI4NTRIMzJkYzE3ZmNmMDE3ZGFmMjhhNTc5OTU3OQ=

= • • **Signature** • Signature of the petition by the HUB.

• **Signature** • Signature of the petition by the HUB.

Signature • Signature of the petition by the HUB.

Signature of the petition by the HUB.

See 6.1 Signature for more information

• String • MAN • Ver anexos • • **TPP-Signature-Certificate** • Certificate of the HUB used to sign the petition in Base64.

String • MAN • Ver anexos • • **TPP-Signature-Certificate** • Certificate of the HUB used to sign the petition

in Base64.

MAN• Ver anexos• • **TPP-Signature-Certificate**• Certificate of the HUB used to sign the petition in Base64.

Ver anexos• • **TPP-Signature-Certificate**• Certificate of the HUB used to sign the petition in Base64.

• **TPP-Signature-Certificate**• Certificate of the HUB used to sign the petition in Base64.

TPP-Signature-Certificate• Certificate of the HUB used to sign the petition in Base64.

Certificate of the HUB used to sign the petition in Base64.

See 6.1 Signature for more information.

• String• MAN• ^.{1,5000}\$

String• MAN• ^.{1,5000}\$

MAN• ^.{1,5000}\$

^.{1,5000}\$

EJ: TPP-Signature-Certificate:

MIIHgZCCBmugAwIBAgIIZzZvBQIt0UcwDQYJ.....KoZIhvcN

AQELBQAwSTELMAkGA1UEBhMCMVVMxEzARBgNVBA• •

•

Body

The content of the Body is as defined in 5.23 SinglePayment

4.1.1.2 Response

Header

Field• Description• Type• Man. • Format• • Location
n• Location of the created resource (if created)

• String• MAN• E.g. Location: /v1/payments/{payment-product}/{payment-id}• • **HUB- Transaction -**

ID• The unique identifier of the operation assigned by the HUB.

Description• Type• Man. • Format• • Location• Location of the created resource (if created)

• String• MAN• E.g. Location: /v1/payments/{payment-product}/{payment-id}• • **HUB- Transaction -**

ID• The unique identifier of the operation assigned by the HUB.

Type• Man. • Format• • Location• Location of the created resource (if created) • String• MAN• E.g.

Location: /v1/payments/{payment-product}/{payment-id}• • **HUB- Transaction -ID**• The unique identifier of the operation assigned by the HUB.

Man. • Format• • Location• Location of the created

resource (if created) • String • MAN • E.g. Location:

/v1/payments/{payment-product}/{payment-id} • • **HUB- Transaction -ID** • The unique identifier of the operation assigned by the HUB.

Format • • **Location** • Location of the created resource (if created) • String • MAN • E.g. Location:

/v1/payments/{payment-product}/{payment-id} • • **HUB- Transaction -ID** • The unique identifier of the operation assigned by the HUB.

• **Location** • Location of the created resource (if created) • String • MAN • E.g. Location:

/v1/payments/{payment-product}/{payment-id} • • **HUB- Transaction -ID** • The unique identifier of the operation assigned by the HUB.

Location • Location of the created resource (if created) • String • MAN • E.g. Location: /v1/payments/{payment-product}/{payment-id} • • **HUB- Transaction -**

ID • The unique identifier of the operation assigned by the HUB.

Location of the created resource (if created)

• String • MAN • E.g. Location: /v1/payments/{payment-product}/{payment-id} • • **HUB- Transaction -**

ID • The unique identifier of the operation assigned by the HUB.

String • MAN • E.g. Location: /v1/payments/{payment-product}/{payment-id} • • **HUB- Transaction -**

ID • The unique identifier of the operation assigned by the HUB.

MAN • E.g. Location: /v1/payments/{payment-product}/{payment-id} • • **HUB- Transaction -**

ID • The unique identifier of the operation assigned by the HUB.

E.g. Location: /v1/payments/{payment-product}/{payment-id} • • **HUB- Transaction -**

ID • The unique identifier of the operation assigned by the HUB.

• **HUB- Transaction -ID** • The unique identifier of the operation assigned by the HUB.

HUB- Transaction -ID • The unique identifier of the operation assigned by the HUB.

The unique identifier of the operation assigned by the HUB.

Note: whenever the request is from the Hub you will be informed.

• String • • **UUID**

String • • **UUID**

• **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

Ej:

HUB-Transaction-ID: 5b3ab8e8-0fd5-43d2-946e-d75958b172e7 • • **HUB-Request-ID**

Unique identifier for the request assigned by the HUB. Relates the HTTP request between HUB and ASPSP.

• **HUB-Request-ID** Unique identifier for the request assigned by the HUB. Relates the HTTP request between HUB and ASPSP.

HUB-Request-ID Unique identifier for the request assigned by the HUB. Relates the HTTP request between HUB and ASPSP.

Unique identifier for the request assigned by the HUB. Relates the HTTP request between HUB and ASPSP.

Note: whenever the request is from the Hub you will be informed. • String • • **UUID**

String • • **UUID**

• **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

Ej:

HUB-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7 • • **X-Request-ID**

Unique transaction identifier assigned by the TPP. • String • MAN • **UUID**

• **X-Request-ID** Unique transaction identifier assigned by the TPP. • String • MAN • **UUID**

X-Request-ID Unique transaction identifier assigned by the TPP. • String • MAN • **UUID**

Unique transaction identifier assigned by the TPP. • String • MAN • **UUID**

String • MAN • **UUID**

MAN • **UUID**

UUID

^[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\$

E.g.

X-Request-ID: 1b3ab8e8-0fd5-43d2-946e-d75958b172e7 • • **ASPSP-SCA-Approach** • Value returned if the SCA method has been fixed. Possible values:

• **ASPSP-SCA-Approach** • Value returned if the SCA method has been fixed. Possible values:

ASPSP-SCA-Approach • Value returned if the SCA method has been fixed. Possible values:

Value returned if the SCA method has been fixed. Possible values:

- REDIRECT

The SCA based on OAuth will be taken as REDIRECT.

EMBEDDED and DECOUPLED are not supported in this version. • String • COND • E.g. ASPSP-SCA-Approach: REDIRECT • •

String • COND • E.g. ASPSP-SCA-Approach: REDIRECT • •

COND • E.g. ASPSP-SCA-Approach: REDIRECT • •
E.g. ASPSP-SCA-Approach: REDIRECT • •

•

Body

Field • Description • Type • Man. • Format • • transactionStatus • Status of the transaction.

Description • Type • Man. • Format • • transactionStatus • Status of the transaction.

Type • Man. • Format • • transactionStatus • Status of the transaction.

Man. • Format • • transactionStatus • Status of the transaction.

Format • • transactionStatus • Status of the transaction.

• **transactionStatus** • Status of the transaction.

transactionStatus • Status of the transaction.

Status of the transaction.

Values defined in annexes in 6.4 • String • MAN • **ISO 20022**

String • MAN • **ISO 20022**

MAN • **ISO 20022**

ISO 20022

E.g. "transactionStatus":

"RCVD" • • **paymentId** Identifier of the resource that references the payment initiation. • String • MAN • $\wedge.\{1,36\}$ \$

• **paymentId** Identifier of the resource that references the payment initiation. • String • MAN • $\wedge.\{1,36\}$ \$

paymentId Identifier of the resource that references the payment initiation. • String • MAN • $\wedge.\{1,36\}$ \$

Identifier of the resource that references the payment initiation. • String • MAN • $\wedge.\{1,36\}$ \$

String • MAN • $\wedge.\{1,36\}$ \$

MAN • $\wedge.\{1,36\}$ \$

$\wedge.\{1,36\}$ \$

E.g. "paymentId": "1b3ab8e8-0fd5-43d2-946e-d75958b172e7" • • **transactionFees** Fees associated with the payment.

Fees associated with the payment. • Amount • OPT • E.g. "transactionFees": {...} • • **transactionFeeIndicator** If equal to "true", the transaction will involve a fee depending on the ASPSP or what has been agreed between the ASPSP and the PSU.

• **transactionFees** Fees associated with the payment. Fees associated with the payment. • Amount • OPT • E.g. "transactionFees": {...} • • **transactionFeeIndicator** If equal to "true", the transaction will involve a fee depending on the ASPSP or what has been agreed between the ASPSP and the PSU.

transactionFees Fees associated with the payment. Fees associated with the payment. • Amount • OPT • E.g. "transactionFees": {...} • • **transactionFeeIndicator** If equal to "true", the transaction will involve a fee depending on the

ASPSP or what has been agreed between the ASPSP and the PSU.

Fees associated with the payment. Fees associated with the payment. • Amount • OPT • E.g. "transactionFees": {...} • • **transactionFeeIndicator** • If equal to "true", the transaction will involve a fee depending on the ASPSP or what has been agreed between the ASPSP and the PSU.

Amount • OPT • E.g. "transactionFees": {...} • • **transactionFeeIndicator** • If equal to "true", the transaction will involve a fee depending on the ASPSP or what has been agreed between the ASPSP and the PSU.

OPT • E.g. "transactionFees": {...} • • **transactionFeeIndicator** • If equal to "true", the transaction will involve a fee depending on the ASPSP or what has been agreed between the ASPSP and the PSU.

E.g. "transactionFees": {...} • • **transactionFeeIndicator** • If equal to "true", the transaction will involve a fee depending on the ASPSP or what has been agreed between the ASPSP and the PSU.

• **transactionFeeIndicator** • If equal to "true", the transaction will involve a fee depending on the ASPSP or what has been agreed between the ASPSP and the PSU.

transactionFeeIndicator • If equal to "true", the transaction will involve a fee depending on the ASPSP or what has been agreed between the ASPSP and the PSU.

If equal to "true", the transaction will involve a fee depending on the ASPSP or what has been agreed between the ASPSP and the PSU.

If equal to "false", the transaction will not involve any additional fee for the PSU.

• Boolean • • E.g. "transactionFeeIndicator": true • • **scaMethods** • If this data is contained, the link "startAuthorisationWithAuthenticationMethodSelection" will also be reported.

Boolean • • E.g. "transactionFeeIndicator": true • • **scaMethods** • If this data is contained, the link

"startAuthorisationWithAuthenticationMethodSelection" will also be reported.

- E.g. "transactionFeeIndicator": true
- **scaMethods** If this data is contained, the link "startAuthorisationWithAuthenticationMethodSelection" will also be reported.

E.g. "transactionFeeIndicator": true

- **scaMethods** If this data is contained, the link "startAuthorisationWithAuthenticationMethodSelection" will also be reported.

- **scaMethods** If this data is contained, the link "startAuthorisationWithAuthenticationMethodSelection" will also be reported.

scaMethods If this data is contained, the link "startAuthorisationWithAuthenticationMethodSelection" will also be reported.

If this data is contained, the link "startAuthorisationWithAuthenticationMethodSelection" will also be reported.

These methods should be submitted to the PSU.

- List<AuthenticationObject>
- COND
- Ej: "scaMethods": [...]
- **_links** List of hyperlinks to be recognised by the TPP. Types supported in this response:

List<AuthenticationObject>

- COND
- Ej: "scaMethods": [...]
- **_links** List of hyperlinks to be recognised by the TPP. Types supported in this response:

COND

- Ej: "scaMethods": [...]
- **_links** List of hyperlinks to be recognised by the TPP. Types supported in this response:

Ej: "scaMethods": [...]

- **_links** List of hyperlinks to be recognised by the TPP. Types supported in this response:

- **_links** List of hyperlinks to be recognised by the TPP. Types supported in this response:

_links List of hyperlinks to be recognised by the TPP. Types supported in this response:

List of hyperlinks to be recognised by the TPP. Types supported in this response:

- **scaRedirect**: in case of SCA by redirection. Link where the PSU navigator must be redirected by the TPP.
- **startAuthorisation**: if an explicit initiation of the transaction authorisation is necessary (there is no selection of the SCA method)
- **startAuthorisationWithAuthenticationMethodSelection**: link to the authorisation endpoint where the authorisation sub-resource has to be generated while the SCA method is selected. This link is contained under the same conditions as the "scaMethods" field
- **self**: link to the resource created by this request.
- **status**: link to recover the transaction status.

scaStatus: link to query the SCA status corresponding to the authorisation sub-resource. This link is only contained if an authorisation sub-resource has been created.

- **Links**• MAN• E.g. "_links": {...}• • **psuMessage**• Text to show to the PSU.• String• OPT• ^.{1,512}\$

Links• MAN• E.g. "_links": {...}• • **psuMessage**• Text to show to the PSU.• String• OPT• ^.{1,512}\$

MAN• E.g. "_links": {...}• • **psuMessage**• Text to show to the PSU.• String• OPT• ^.{1,512}\$

E.g. "_links": {...}• • **psuMessage**• Text to show to the PSU.• String• OPT• ^.{1,512}\$

• **psuMessage**• Text to show to the PSU.• String• OPT• ^.{1,512}\$

psuMessage• Text to show to the PSU.• String• OPT• ^.{1,512}\$

Text to show to the PSU.• String• OPT• ^.{1,512}\$

String• OPT• ^.{1,512}\$

OPT• ^.{1,512}\$

^.{1,512}\$

E.g. "psuMessage": "Information for the PSU" • • **tppMessages** • Message for the TPP
 • List<TppMessage> • OPT • E.g. "tppMessages": [...]
 • •
 • **tppMessages** • Message for the TPP
 • List<TppMessage> • OPT • E.g. "tppMessages": [...]
 • •
tppMessages • Message for the TPP
 • List<TppMessage> • OPT • E.g. "tppMessages": [...]
 • •
 Message for the TPP • List<TppMessage> • OPT • E.g. "tppMessages": [...]
 • •
 List<TppMessage> • OPT • E.g. "tppMessages": [...]
 • •
 OPT • E.g. "tppMessages": [...]
 • •
 E.g. "tppMessages": [...]
 • •
 •

4.1.1.3 Examples

Example of request

```
POST https://www.hub.com/aspsp-
name/v1/sva/payments/sepa-credit-transfers
Content-Encoding: gzip
Content-Type: application/json
X-Request-ID: 10391c7e-ad88-49ec-a2ad-00aacb1f6541
Authorization: Bearer 2YotnFZFEjrlzCsicMWpAA
PSU-IP-Address: 192.168.8.16
PSU-IP-Port: 443
PSU-Accept: application/json
PSU-Accept-Charset: utf-8
PSU-Accept-Encoding: gzip
PSU-Accept-Language: es-ES
PSU-User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64;
rv:54.0) Gecko/20100101 Firefox/54.0
PSU-Http-Method: POST
PSU-Device-ID: f8b3feda-6fe3-11e8-adc0-fa7ae01bbebc
PSU-GEO-Location: GEO:12.526347;54.649862
TPP-Redirect-Preferred: true
```


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```

TPP-Redirect-URI: https://www.tpp.com/cb
TPP-Nok-Redirect-URI: https://www.tpp.com/cb/nok
Date: Sun, 26 Sep 2017 15:02:37 GMT
{
  "instructedAmount": {
    "currency": "EUR",
    "amount": "153.50"
  },
  "creditorAccount": {
    "iban": "ES2222222222222222222222"
  },
  "creditorName": "Name123",
  "remittanceInformationUnstructured":
  "Additional information"
}

```

Example of response

```

HTTP/1.1 201 Created
X-Request-ID: 10391c7e-ad88-49ec-a2ad-00aacb1f6541
ASPS-SCA-Approach: REDIRECT
Date: Sun, 26 Sep 2017 15:02:43 GMT
Location: /v1/payments/sepa-credit-transfers/1234-qwer-5678
{
  "transactionStatus": "RCVD",
  "paymentId": "123-qwe-456",
  "_links": {
    "scaRedirect": {
      "href":
      "https://www.hub.com/aspsp-name/authorize"
    },
    "self": {
      "href": "/v1/payments/sepa-credit-transfers/123-qwe-456",
      "status": {

```

```

    "href": "/v1/payments/sepa-credit-
transfers/123-qwe-456/status"
  }
}
}

```

5. DEFINITION OF TYPES OF COMPOSITE DATA

The types of composite data used for the requests and responses in the system are defined below.

5.1 AccountAccess

Field• Description• Type• Man.• Format• • accounts Is asking for detailed account information.

Description• Type• Man.• Format• • accounts• Is asking for detailed account information.

Type• Man.• Format• • accounts• Is asking for detailed account information.

Man.• Format• • accounts• Is asking for detailed account information.

Format• • accounts• Is asking for detailed account information.

• accounts• Is asking for detailed account information.

accounts• Is asking for detailed account information.

Is asking for detailed account information.

If the array is empty, the TPP is asking for an accessible

account list. This may be restricted in a PSU/ASPSP authorization dialogue. If the array is empty, also the arrays for balances or transactions shall be empty, if used.

- List<AccountReference>• OPT• E.g. "accounts": [...]
 - **balances**• Is asking for balances of the addressed accounts.

List<AccountReference>• OPT• E.g. "accounts": [...]

- **balances**• Is asking for balances of the addressed accounts.

OPT• E.g. "accounts": [...]

- **balances**• Is asking for balances of the addressed accounts.

E.g. "accounts": [...]

- **balances**• Is asking for balances of the addressed accounts.

- **balances**• Is asking for balances of the addressed accounts.

balances• Is asking for balances of the addressed accounts.

Is asking for balances of the addressed accounts.

If the array is empty, the TPP is asking for the balances of all accessible account lists. This may be restricted in a PSU/ASPSP authorization dialogue. If the array is empty, also the arrays for accounts or transactions shall be empty, if used.

- List<AccountReference>• OPT• E.g. "balances": [...]
 - **transactions**• Is asking for transactions of the addressed accounts.

List<AccountReference>• OPT• E.g. "balances": [...]

- **transactions**• Is asking for transactions of the addressed accounts.

OPT• E.g. "balances": [...]

- **transactions**• Is asking for transactions of the addressed accounts.

E.g. "balances": [...]

- **transactions**• Is asking for transactions of the addressed accounts.

- **transactions**• Is asking for transactions of the addressed accounts.

transactions• Is asking for transactions of the addressed accounts.

Is asking for transactions of the addressed accounts.

If the array is empty, the TPP is asking for the transactions of all accessible account lists. This may be restricted in a PSU/ASPSP authorization dialogue. If the array is empty, also the arrays for accounts or balances shall be empty, if used.

• List<AccountReference>• OPT• E.g. "transactions":
[...]
• • **availableAccounts**• Only the value
"allAccounts" is admitted. • String• OPT• E.g.
"availableAccounts":
"allAccounts"• • **availableAccountsWithBalances**• Only
the value "allAccounts" is admitted• String• OPT• E.g.
"availableAccountsWithBalances":
"allAccounts"• • **allPsd2**• Only the value "allAccounts" is
admitted• String• OPT• E.g. "allPsd2": "allAccounts"• •

List<AccountReference>• OPT• E.g. "transactions":
[...]
• • **availableAccounts**• Only the value
"allAccounts" is admitted. • String• OPT• E.g.
"availableAccounts":
"allAccounts"• • **availableAccountsWithBalances**• Only
the value "allAccounts" is admitted• String• OPT• E.g.
"availableAccountsWithBalances":
"allAccounts"• • **allPsd2**• Only the value "allAccounts" is
admitted• String• OPT• E.g. "allPsd2": "allAccounts"• •

OPT• E.g. "transactions":
[...]
• • **availableAccounts**• Only the value
"allAccounts" is admitted. • String• OPT• E.g.
"availableAccounts":
"allAccounts"• • **availableAccountsWithBalances**• Only
the value "allAccounts" is admitted• String• OPT• E.g.
"availableAccountsWithBalances":
"allAccounts"• • **allPsd2**• Only the value "allAccounts" is
admitted• String• OPT• E.g. "allPsd2": "allAccounts"• •

E.g. "transactions": [...]
• • **availableAccounts**• Only
the value "allAccounts" is admitted. • String• OPT• E.g.
"availableAccounts":
"allAccounts"• • **availableAccountsWithBalances**• Only
the value "allAccounts" is admitted• String• OPT• E.g.
"availableAccountsWithBalances":
"allAccounts"• • **allPsd2**• Only the value "allAccounts" is
admitted• String• OPT• E.g. "allPsd2": "allAccounts"• •

• **availableAccounts**• Only the value "allAccounts" is

admitted. • String• OPT• E.g. "availableAccounts":
"allAccounts"• • **availableAccountsWithBalances**• Only
y the value "allAccounts" is admitted• String• OPT• E.g.
"availableAccountsWithBalances":
"allAccounts"• • **allPsd2**• Only the value "allAccounts" is
admitted• String• OPT• E.g. "allPsd2": "allAccounts"• •
availableAccounts• Only the value "allAccounts" is
admitted. • String• OPT• E.g. "availableAccounts":
"allAccounts"• • **availableAccountsWithBalances**• Only
y the value "allAccounts" is admitted• String• OPT• E.g.
"availableAccountsWithBalances":
"allAccounts"• • **allPsd2**• Only the value "allAccounts" is
admitted• String• OPT• E.g. "allPsd2": "allAccounts"• •
Only the value "allAccounts" is admitted.
• String• OPT• E.g. "availableAccounts":
"allAccounts"• • **availableAccountsWithBalances**• Only
y the value "allAccounts" is admitted• String• OPT• E.g.
"availableAccountsWithBalances":
"allAccounts"• • **allPsd2**• Only the value "allAccounts" is
admitted• String• OPT• E.g. "allPsd2": "allAccounts"• •
String• OPT• E.g. "availableAccounts":
"allAccounts"• • **availableAccountsWithBalances**• Only
y the value "allAccounts" is admitted• String• OPT• E.g.
"availableAccountsWithBalances":
"allAccounts"• • **allPsd2**• Only the value "allAccounts" is
admitted• String• OPT• E.g. "allPsd2": "allAccounts"• •
OPT• E.g. "availableAccounts":
"allAccounts"• • **availableAccountsWithBalances**• Only
y the value "allAccounts" is admitted• String• OPT• E.g.
"availableAccountsWithBalances":
"allAccounts"• • **allPsd2**• Only the value "allAccounts" is
admitted• String• OPT• E.g. "allPsd2": "allAccounts"• •
E.g. "availableAccounts":
"allAccounts"• • **availableAccountsWithBalances**• Only
y the value "allAccounts" is admitted• String• OPT• E.g.
"availableAccountsWithBalances":
"allAccounts"• • **allPsd2**• Only the value "allAccounts" is
admitted• String• OPT• E.g. "allPsd2": "allAccounts"• •
• **availableAccountsWithBalances**• Only the value
"allAccounts" is admitted• String• OPT• E.g.
"availableAccountsWithBalances":
"allAccounts"• • **allPsd2**• Only the value "allAccounts" is

admitted• String• OPT• E.g. "allPsd2": "allAccounts"• •

availableAccountsWithBalances• Only the value

"allAccounts" is admitted• String• OPT• E.g.

"availableAccountsWithBalances":

"allAccounts"• • **allPsd2**• Only the value "allAccounts" is

admitted• String• OPT• E.g. "allPsd2": "allAccounts"• •

Only the value "allAccounts" is

admitted• String• OPT• E.g.

"availableAccountsWithBalances":

"allAccounts"• • **allPsd2**• Only the value "allAccounts" is

admitted• String• OPT• E.g. "allPsd2": "allAccounts"• •

String• OPT• E.g. "availableAccountsWithBalances":

"allAccounts"• • **allPsd2**• Only the value "allAccounts" is

admitted• String• OPT• E.g. "allPsd2": "allAccounts"• •

OPT• E.g. "availableAccountsWithBalances":

"allAccounts"• • **allPsd2**• Only the value "allAccounts" is

admitted• String• OPT• E.g. "allPsd2": "allAccounts"• •

E.g. "availableAccountsWithBalances":

"allAccounts"• • **allPsd2**• Only the value "allAccounts" is

admitted• String• OPT• E.g. "allPsd2": "allAccounts"• •

• **allPsd2**• Only the value "allAccounts" is

admitted• String• OPT• E.g. "allPsd2": "allAccounts"• •

allPsd2• Only the value "allAccounts" is

admitted• String• OPT• E.g. "allPsd2": "allAccounts"• •

Only the value "allAccounts" is

admitted• String• OPT• E.g. "allPsd2": "allAccounts"• •

String• OPT• E.g. "allPsd2": "allAccounts"• •

OPT• E.g. "allPsd2": "allAccounts"• •

E.g. "allPsd2": "allAccounts"• •

•

5.2 AccountDetails

Field• Description• Type• Man.• Format• • resource

eId• This is the data element to be used in the path when retrieving data from a dedicated account.

Description• Type• Man.• Format• • resourceId• This is the data element to be used in the path when retrieving data from a dedicated account.

Type• Man.• Format• • resourceId• This is the data element to be used in the path when retrieving data from a dedicated account.

Man.• Format• • resourceId• This is the data element to be used in the path when retrieving data from a dedicated account.

Format• • resourceId• This is the data element to be used in the path when retrieving data from a dedicated account.

• resourceId• This is the data element to be used in the path when retrieving data from a dedicated account.

resourceId• This is the data element to be used in the path when retrieving data from a dedicated account.

This is the data element to be used in the path when retrieving data from a dedicated account.

This shall be filled, if addressable resource are created by the ASPSP on the /accounts endpoint.

• String• COND• ^.{1,100}\$

String• COND• ^.{1,100}\$

COND• ^.{1,100}\$

^{1,100}\$

E.g.

"resourceId":"3dc3d5b3702348489853f5400a64e80f"•

• **iban•** IBAN of the account• String• OPT• E.g.

"iban":"ES11111111111111111111"• • **bban•** BBAN of the account if it does not have an

IBAN. • String• OPT• E.g.

"bban":"20385778983000760236"• • **msisdn•** Alias to access a payment account through a registered mobile phone number. • String• OPT• ^.{1,35}\$

iban• IBAN of the account• String• OPT• E.g.

"iban":"ES11111111111111111111"• • **bban•** BBAN of the account if it does not have an

IBAN. • String• OPT• E.g.

"bban":"20385778983000760236"• • **msisdn•** Alias to

access a payment account through a registered mobile phone number. • String • OPT • $\wedge.\{1,35\}$ \$

IBAN of the account • String • OPT • E.g.

"iban":"ES111111111111111111" • • **bban** • BBAN of the account if it does not have an

IBAN. • String • OPT • E.g.

"bban":"20385778983000760236" • • **msisdn** • Alias to access a payment account through a registered mobile phone number. • String • OPT • $\wedge.\{1,35\}$ \$

String • OPT • E.g.

"iban":"ES111111111111111111" • • **bban** • BBAN of the account if it does not have an

IBAN. • String • OPT • E.g.

"bban":"20385778983000760236" • • **msisdn** • Alias to access a payment account through a registered mobile phone number. • String • OPT • $\wedge.\{1,35\}$ \$

OPT • E.g.

"iban":"ES111111111111111111" • • **bban** • BBAN of the account if it does not have an

IBAN. • String • OPT • E.g.

"bban":"20385778983000760236" • • **msisdn** • Alias to access a payment account through a registered mobile phone number. • String • OPT • $\wedge.\{1,35\}$ \$

E.g. "iban":"ES111111111111111111" • • **bban** • BBAN of the account if it does not have an

IBAN. • String • OPT • E.g.

"bban":"20385778983000760236" • • **msisdn** • Alias to access a payment account through a registered mobile phone number. • String • OPT • $\wedge.\{1,35\}$ \$

• **bban** • BBAN of the account if it does not have an

IBAN. • String • OPT • E.g.

"bban":"20385778983000760236" • • **msisdn** • Alias to access a payment account through a registered mobile phone number. • String • OPT • $\wedge.\{1,35\}$ \$

bban • BBAN of the account if it does not have an

IBAN. • String • OPT • E.g.

"bban":"20385778983000760236" • • **msisdn** • Alias to access a payment account through a registered mobile phone number. • String • OPT • $\wedge.\{1,35\}$ \$

BBAN of the account if it does not have an

IBAN. • String • OPT • E.g.

"bban":"20385778983000760236" • • **msisdn** • Alias to

access a payment account through a registered mobile phone number. • String • OPT • ^.{1,35}\$

String • OPT • E.g.

"bban": "20385778983000760236" • • **msisdn** • Alias to access a payment account through a registered mobile phone number. • String • OPT • ^.{1,35}\$

OPT • E.g.

"bban": "20385778983000760236" • • **msisdn** • Alias to access a payment account through a registered mobile phone number. • String • OPT • ^.{1,35}\$

E.g.

"bban": "20385778983000760236" • • **msisdn** • Alias to access a payment account through a registered mobile phone number. • String • OPT • ^.{1,35}\$

• **msisdn** • Alias to access a payment account through a registered mobile phone number. • String • OPT • ^.{1,35}\$

msisdn • Alias to access a payment account through a registered mobile phone number. • String • OPT • ^.{1,35}\$

Alias to access a payment account through a registered mobile phone number. • String • OPT • ^.{1,35}\$

String • OPT • ^.{1,35}\$

OPT • ^.{1,35}\$

^.{1,35}\$

E.g. "msisdn": "... " • • **currency** • Account currency. • String • MAN • **ISO 4217**

• **currency** • Account currency. • String • MAN • **ISO 4217**

currency • Account currency. • String • MAN • **ISO 4217**

Account currency. • String • MAN • **ISO 4217**

String • MAN • **ISO 4217**

MAN • **ISO 4217**

ISO 4217

E.g. "currency": "EUR" • • **name** • Name of the account given by the bank or the PSU in Online-Banking

• String • OPT • ^.{1,35}\$

- **name**• Name of the account given by the bank or the PSU in Online-Banking • String• OPT• ^.{1,35}\$

name• Name of the account given by the bank or the PSU in Online-Banking • String• OPT• ^.{1,35}\$

Name of the account given by the bank or the PSU in Online-Banking • String• OPT• ^.{1,35}\$

String• OPT• ^.{1,35}\$

OPT• ^.{1,35}\$

^{1,35}\$

E.g. "name": "Name"• • **product**

- **product**

product

- Product Name of the Bank for this account, proprietary definition • String• OPT• ^.{1,35}\$

Product Name of the Bank for this account, proprietary definition • String• OPT• ^.{1,35}\$

String• OPT• ^.{1,35}\$

OPT• ^.{1,35}\$

^{1,35}\$

E.g. "product": "Main

Account"• • **cashAccountType**• Specifies the nature or use of the

account. • String• OPT• **ExternalCashAccountType1Code de ISO 20022**

- **cashAccountType**• Specifies the nature or use of the account. • String• OPT• **ExternalCashAccountType1Code de ISO 20022**

cashAccountType• Specifies the nature or use of the account. • String• OPT• **ExternalCashAccountType1Code de ISO 20022**

Specifies the nature or use of the account. • String• OPT• **ExternalCashAccountType1Code de ISO 20022**

String• OPT• **ExternalCashAccountType1Code de ISO 20022**

OPT• **ExternalCashAccountType1Code de ISO 20022**
ExternalCashAccountType1Code de ISO 20022

E.g. "cashAccountType": "CACC"• • **status**• Account status.
The value is one of the following:

• **status** Account status. The value is one of the following:

status Account status. The value is one of the following:

Account status. The value is one of the following:

- enabled: the account is available
- deleted: account closed
- blocked: account blocked
- String OPT E.g. "status": "enabled"
- **bic** BIC of the account. • String OPT ^.{1,12}\$
- String OPT E.g. "status": "enabled"
- **bic** BIC of the account. • String OPT ^.{1,12}\$
- OPT E.g. "status": "enabled"
- **bic** BIC of the account. • String OPT ^.{1,12}\$
- E.g. "status": "enabled"
- **bic** BIC of the account. • String OPT ^.{1,12}\$
- **bic** BIC of the account. • String OPT ^.{1,12}\$
- BIC of the account. • String OPT ^.{1,12}\$
- String OPT ^.{1,12}\$
- OPT ^.{1,12}\$
- ^.{1,12}\$

E.g. "bic": "XSXHXSMXXX" • **linkedAccounts** This data attribute is a field, where an ASPSP can name a cash account associated to pending card transactions.

- String OPT ^.{1,70}\$
- **linkedAccounts** This data attribute is a field, where an ASPSP can name a cash account associated to pending card transactions. • String OPT ^.{1,70}\$
- linkedAccounts** This data attribute is a field, where an ASPSP can name a cash account associated to pending card transactions. • String OPT ^.{1,70}\$
- This data attribute is a field, where an ASPSP can name a cash account associated to pending card transactions.
- String OPT ^.{1,70}\$

String• OPT• ^.{1,70}\$

OPT• ^.{1,70}\$

^{1,70}\$

• • **usage**• Specifies the use of the account. Possible values:

• **usage**• Specifies the use of the account. Possible values:

usage• Specifies the use of the account. Possible values:

Specifies the use of the account. Possible values:

- PRIV: private personal account

- ORGA: business account• String• OPT• ^.{1,4}\$

String• OPT• ^.{1,4}\$

OPT• ^.{1,4}\$

^{1,4}\$

E.g. "usage": "PRIV"• • **details**• Specifications that must might be provided by the ASPSP.

• **details**• Specifications that must might be provided by the ASPSP.

details• Specifications that must might be provided by the ASPSP.

Specifications that must might be provided by the ASPSP.

- Account characteristics

- Card characteristics• String• OPT• ^.{1,140}\$

String• OPT• ^.{1,140}\$

OPT• ^.{1,140}\$

^{1,140}\$

• • **balances**• Account

balances. • List<Balance>• COND• "balances":

[...]• • **_links**• Links to the account, which can be directly used for retrieving account information from this dedicated account.

• **balances**• Account

balances. • List<Balance> • COND • "balances":
[...]. • • **_links** • Links to the account, which can be directly used for retrieving account information from this dedicated account.

balances • Account
balances. • List<Balance> • COND • "balances":
[...]. • • **_links** • Links to the account, which can be directly used for retrieving account information from this dedicated account.

Account balances. • List<Balance> • COND • "balances":
[...]. • • **_links** • Links to the account, which can be directly used for retrieving account information from this dedicated account.

List<Balance> • COND • "balances":
[...]. • • **_links** • Links to the account, which can be directly used for retrieving account information from this dedicated account.

COND • "balances": [...]. • • **_links** • Links to the account, which can be directly used for retrieving account information from this dedicated account.

"balances": [...]. • • **_links** • Links to the account, which can be directly used for retrieving account information from this dedicated account.

• **_links** • Links to the account, which can be directly used for retrieving account information from this dedicated account.

_links • Links to the account, which can be directly used for retrieving account information from this dedicated account.

Links to the account, which can be directly used for retrieving account information from this dedicated account.

Links to "balances" and/or "transactions"

These links are only supported, when the corresponding consent has been already granted.

• Links • OPT • E.g. "links": {...} • •

Links • OPT • E.g. "links": {...} • •

OPT • E.g. "links": {...} • •

E.g. "links": {...} • •

•

5.3 AccountReference

Field • **Description** • **Type** • **Man.** • **Format** • • **iban** • I

BAN of the account • String • COND • E.g.

"iban": "ES11111111111111111111" • • **bban** • BBAN of the account if it does not have an

IBAN. • String • COND • E.g.

"bban": "20385778983000760236" • • **pan** • Primary Account Number (PAN) of a card, can be tokenised by the ASPSP due to PCI DSS requirements.

• String • COND • ^.{1,35}\$

Description • **Type** • **Man.** • **Format** • • **iban** • IBAN of the account • String • COND • E.g.

"iban": "ES11111111111111111111" • • **bban** • BBAN of the account if it does not have an

IBAN. • String • COND • E.g.

"bban": "20385778983000760236" • • **pan** • Primary Account Number (PAN) of a card, can be tokenised by the ASPSP due to PCI DSS requirements.

• String • COND • ^.{1,35}\$

Type • **Man.** • **Format** • • **iban** • IBAN of the account • String • COND • E.g.

"iban": "ES11111111111111111111" • • **bban** • BBAN of the account if it does not have an

IBAN. • String • COND • E.g.

"bban": "20385778983000760236" • • **pan** • Primary Account Number (PAN) of a card, can be tokenised by the ASPSP due to PCI DSS requirements.

• String • COND • ^.{1,35}\$

Man. • **Format** • • **iban** • IBAN of the account • String • COND • E.g.

"iban": "ES11111111111111111111" • • **bban** • BBAN of the account if it does not have an

IBAN. • String • COND • E.g.

"bban": "20385778983000760236" • • **pan** • Primary Account Number (PAN) of a card, can be tokenised by the ASPSP due to PCI DSS requirements.

• String • COND • ^.{1,35}\$

Format • • **iban** • IBAN of the account • String • COND • E.g.

"iban": "ES11111111111111111111" • • **bban** • BBAN of the account if it does not have an IBAN. • String • COND • E.g.

"bban": "20385778983000760236" • • **pan** • Primary Account Number (PAN) of a card, can be tokenised by the ASPSP due to PCI DSS requirements.

• String • COND • ^.{1,35}\$

• **iban** • IBAN of the account • String • COND • E.g.

"iban": "ES11111111111111111111" • • **bban** • BBAN of the account if it does not have an IBAN. • String • COND • E.g.

"bban": "20385778983000760236" • • **pan** • Primary Account Number (PAN) of a card, can be tokenised by the ASPSP due to PCI DSS requirements.

• String • COND • ^.{1,35}\$

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• String • COND • ^.{1,35}\$

IBAN of the account • String • COND • E.g.

"iban": "ES11111111111111111111" • • **bban** • BBAN of the account if it does not have an IBAN. • String • COND • E.g.

"bban": "20385778983000760236" • • **pan** • Primary Account Number (PAN) of a card, can be tokenised by the ASPSP due to PCI DSS requirements.

• String • COND • ^.{1,35}\$

String • COND • E.g.

"iban": "ES11111111111111111111" • • **bban** • BBAN of the account if it does not have an IBAN. • String • COND • E.g.

"bban": "20385778983000760236" • • **pan** • Primary Account Number (PAN) of a card, can be tokenised by the ASPSP due to PCI DSS requirements.

- String• COND• ^.{1,35}\$

COND• E.g.

"iban":"ES11111111111111111111"• • **bban**• BBAN of the account if it does not have an

IBAN. • String• COND• E.g.

"bban":"20385778983000760236"• • **pan**• Primary Account Number (PAN) of a card, can be tokenised by the ASPSP due to PCI DSS requirements.

- String• COND• ^.{1,35}\$

E.g. "iban":"ES11111111111111111111"• • **bban**• BBAN of the account if it does not have an

IBAN. • String• COND• E.g.

"bban":"20385778983000760236"• • **pan**• Primary Account Number (PAN) of a card, can be tokenised by the ASPSP due to PCI DSS requirements.

- String• COND• ^.{1,35}\$

• **bban**• BBAN of the account if it does not have an IBAN. • String• COND• E.g.

"bban":"20385778983000760236"• • **pan**• Primary Account Number (PAN) of a card, can be tokenised by the ASPSP due to PCI DSS requirements.

- String• COND• ^.{1,35}\$

bban• BBAN of the account if it does not have an

IBAN. • String• COND• E.g.

"bban":"20385778983000760236"• • **pan**• Primary Account Number (PAN) of a card, can be tokenised by the ASPSP due to PCI DSS requirements.

- String• COND• ^.{1,35}\$

BBAN of the account if it does not have an

IBAN. • String• COND• E.g.

"bban":"20385778983000760236"• • **pan**• Primary Account Number (PAN) of a card, can be tokenised by the ASPSP due to PCI DSS requirements.

- String• COND• ^.{1,35}\$

String• COND• E.g.

"bban":"20385778983000760236"• • **pan**• Primary Account Number (PAN) of a card, can be tokenised by the ASPSP due to PCI DSS requirements.

- String• COND• ^.{1,35}\$

COND• E.g.

"bban":"20385778983000760236"• • **pan**• Primary Account Number (PAN) of a card, can be tokenised by the ASPSP due to PCI DSS requirements.

- String• COND• ^.{1,35}\$

E.g. "bban":"20385778983000760236"• • **pan**• Primary Account Number (PAN) of a card, can be tokenised by the ASPSP due to PCI DSS requirements.

- String• COND• ^.{1,35}\$

• **pan**• Primary Account Number (PAN) of a card, can be tokenised by the ASPSP due to PCI DSS requirements.

- String• COND• ^.{1,35}\$

pan• Primary Account Number (PAN) of a card, can be tokenised by the ASPSP due to PCI DSS requirements.

- String• COND• ^.{1,35}\$

Primary Account Number (PAN) of a card, can be tokenised by the ASPSP due to PCI DSS requirements.

- String• COND• ^.{1,35}\$

String• COND• ^.{1,35}\$

COND• ^.{1,35}\$

^{1,35}\$

E.g.

"pan":"1234567891234567"• • **maskedPan**• Primary Account Number (PAN) of a card in a masked form.

- String• COND• ^.{1,35}\$

• **maskedPan**• Primary Account Number (PAN) of a card in a masked form. • String• COND• ^.{1,35}\$

maskedPan• Primary Account Number (PAN) of a card in a masked form. • String• COND• ^.{1,35}\$

Primary Account Number (PAN) of a card in a masked form.

- String• COND• ^.{1,35}\$

String• COND• ^.{1,35}\$

COND• ^.{1,35}\$

^{1,35}\$

E.g.

"maskedPan":"123456*****4567"• • **msisdn**• Alias to access a payment account through a registered mobile phone number. • String• COND• ^.{1,35}\$

• **msisdn**• Alias to access a payment account through a registered mobile phone number. • String• COND• ^.{1,35}\$

msisdn• Alias to access a payment account through a

registered mobile phone

number. • String • COND • ^.{1,35}\$

Alias to access a payment account through a registered
mobile phone number. • String • COND • ^.{1,35}\$

String • COND • ^.{1,35}\$

COND • ^.{1,35}\$

^.{1,35}\$

E.g.

"msisdn":"..." • • **currency** • Currency • String • OPT • **ISO 4217**

• **currency** • Currency • String • OPT • **ISO 4217**

currency • Currency • String • OPT • **ISO 4217**

Currency • String • OPT • **ISO 4217**

String • OPT • **ISO 4217**

OPT • **ISO 4217**

ISO 4217

E.g. "currency": "EUR" • •

•

5.4 AccountReport

Field • Description • Type • Man. • Format • • booked

• Latest known transactions (notes) in the account

Description • Type • Man. • Format • • booked Latest known transactions (notes) in the account

Type • Man. • Format • • booked Latest known transactions (notes) in the account

Man. • Format • • booked Latest known transactions (notes) in the account

Format • • booked Latest known transactions (notes) in the account

• **booked** Latest known transactions (notes) in the account

booked Latest known transactions (notes) in the account

account

Latest known transactions (notes) in the account

Must be included if the bookingStatus parameter is established set as to "booked" or

"both". • List<Transactions> • COND • E.g.

"booked":[{}]. • • **pending** • Transactions pending in the account.

List<Transactions> • COND • E.g.

"booked":[{}]. • • **pending** • Transactions pending in the account.

COND • E.g. "booked":[{}]. • • **pending** • Transactions pending in the account.

E.g. "booked":[{}]. • • **pending** • Transactions pending in the account.

• **pending** • Transactions pending in the account.

pending • Transactions pending in the account.

Transactions pending in the account.

Not contained if the bookingStatus parameter is established as

"booked". • List<Transactions> • OPT • E.g.

"pending":[{}]. • • **_links** • The following links are accepted in this object:

List<Transactions> • OPT • E.g.

"pending":[{}]. • • **_links** • The following links are accepted in this object:

OPT • E.g. "pending":[{}]. • • **_links** • The following links are accepted in this object:

E.g. "pending":[{}]. • • **_links** • The following links are accepted in this object:

• **_links** • The following links are accepted in this object:

_links • The following links are accepted in this object:

The following links are accepted in this object:

- account (MAN)
- first (OPT)

- next (OPT)
- previous (OPT)
- last (OPT) • Links • MAN • E.g. "_links":[{}]
- Links • MAN • E.g. "_links":[{}]
- MAN • E.g. "_links":[{}]
- E.g. "_links":[{}]
-

5.5 Address

Field • Description • Type • Mand. • Format • • street
• Street • String • OPT • ^.{1,70}\$

Description • Type • Mand. • Format • • street Street
• String • OPT • ^.{1,70}\$

Type • Mand. • Format • • street Street • String • OPT
• ^.{1,70}\$

Mand. • Format • • street Street • String • OPT • ^.{1,70}\$

Format • • street Street • String • OPT • ^.{1,70}\$

• **street** Street • String • OPT • ^.{1,70}\$

street Street • String • OPT • ^.{1,70}\$

Street • String • OPT • ^.{1,70}\$

String • OPT • ^.{1,70}\$

OPT • ^.{1,70}\$

^.{1,70}\$

E.g. "street": "Example of

street" • • **buildingNumber** • Number • String • OPT • E.

g. "buildingNumber": "5" • • **city** • City • String • OPT • E.g.

"city": "Córdoba" • • **postalCode** • Postcode • String • OPT • E

.g. "postalCode": "14100" • • **country** • Country

code • String • MAN • **ISO 3166**

• **buildingNumber** • Number • String • OPT • E.g.

"buildingNumber": "5" • • **city** • City • String • OPT • E.g.

"city": "Córdoba" • • **postalCode** • Postcode • String • OPT • E

.g. "postalCode": "14100" • • **country** • Country

code• String• MAN• **ISO 3166**
buildingNumber• Number• String• OPT• E.g.
 "buildingNumber": "5"• • **city**• City• String• OPT• E.g.
 "city": "Córdoba"• • **postalCode**• Postcode• String• OPT• E
 .g. "postalCode": "14100"• • **country**• Country
 code• String• MAN• **ISO 3166**
 Number• String• OPT• E.g.
 "buildingNumber": "5"• • **city**• City• String• OPT• E.g.
 "city": "Córdoba"• • **postalCode**• Postcode• String• OPT• E
 .g. "postalCode": "14100"• • **country**• Country
 code• String• MAN• **ISO 3166**
 String• OPT• E.g.
 "buildingNumber": "5"• • **city**• City• String• OPT• E.g.
 "city": "Córdoba"• • **postalCode**• Postcode• String• OPT• E
 .g. "postalCode": "14100"• • **country**• Country
 code• String• MAN• **ISO 3166**
 OPT• E.g.
 "buildingNumber": "5"• • **city**• City• String• OPT• E.g.
 "city": "Córdoba"• • **postalCode**• Postcode• String• OPT• E
 .g. "postalCode": "14100"• • **country**• Country
 code• String• MAN• **ISO 3166**
 E.g. "buildingNumber": "5"• • **city**• City• String• OPT• E.g.
 "city": "Córdoba"• • **postalCode**• Postcode• String• OPT• E
 .g. "postalCode": "14100"• • **country**• Country
 code• String• MAN• **ISO 3166**
 • **city**• City• String• OPT• E.g.
 "city": "Córdoba"• • **postalCode**• Postcode• String• OPT• E
 .g. "postalCode": "14100"• • **country**• Country
 code• String• MAN• **ISO 3166**
city• City• String• OPT• E.g.
 "city": "Córdoba"• • **postalCode**• Postcode• String• OPT• E
 .g. "postalCode": "14100"• • **country**• Country
 code• String• MAN• **ISO 3166**
 City• String• OPT• E.g.
 "city": "Córdoba"• • **postalCode**• Postcode• String• OPT• E
 .g. "postalCode": "14100"• • **country**• Country
 code• String• MAN• **ISO 3166**
 String• OPT• E.g.
 "city": "Córdoba"• • **postalCode**• Postcode• String• OPT• E
 .g. "postalCode": "14100"• • **country**• Country
 code• String• MAN• **ISO 3166**
 OPT• E.g.
 "city": "Córdoba"• • **postalCode**• Postcode• String• OPT• E
 .g. "postalCode": "14100"• • **country**• Country

code• String• MAN• **ISO 3166**
E.g.
"city":"Córdoba"• • **postalCode**• Postcode• String• OPT• E
.g. "postalCode":"14100"• • **country**• Country
code• String• MAN• **ISO 3166**
• **postalCode**• Postcode• String• OPT• E.g.
"postalCode":"14100"• • **country**• Country
code• String• MAN• **ISO 3166**
postalCode• Postcode• String• OPT• E.g.
"postalCode":"14100"• • **country**• Country
code• String• MAN• **ISO 3166**
Postcode• String• OPT• E.g.
"postalCode":"14100"• • **country**• Country
code• String• MAN• **ISO 3166**
String• OPT• E.g.
"postalCode":"14100"• • **country**• Country
code• String• MAN• **ISO 3166**
OPT• E.g. "postalCode":"14100"• • **country**• Country
code• String• MAN• **ISO 3166**
E.g. "postalCode":"14100"• • **country**• Country
code• String• MAN• **ISO 3166**
• **country**• Country code• String• MAN• **ISO 3166**
country• Country code• String• MAN• **ISO 3166**
Country code• String• MAN• **ISO 3166**
String• MAN• **ISO 3166**
MAN• **ISO 3166**
ISO 3166
E.g. "country":"ES"• •
•

5.6 Amount

Field• Description• Type• Mand.• Format• • currency
ncy• Currency of amount.• String• MAN• **ISO 4217**

Description• Type• Mand.• Format• • currency• Cu
rrency of amount.• String• MAN• **ISO 4217**

Type• Mand.• Format• • currency• Currency of
amount.• String• MAN• **ISO 4217**

Mand.• Format• • currency• Currency of
amount.• String• MAN• **ISO 4217**

Format • **currency** • Currency of amount. • String • MAN • **ISO 4217**

• **currency** • Currency of amount. • String • MAN • **ISO 4217**

currency • Currency of amount. • String • MAN • **ISO 4217**

Currency of amount. • String • MAN • **ISO 4217**

String • MAN • **ISO 4217**

MAN • **ISO 4217**

ISO 4217

E.g.

"currency": "EUR" • • **amount** • Amount

• **amount** • Amount

amount • Amount

Amount

The decimal separator is a point. • String • MAN • **ISO 4217**

String • MAN • **ISO 4217**

MAN • **ISO 4217**

ISO 4217

E.g.

"amount": "500.00" • •

•

5.7 AuthenticationObject

Field • **Description** • **Type** • **Mand.** • **Format** • • **authenticationType** • Type of authentication method. Possible values:

Description • **Type** • **Mand.** • **Format** • • **authenticationType** • Type of authentication method. Possible values:

Type • **Mand.** • **Format** • • **authenticationType** • Type of authentication method. Possible values:

Mand. • **Format** • • **authenticationType** • Type of

authentication method. Possible values:

Format • • **authenticationType** • Type of authentication method. Possible values:

• **authenticationType** • Type of authentication method. Possible values:

authenticationType • Type of authentication method. Possible values:

Type of authentication method. Possible values:

- SMS_OTP
- CHIP_OTP
- PHOTO_OTP
- PUSH_OTP

See annex 6.6 Types of authentication for more information. • String • MAN • E.g.

"authenticationType": "SMS_OTP" • • **authenticationVersion** • Version of the tool associated with the authenticationType. • String • COND • E.g.

"authenticationVersion": "1.0" • • **authenticationMethodId** • Id of the authentication method provided by the ASPSP. • String • MAN • ^.{1,35}\$

String • MAN • E.g.

"authenticationType": "SMS_OTP" • • **authenticationVersion** • Version of the tool associated with the authenticationType. • String • COND • E.g.

"authenticationVersion": "1.0" • • **authenticationMethodId** • Id of the authentication method provided by the ASPSP. • String • MAN • ^.{1,35}\$

MAN • E.g.

"authenticationType": "SMS_OTP" • • **authenticationVersion** • Version of the tool associated with the authenticationType. • String • COND • E.g.

"authenticationVersion": "1.0" • • **authenticationMethodId** • Id of the authentication method provided by the ASPSP. • String • MAN • ^.{1,35}\$

E.g.

"authenticationType": "SMS_OTP" • • **authenticationVersion** • Version of the tool associated with the authenticationType. • String • COND • E.g.

"authenticationVersion":"1.0" • • **authenticationMethodId**
d Id of the authentication method provided by the
 ASPSP. • String • MAN • ^.{1,35}\$

• **authenticationVersion** Version of the tool
 associated with the
 authenticationType. • String • COND • E.g.

"authenticationVersion":"1.0" • • **authenticationMethodId**
d Id of the authentication method provided by the
 ASPSP. • String • MAN • ^.{1,35}\$

authenticationVersion Version of the tool associated
 with the authenticationType. • String • COND • E.g.

"authenticationVersion":"1.0" • • **authenticationMethodId**
d Id of the authentication method provided by the
 ASPSP. • String • MAN • ^.{1,35}\$

Version of the tool associated with the
 authenticationType. • String • COND • E.g.

"authenticationVersion":"1.0" • • **authenticationMethodId**
d Id of the authentication method provided by the
 ASPSP. • String • MAN • ^.{1,35}\$

String • COND • E.g.

"authenticationVersion":"1.0" • • **authenticationMethodId**
d Id of the authentication method provided by the
 ASPSP. • String • MAN • ^.{1,35}\$

COND • E.g.

"authenticationVersion":"1.0" • • **authenticationMethodId**
d Id of the authentication method provided by the
 ASPSP. • String • MAN • ^.{1,35}\$

E.g.

"authenticationVersion":"1.0" • • **authenticationMethodId**
d Id of the authentication method provided by the
 ASPSP. • String • MAN • ^.{1,35}\$

• **authenticationMethodId** Id of the authentication
 method provided by the
 ASPSP. • String • MAN • ^.{1,35}\$

authenticationMethodId Id of the authentication
 method provided by the
 ASPSP. • String • MAN • ^.{1,35}\$

Id of the authentication method provided by the
 ASPSP. • String • MAN • ^.{1,35}\$

String • MAN • ^.{1,35}\$

MAN • ^.{1,35}\$

^.{1,35}\$

• • **name** • Name of the authentication method defined by the PSU in the ASPSP online banking.

• **name** • Name of the authentication method defined by the PSU in the ASPSP online banking.

name • Name of the authentication method defined by the PSU in the ASPSP online banking.

Name of the authentication method defined by the PSU in the ASPSP online banking.

It may also be a description provided by the ASPSP.

If the TPP has it available, it must present it to the PSU. • String • MAN • E.g. "name": "SMS OTP to phone

666777888" • • **explanation** • Detailed information about the SCA method for the PSU • String • OPT • • •

String • MAN • E.g. "name": "SMS OTP to phone 666777888" • • **explanation** • Detailed information

about the SCA method for the PSU • String • OPT • • • MAN • E.g. "name": "SMS OTP to phone

666777888" • • **explanation** • Detailed information about the SCA method for the PSU • String • OPT • • •

E.g. "name": "SMS OTP to phone 666777888" • • **explanation** • Detailed information

about the SCA method for the PSU • String • OPT • • • • **explanation** • Detailed information about the SCA

method for the PSU • String • OPT • • • **explanation** • Detailed information about the SCA

method for the PSU • String • OPT • • • Detailed information about the SCA method for the

PSU • String • OPT • • •

String • OPT • • •

OPT • • •

• •

•

5.8 Aspsp

Field • Description • Type • Man. • Format • • bic • BI
C code of the ASPSP. • String • MAN • E.g. "bic": "XXXXXXXXXXXX" • • **name** • Name of the

ASPSP • String • OPT • E.g. "name": "ASPSP Name" • •
Description • Type • Man. • Format • • bic BIC code of the ASPSP • String • MAN • E.g. "bic": "XXXXXXXXXXXX" • • **name** Name of the ASPSP • String • OPT • E.g. "name": "ASPSP Name" • •
Type • Man. • Format • • bic BIC code of the ASPSP • String • MAN • E.g. "bic": "XXXXXXXXXXXX" • • **name** Name of the ASPSP • String • OPT • E.g. "name": "ASPSP Name" • •
Man. • Format • • bic BIC code of the ASPSP • String • MAN • E.g. "bic": "XXXXXXXXXXXX" • • **name** Name of the ASPSP • String • OPT • E.g. "name": "ASPSP Name" • •
Format • • bic BIC code of the ASPSP • String • MAN • E.g. "bic": "XXXXXXXXXXXX" • • **name** Name of the ASPSP • String • OPT • E.g. "name": "ASPSP Name" • •
bic BIC code of the ASPSP • String • MAN • E.g. "bic": "XXXXXXXXXXXX" • • **name** Name of the ASPSP • String • OPT • E.g. "name": "ASPSP Name" • •
bic BIC code of the ASPSP • String • MAN • E.g. "bic": "XXXXXXXXXXXX" • • **name** Name of the ASPSP • String • OPT • E.g. "name": "ASPSP Name" • •
 BIC code of the ASPSP • String • MAN • E.g. "bic": "XXXXXXXXXXXX" • • **name** Name of the ASPSP • String • OPT • E.g. "name": "ASPSP Name" • •
 String • MAN • E.g. "bic": "XXXXXXXXXXXX" • • **name** Name of the ASPSP • String • OPT • E.g. "name": "ASPSP Name" • •
 MAN • E.g. "bic": "XXXXXXXXXXXX" • • **name** Name of the ASPSP • String • OPT • E.g. "name": "ASPSP Name" • •
name Name of the ASPSP • String • OPT • E.g. "name": "ASPSP Name" • •
 Name of the ASPSP • String • OPT • E.g. "name": "ASPSP Name" • •
 String • OPT • E.g. "name": "ASPSP Name" • •
 OPT • E.g. "name": "ASPSP Name" • •
 E.g. "name": "ASPSP Name" • •
 •

5.9 Balance

Field• Description• Type• Man.• Format• • balanceAmount•

Amount and currency of the balance• Amount• MAN• E.g. "balanceAmount":

{...}• • **balanceType**• Type of balance. Values supported in the annex • String• MAN• E.g.

"balanceType":

"closingBooked"• • **creditLimitIncluded**• A flag indicating if the credit limit of the corresponding account is included in the calculation of the balance, where applicable • Boolean• OPT• E.g.

"creditLimitIncluded":true• • **lastChangeDateTime**• Date of the last action carried out on the account. • String• OPT• **ISODateTime**

Description• Type• Man.• Format• • balanceAmount•

Amount and currency of the balance• Amount• MAN• E.g. "balanceAmount":

{...}• • **balanceType**• Type of balance. Values supported in the annex • String• MAN• E.g.

"balanceType":

"closingBooked"• • **creditLimitIncluded**• A flag indicating if the credit limit of the corresponding account is included in the calculation of the balance, where applicable • Boolean• OPT• E.g.

"creditLimitIncluded":true• • **lastChangeDateTime**• Date of the last action carried out on the account. • String• OPT• **ISODateTime**

Type• Man.• Format• • balanceAmount•

Amount and currency of the balance• Amount• MAN• E.g.

"balanceAmount": {...}• • **balanceType**• Type of balance. Values supported in the annex

• String• MAN• E.g. "balanceType":

"closingBooked"• • **creditLimitIncluded**• A flag indicating if the credit limit of the corresponding account is included in the calculation of the balance, where applicable • Boolean• OPT• E.g.

"creditLimitIncluded":true• • **lastChangeDateTime**• Date of the last action carried out on the account. • String• OPT• **ISODateTime**

Man.• Format• • balanceAmount• Amount and currency of the balance• Amount• MAN• E.g.

"balanceAmount": {...} • • **balanceType** • Type of balance. Values supported in the annex

• String • MAN • E.g. "balanceType":

"closingBooked" • • **creditLimitIncluded** • A flag indicating if the credit limit of the corresponding account is included in the calculation of the balance, where applicable

• Boolean • OPT • E.g.

"creditLimitIncluded":true • • **lastChangeDateTime** • Date of the last action carried out on the account. • String • OPT • **ISODateTime**

Format • • **balanceAmount** • Amount and currency of the balance • Amount • MAN • E.g. "balanceAmount":

{...} • • **balanceType** • Type of balance. Values supported in the annex • String • MAN • E.g.

"balanceType":

"closingBooked" • • **creditLimitIncluded** • A flag indicating if the credit limit of the corresponding account is included in the calculation of the balance, where applicable

• Boolean • OPT • E.g.

"creditLimitIncluded":true • • **lastChangeDateTime** • Date of the last action carried out on the account. • String • OPT • **ISODateTime**

• **balanceAmount** • Amount and currency of the balance • Amount • MAN • E.g. "balanceAmount":

{...} • • **balanceType** • Type of balance. Values supported in the annex • String • MAN • E.g.

"balanceType":

"closingBooked" • • **creditLimitIncluded** • A flag indicating if the credit limit of the corresponding account is included in the calculation of the balance, where applicable

• Boolean • OPT • E.g.

"creditLimitIncluded":true • • **lastChangeDateTime** • Date of the last action carried out on the account. • String • OPT • **ISODateTime**

balanceAmount • Amount and currency of the balance • Amount • MAN • E.g. "balanceAmount":

{...} • • **balanceType** • Type of balance. Values supported in the annex • String • MAN • E.g.

"balanceType":

"closingBooked" • • **creditLimitIncluded** • A flag indicating if the credit limit of the corresponding account is included in the calculation of the balance, where applicable

• Boolean • OPT • E.g.

"creditLimitIncluded":true • • **lastChangeDateTime** • Date of the last action carried out on the account. • String • OPT • **ISODateTime**

ate of the last action carried out on the account. • String • OPT • **ISODateTime**

Amount and currency of the balance • Amount • MAN • E.g. "balanceAmount": {...} • • **balanceType** • Type of balance. Values supported in the annex • String • MAN • E.g. "balanceType": "closingBooked" • • **creditLimitIncluded** • A flag indicating if the credit limit of the corresponding account is included in the calculation of the balance, where applicable • Boolean • OPT • E.g. "creditLimitIncluded":true • • **lastChangeDateTime** • Date of the last action carried out on the account. • String • OPT • **ISODateTime**

Amount • MAN • E.g. "balanceAmount": {...} • • **balanceType** • Type of balance. Values supported in the annex • String • MAN • E.g. "balanceType": "closingBooked" • • **creditLimitIncluded** • A flag indicating if the credit limit of the corresponding account is included in the calculation of the balance, where applicable • Boolean • OPT • E.g. "creditLimitIncluded":true • • **lastChangeDateTime** • Date of the last action carried out on the account. • String • OPT • **ISODateTime**

MAN • E.g. "balanceAmount": {...} • • **balanceType** • Type of balance. Values supported in the annex • String • MAN • E.g. "balanceType": "closingBooked" • • **creditLimitIncluded** • A flag indicating if the credit limit of the corresponding account is included in the calculation of the balance, where applicable • Boolean • OPT • E.g. "creditLimitIncluded":true • • **lastChangeDateTime** • Date of the last action carried out on the account. • String • OPT • **ISODateTime**

E.g. "balanceAmount": {...} • • **balanceType** • Type of balance. Values supported in the annex • String • MAN • E.g. "balanceType": "closingBooked" • • **creditLimitIncluded** • A flag indicating if the credit limit of the corresponding account is included in the calculation of the balance, where applicable • Boolean • OPT • E.g.

"creditLimitIncluded":true • • **lastChangeDateTime** • Date of the last action carried out on the account. • String • OPT • **ISODateTime**

• **balanceType** • Type of balance. Values supported in the annex • String • MAN • E.g. "balanceType":

"closingBooked" • • **creditLimitIncluded** • A flag indicating if the credit limit of the corresponding account is included in the calculation of the balance, where applicable

• Boolean • OPT • E.g.

"creditLimitIncluded":true • • **lastChangeDateTime** • Date of the last action carried out on the account. • String • OPT • **ISODateTime**

balanceType • Type of balance. Values supported in the annex • String • MAN • E.g. "balanceType":

"closingBooked" • • **creditLimitIncluded** • A flag indicating if the credit limit of the corresponding account is included in the calculation of the balance, where applicable

• Boolean • OPT • E.g.

"creditLimitIncluded":true • • **lastChangeDateTime** • Date of the last action carried out on the account. • String • OPT • **ISODateTime**

Type of balance. Values supported in the annex

• String • MAN • E.g. "balanceType":

"closingBooked" • • **creditLimitIncluded** • A flag indicating if the credit limit of the corresponding account is included in the calculation of the balance, where applicable

• Boolean • OPT • E.g.

"creditLimitIncluded":true • • **lastChangeDateTime** • Date of the last action carried out on the account. • String • OPT • **ISODateTime**

String • MAN • E.g. "balanceType":

"closingBooked" • • **creditLimitIncluded** • A flag indicating if the credit limit of the corresponding account is included in the calculation of the balance, where applicable

• Boolean • OPT • E.g.

"creditLimitIncluded":true • • **lastChangeDateTime** • Date of the last action carried out on the account. • String • OPT • **ISODateTime**

MAN • E.g. "balanceType":

"closingBooked" • • **creditLimitIncluded** • A flag indicating if the credit limit of the corresponding account is included in the calculation of the balance, where applicable

• Boolean • OPT • E.g.

"creditLimitIncluded":true • • **lastChangeDateTime** • Date of the last action carried out on the account. • String • OPT • **ISODateTime**

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"closingBooked" • • **creditLimitIncluded** • A flag indicating if the credit limit of the corresponding account is included in the calculation of the balance, where applicable • Boolean • OPT • E.g.

"creditLimitIncluded":true • • **lastChangeDateTime** • Date of the last action carried out on the account. • String • OPT • **ISODateTime**

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"creditLimitIncluded":true • • **lastChangeDateTime** • Date of the last action carried out on the account. • String • OPT • **ISODateTime**

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Boolean • OPT • E.g.

"creditLimitIncluded":true • • **lastChangeDateTime** • Date of the last action carried out on the account. • String • OPT • **ISODateTime**

OPT • E.g.

"creditLimitIncluded":true • • **lastChangeDateTime** • Date of the last action carried out on the account. • String • OPT • **ISODateTime**

E.g.

"creditLimitIncluded":true • • **lastChangeDateTime** • Date of the last action carried out on the account. • String • OPT • **ISODateTime**

• **lastChangeDateTime** • Date of the last action carried

out on the account. • String • OPT • **ISODateTime**

lastChangeDateTime • Date of the last action carried out on the account. • String • OPT • **ISODateTime**

Date of the last action carried out on the account. • String • OPT • **ISODateTime**

String • OPT • **ISODateTime**

OPT • **ISODateTime**

ISODateTime

E.g. "lastChangeDateTime": "2017-10-25T15:30:35.035Z" • • **referenceDate** • Reference date of the balance • String • OPT • **ISODate**

• **referenceDate** • Reference date of the balance • String • OPT • **ISODate**

referenceDate • Reference date of the balance • String • OPT • **ISODate**

Reference date of the balance • String • OPT • **ISODate**

String • OPT • **ISODate**

OPT • **ISODate**

ISODate

E.g. "referenceDate": "2017-10-25" • • **lastCommittedTransaction** • entryReference of the last committed transaction to support the TPP in identifying whether all PSU transactions are already known.

• String • OPT • **Max35Text**

• **lastCommittedTransaction** • entryReference of the last committed transaction to support the TPP in identifying whether all PSU transactions are already known.

• String • OPT • **Max35Text**

lastCommittedTransaction • entryReference of the last committed transaction to support the TPP in identifying whether all PSU transactions are already known.

• String • OPT • **Max35Text**

entryReference of the last committed transaction to support the TPP in identifying whether all PSU transactions are already known. • String • OPT • **Max35Text**

String • OPT • **Max35Text**

OPT • **Max35Text**

Max35Text

E.g. "lastCommittedTransaction": "1234-asd-567" • •

•

5.10 ExchangeRate

Field • Description • Type • Man. • Format • • currencyFrom • Source currency • String • MAN • E.g.

"currencyFrom": "USD" • • **rate** • Defines the exchange rate. E.g. currencyFrom=USD, currencyTo=EUR: 1USD =0.8 EUR and 0.8 is the fee. • String • MAN • E.g.

"rate": "0.8" • • **currencyTo** • Destination currency • String • MAN • E.g.

"currencyTo": "EUR" • • **rateDate** • Date of fee • String • MAN • **ISODateTame**

Description • Type • Man. • Format • • currencyFrom

• Source currency • String • MAN • E.g. "currencyFrom": "USD" • • **rate** • Defines the exchange rate. E.g. currencyFrom=USD, currencyTo=EUR: 1USD =0.8 EUR and 0.8 is the fee. • String • MAN • E.g.

"rate": "0.8" • • **currencyTo** • Destination currency • String • MAN • E.g.

"currencyTo": "EUR" • • **rateDate** • Date of fee • String • MAN • **ISODateTame**

Type • Man. • Format • • currencyFrom • Source currency • String • MAN • E.g.

"currencyFrom": "USD" • • **rate** • Defines the exchange rate. E.g. currencyFrom=USD, currencyTo=EUR: 1USD =0.8 EUR and 0.8 is the fee. • String • MAN • E.g.

"rate": "0.8" • • **currencyTo** • Destination currency • String • MAN • E.g.

"currencyTo": "EUR" • • **rateDate** • Date of fee • String • MAN • **ISODateTame**

Man. • Format • • currencyFrom • Source currency • String • MAN • E.g.

"currencyFrom": "USD" • • **rate** • Defines the exchange

rate. E.g. currencyFrom=USD, currencyTo=EUR: 1USD
=0.8 EUR and 0.8 is the fee. • String • MAN • E.g.
"rate": "0.8" • • **currencyTo** • Destination
currency • String • MAN • E.g.
"currencyTo": "EUR" • • **rateDate** • Date of
fee • String • MAN • **ISODateTame**

Format • • **currencyFrom** • Source
currency • String • MAN • E.g.
"currencyFrom": "USD" • • **rate** • Defines the exchange
rate. E.g. currencyFrom=USD, currencyTo=EUR: 1USD
=0.8 EUR and 0.8 is the fee. • String • MAN • E.g.
"rate": "0.8" • • **currencyTo** • Destination
currency • String • MAN • E.g.
"currencyTo": "EUR" • • **rateDate** • Date of
fee • String • MAN • **ISODateTame**

• **currencyFrom** • Source currency • String • MAN • E.g.
"currencyFrom": "USD" • • **rate** • Defines the exchange
rate. E.g. currencyFrom=USD, currencyTo=EUR: 1USD
=0.8 EUR and 0.8 is the fee. • String • MAN • E.g.
"rate": "0.8" • • **currencyTo** • Destination
currency • String • MAN • E.g.
"currencyTo": "EUR" • • **rateDate** • Date of
fee • String • MAN • **ISODateTame**

currencyFrom • Source currency • String • MAN • E.g.
"currencyFrom": "USD" • • **rate** • Defines the exchange
rate. E.g. currencyFrom=USD, currencyTo=EUR: 1USD
=0.8 EUR and 0.8 is the fee. • String • MAN • E.g.
"rate": "0.8" • • **currencyTo** • Destination
currency • String • MAN • E.g.
"currencyTo": "EUR" • • **rateDate** • Date of
fee • String • MAN • **ISODateTame**

Source currency • String • MAN • E.g.
"currencyFrom": "USD" • • **rate** • Defines the exchange
rate. E.g. currencyFrom=USD, currencyTo=EUR: 1USD
=0.8 EUR and 0.8 is the fee. • String • MAN • E.g.
"rate": "0.8" • • **currencyTo** • Destination
currency • String • MAN • E.g.
"currencyTo": "EUR" • • **rateDate** • Date of
fee • String • MAN • **ISODateTame**

String • MAN • E.g.
"currencyFrom": "USD" • • **rate** • Defines the exchange
rate. E.g. currencyFrom=USD, currencyTo=EUR: 1USD
=0.8 EUR and 0.8 is the fee. • String • MAN • E.g.

"rate": "0.8" • • **currencyTo** Destination
currency • String • MAN • E.g.
"currencyTo": "EUR" • • **rateDate** Date of
fee • String • MAN • **ISODateTame**

MAN • E.g. "currencyFrom": "USD" • • **rate** Defines the
exchange rate. E.g. currencyFrom=USD,
currencyTo=EUR: 1USD =0.8 EUR and 0.8 is the
fee. • String • MAN • E.g.

"rate": "0.8" • • **currencyTo** Destination
currency • String • MAN • E.g.
"currencyTo": "EUR" • • **rateDate** Date of
fee • String • MAN • **ISODateTame**

E.g. "currencyFrom": "USD" • • **rate** Defines the
exchange rate. E.g. currencyFrom=USD,
currencyTo=EUR: 1USD =0.8 EUR and 0.8 is the
fee. • String • MAN • E.g.

"rate": "0.8" • • **currencyTo** Destination
currency • String • MAN • E.g.
"currencyTo": "EUR" • • **rateDate** Date of
fee • String • MAN • **ISODateTame**

• **rate** Defines the exchange rate. E.g.
currencyFrom=USD, currencyTo=EUR: 1USD =0.8 EUR
and 0.8 is the fee. • String • MAN • E.g.

"rate": "0.8" • • **currencyTo** Destination
currency • String • MAN • E.g.
"currencyTo": "EUR" • • **rateDate** Date of
fee • String • MAN • **ISODateTame**

rate Defines the exchange rate. E.g.
currencyFrom=USD, currencyTo=EUR: 1USD =0.8 EUR
and 0.8 is the fee. • String • MAN • E.g.

"rate": "0.8" • • **currencyTo** Destination
currency • String • MAN • E.g.
"currencyTo": "EUR" • • **rateDate** Date of
fee • String • MAN • **ISODateTame**

Defines the exchange rate. E.g. currencyFrom=USD,
currencyTo=EUR: 1USD =0.8 EUR and 0.8 is the
fee. • String • MAN • E.g.

"rate": "0.8" • • **currencyTo** Destination
currency • String • MAN • E.g.
"currencyTo": "EUR" • • **rateDate** Date of
fee • String • MAN • **ISODateTame**

String • MAN • E.g.

"rate": "0.8" • • **currencyTo** Destination
currency • String • MAN • E.g.
"currencyTo": "EUR" • • **rateDate** Date of
fee • String • MAN • **ISODateTame**

MAN • E.g. "rate": "0.8" • • **currencyTo** Destination
currency • String • MAN • E.g.
"currencyTo": "EUR" • • **rateDate** Date of
fee • String • MAN • **ISODateTame**

E.g. "rate": "0.8" • • **currencyTo** Destination
currency • String • MAN • E.g.
"currencyTo": "EUR" • • **rateDate** Date of
fee • String • MAN • **ISODateTame**

• **currencyTo** Destination
currency • String • MAN • E.g.
"currencyTo": "EUR" • • **rateDate** Date of
fee • String • MAN • **ISODateTame**

currencyTo Destination currency • String • MAN • E.g.
"currencyTo": "EUR" • • **rateDate** Date of
fee • String • MAN • **ISODateTame**

Destination currency • String • MAN • E.g.
"currencyTo": "EUR" • • **rateDate** Date of
fee • String • MAN • **ISODateTame**

String • MAN • E.g.
"currencyTo": "EUR" • • **rateDate** Date of
fee • String • MAN • **ISODateTame**

MAN • E.g. "currencyTo": "EUR" • • **rateDate** Date of
fee • String • MAN • **ISODateTame**

E.g. "currencyTo": "EUR" • • **rateDate** Date of
fee • String • MAN • **ISODateTame**

• **rateDate** Date of fee • String • MAN • **ISODateTame**

rateDate Date of fee • String • MAN • **ISODateTame**

Date of fee • String • MAN • **ISODateTame**

String • MAN • **ISODateTame**

MAN • **ISODateTame**

ISODateTame

• • **rateContract** Reference to the fee
contract • String • OPT • • •

• **rateContract** Reference to the fee

contract• String• OPT• • •

rateContract• Reference to the fee

contract• String• OPT• • •

Reference to the fee contract• String• OPT• • •

String• OPT• • •

OPT• • •

• •

•

5.11 Href

Field• Description• Type• Man.• Format• • href• C
contains a link to a resource• String• OPT• E.g. "href":
"/v1/payments/sepa-credit-transfers/asd-1234-jkl"• •

Description• Type• Man.• Format• • href• Contains
a link to a resource• String• OPT• E.g. "href":
"/v1/payments/sepa-credit-transfers/asd-1234-jkl"• •

Type• Man.• Format• • href• Contains a link to a
resource• String• OPT• E.g. "href":
"/v1/payments/sepa-credit-transfers/asd-1234-jkl"• •

Man.• Format• • href• Contains a link to a
resource• String• OPT• E.g. "href":
"/v1/payments/sepa-credit-transfers/asd-1234-jkl"• •

Format• • href• Contains a link to a
resource• String• OPT• E.g. "href":
"/v1/payments/sepa-credit-transfers/asd-1234-jkl"• •

• **href•** Contains a link to a resource• String• OPT• E.g.
"href": "/v1/payments/sepa-credit-transfers/asd-1234-
jkl"• •

href• Contains a link to a resource• String• OPT• E.g.
"href": "/v1/payments/sepa-credit-transfers/asd-1234-
jkl"• •

Contains a link to a resource• String• OPT• E.g. "href":
"/v1/payments/sepa-credit-transfers/asd-1234-jkl"• •

String• OPT• E.g. "href": "/v1/payments/sepa-credit-
transfers/asd-1234-jkl"• •

OPT• E.g. "href": "/v1/payments/sepa-credit-transfers/asd-1234-jkl"• •

E.g. "href": "/v1/payments/sepa-credit-transfers/asd-1234-jkl"• •

•

5.12 Links

Field• Description• Type• Man.• Format• • scaRedirect• URL used to carry out the SCA, through redirecting the PSU navigator. • Href• OPT• E.g. "scaRedirect": {...}• • **startAuthorisation•** Link to the endpoint where the authorisation of the transaction or the authorisation of the cancellation transaction must be initiated. • Href• OPT• E.g. "startAuthorisation": {...}• • **startAuthorisationWithAuthenticationMethodSelection•** Link to the endpoint where the authorisation of a transaction or cancellation transaction must be initiated, where the SCA method must be informed with the corresponding call. • Href• OPT• E.g. "startAuthorisationWithAuthenticationMethodSelection": {...}• • **selectAuthenticationMethod•** Link where the TPP may select the 2-factor authentication method applicable for the PSU, if there is more than one. • Href• OPT• E.g. "selectAuthenticationMethod": {...}• • **self•** The link to the resource created for the request. This link may be used subsequently to recover the transaction status. • Href• OPT• E.g. "self": {...}• • **status•** The link to recover the transaction status. For example, payment initiation status. • Href• OPT• E.g. "status": {...}• • **account•** Link to the resource that provides the information on an account. • Href• OPT• E.g. "account": {...}• • **balances•** Link to the resource that provides the account balances. • Href• OPT• E.g. "balances": {...}• • **transactions•** Link to the resource that provides the account activity. • Href• OPT• E.g. "transactions": {...}• • **first•** Navigation link for reports on paginated accounts. • Href• OPT• E.g. "first": {...}• • **next•** Navigation link for reports on paginated

accounts. • Href • OPT • E.g. "next":
{...} • • **previous** • Navigation link for reports on
paginated accounts. • Href • OPT • E.g. "previous":
{...} • • **last** • Navigation link for reports on paginated
accounts. • Href • OPT • E.g. "last":
{...} • • **download** • Download link for large AIS data
packages. Only for camt-data. • Href • OPT • E.g.
"download": {...} • •

Description • Type • Man. • Format • • scaRedirect •

Type • Man. • Format • • scaRedirect • URL used to
carry out the SCA, through redirecting the PSU
navigator. • Href • OPT • E.g. "scaRedirect":

{...} • • **startAuthorisation** • Link to the endpoint
where the authorisation of the transaction or the
authorisation of the cancellation transaction must be
initiated. • Href • OPT • E.g.

"startAuthorisation": {...} • • **startAuthorisationWithA**

uthenticationMethodSelection • Link to the endpoint
where the authorisation of a transaction or cancellation
transaction must be initiated, where the SCA method
must be informed with the corresponding
call. • Href • OPT • E.g. "

startAuthorisationWithAuthenticationMethodSelection ":

{...} • • **selectAuthenticationMethod** • Link where the
TPP may select the 2-factor authentication method
applicable for the PSU, if there is more than

one. • Href • OPT • E.g. "selectAuthenticationMethod":

{...} • • **self** • The link to the resource created for the
request. This link may be used subsequently to recover
the transaction status. • Href • OPT • E.g. "self":

{...} • • **status** • The link to recover the transaction
status. For example, payment initiation
status. • Href • OPT • E.g. "status":

{...} • • **account** • Link to the resource that provides the
information on an account. • Href • OPT • E.g. "account":

{...} • • **balances** • Link to the resource that provides
the account balances. • Href • OPT • E.g. "balances":

{...} • • **transactions** • Link to the resource that
provides the account activity. • Href • OPT • E.g.

"transactions": {...} • • **first** • Navigation link for reports
on paginated accounts. • Href • OPT • E.g. "first":

{...} • • **next** • Navigation link for reports on paginated
accounts. • Href • OPT • E.g. "next":

{...} • • **previous** • Navigation link for reports on

paginated accounts. • Href • OPT • E.g. "previous":
{...} • • **last** • Navigation link for reports on paginated
accounts. • Href • OPT • E.g. "last":
{...} • • **download** • Download link for large AIS data
packages. Only for camt-data. • Href • OPT • E.g.
"download": {...} • •

Man. • Format • • scaRedirect • URL used to carry out
the SCA, through redirecting the PSU
navigator. • Href • OPT • E.g. "scaRedirect":

{...} • • **startAuthorisation** • Link to the endpoint
where the authorisation of the transaction or the
authorisation of the cancellation transaction must be
initiated. • Href • OPT • E.g.

"startAuthorisation": {...} • • **startAuthorisationWithA
uthenticationMethodSelection** • Link to the endpoint
where the authorisation of a transaction or cancellation
transaction must be initiated, where the SCA method
must be informed with the corresponding
call. • Href • OPT • E.g. "

startAuthorisationWithAuthenticationMethodSelection":
{...} • • **selectAuthenticationMethod** • Link where the
TPP may select the 2-factor authentication method
applicable for the PSU, if there is more than
one. • Href • OPT • E.g. "selectAuthenticationMethod":

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request. This link may be used subsequently to recover
the transaction status. • Href • OPT • E.g. "self":

{...} • • **status** • The link to recover the transaction
status. For example, payment initiation
status. • Href • OPT • E.g. "status":

{...} • • **account** • Link to the resource that provides the
information on an account. • Href • OPT • E.g. "account":

{...} • • **balances** • Link to the resource that provides
the account balances. • Href • OPT • E.g. "balances":

{...} • • **transactions** • Link to the resource that
provides the account activity. • Href • OPT • E.g.

"transactions": {...} • • **first** • Navigation link for reports
on paginated accounts. • Href • OPT • E.g. "first":

{...} • • **next** • Navigation link for reports on paginated
accounts. • Href • OPT • E.g. "next":

{...} • • **previous** • Navigation link for reports on
paginated accounts. • Href • OPT • E.g. "previous":

{...} • • **last** • Navigation link for reports on paginated
accounts. • Href • OPT • E.g. "last":

{...} • • **download** • Download link for large AIS data packages. Only for camt-data. • Href • OPT • E.g. "download": {...} • •

Format • • **scaRedirect** • URL used to carry out the SCA, through redirecting the PSU navigator. • Href • OPT • E.g. "scaRedirect":

{...} • • **startAuthorisation** • Link to the endpoint where the authorisation of the transaction or the authorisation of the cancellation transaction must be initiated. • Href • OPT • E.g.

"startAuthorisation": {...} • • **startAuthorisationWithAuthenticationMethodSelection** • Link to the endpoint where the authorisation of a transaction or cancellation transaction must be initiated, where the SCA method must be informed with the corresponding call. • Href • OPT • E.g. "

startAuthorisationWithAuthenticationMethodSelection ": {...} • • **selectAuthenticationMethod** • Link where the TPP may select the 2-factor authentication method applicable for the PSU, if there is more than one. • Href • OPT • E.g. "selectAuthenticationMethod":

{...} • • **self** • The link to the resource created for the request. This link may be used subsequently to recover the transaction status. • Href • OPT • E.g. "self":

{...} • • **status** • The link to recover the transaction status. For example, payment initiation status. • Href • OPT • E.g. "status":

{...} • • **account** • Link to the resource that provides the information on an account. • Href • OPT • E.g. "account":

{...} • • **balances** • Link to the resource that provides the account balances. • Href • OPT • E.g. "balances":

{...} • • **transactions** • Link to the resource that provides the account activity. • Href • OPT • E.g.

"transactions": {...} • • **first** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "first":

{...} • • **next** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "next":

{...} • • **previous** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "previous":

{...} • • **last** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "last":

{...} • • **download** • Download link for large AIS data packages. Only for camt-data. • Href • OPT • E.g. "download": {...} • •

- **scaRedirect**• URL used to carry out the SCA, through redirecting the PSU navigator. • Href• OPT• E.g. "scaRedirect": {...}•
- **startAuthorisation**• Link to the endpoint where the authorisation of the transaction or the authorisation of the cancellation transaction must be initiated. • Href• OPT• E.g. "startAuthorisation": {...}•
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- **selectAuthenticationMethod**• Link where the TPP may select the 2-factor authentication method applicable for the PSU, if there is more than one. • Href• OPT• E.g. "selectAuthenticationMethod": {...}•
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- **account**• Link to the resource that provides the information on an account. • Href• OPT• E.g. "account": {...}•
- **balances**• Link to the resource that provides the account balances. • Href• OPT• E.g. "balances": {...}•
- **transactions**• Link to the resource that provides the account activity. • Href• OPT• E.g. "transactions": {...}•
- **first**• Navigation link for reports on paginated accounts. • Href• OPT• E.g. "first": {...}•
- **next**• Navigation link for reports on paginated accounts. • Href• OPT• E.g. "next": {...}•
- **previous**• Navigation link for reports on paginated accounts. • Href• OPT• E.g. "previous": {...}•
- **last**• Navigation link for reports on paginated accounts. • Href• OPT• E.g. "last": {...}•
- **download**• Download link for large AIS data packages. Only for camt-data. • Href• OPT• E.g. "download": {...}•

scaRedirect• URL used to carry out the SCA, through redirecting the PSU navigator. • Href• OPT• E.g. "scaRedirect": {...}•

• **startAuthorisation**• Link to the endpoint where the authorisation of the transaction or

the authorisation of the cancellation transaction must be initiated. • Href• OPT• E.g.

"startAuthorisation": {...} • • **startAuthorisationWithAuthenticationMethodSelection**• Link to the endpoint where the authorisation of a transaction or cancellation transaction must be initiated, where the SCA method must be informed with the corresponding call. • Href• OPT• E.g. "

startAuthorisationWithAuthenticationMethodSelection ": {...} • • **selectAuthenticationMethod**• Link where the TPP may select the 2-factor authentication method applicable for the PSU, if there is more than

one. • Href• OPT• E.g. "selectAuthenticationMethod":

{...} • • **self**• The link to the resource created for the request. This link may be used subsequently to recover the transaction status. • Href• OPT• E.g. "self":

{...} • • **status**• The link to recover the transaction status. For example, payment initiation status. • Href• OPT• E.g. "status":

{...} • • **account**• Link to the resource that provides the information on an account. • Href• OPT• E.g. "account":

{...} • • **balances**• Link to the resource that provides the account balances. • Href• OPT• E.g. "balances":

{...} • • **transactions**• Link to the resource that provides the account activity. • Href• OPT• E.g.

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{...} • • **previous**• Navigation link for reports on paginated accounts. • Href• OPT• E.g. "previous":

{...} • • **last**• Navigation link for reports on paginated accounts. • Href• OPT• E.g. "last":

{...} • • **download**• Download link for large AIS data packages. Only for camt-data. • Href• OPT• E.g.

"download": {...} • •

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{...} • • **previous** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "previous":

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"download": {...} • •

Href • OPT • E.g. "scaRedirect":

{...} • • **startAuthorisation** • Link to the endpoint where the authorisation of the transaction or the authorisation of the cancellation transaction must be initiated. • Href • OPT • E.g.

"startAuthorisation": {...} • • **startAuthorisationWithA**

uthenticationMethodSelection • Link to the endpoint where the authorisation of a transaction or cancellation transaction must be initiated, where the SCA method must be informed with the corresponding

call. • Href • OPT • E.g. "

startAuthorisationWithAuthenticationMethodSelection ":

{...} • • **selectAuthenticationMethod** • Link where the TPP may select the 2-factor authentication method applicable for the PSU, if there is more than one. • Href • OPT • E.g. "selectAuthenticationMethod":
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authorisation of the transaction or the authorisation of
the cancellation transaction must be initiated.

• Href • OPT • E.g.

"startAuthorisation": {...} • • **startAuthorisationWithA
uthenticationMethodSelection** • Link to the endpoint
where the authorisation of a transaction or cancellation
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Href • OPT • E.g. "startAuthorisation": {...} • • **startAuthorisationWithAuthenticationMethodSelection** • Link to the endpoint

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{...} • • **next** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "next":
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OPT • E.g. "

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{...} • • **transactions** • Link to the resource that provides the account activity. • Href • OPT • E.g.

"transactions": {...} • • **first** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "first":

{...} • • **next** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "next":

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Link to the resource that provides the information on an account. • Href • OPT • E.g. "account":
 {...} • • **balances** • Link to the resource that provides the account balances. • Href • OPT • E.g. "balances":
 {...} • • **transactions** • Link to the resource that provides the account activity. • Href • OPT • E.g. "transactions": {...} • • **first** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "first":
 {...} • • **next** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "next":
 {...} • • **previous** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "previous":
 {...} • • **last** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "last":
 {...} • • **download** • Download link for large AIS data packages. Only for camt-data. • Href • OPT • E.g. "download": {...} • •

Href • OPT • E.g. "account": {...} • • **balances** • Link to the resource that provides the account balances. • Href • OPT • E.g. "balances":
 {...} • • **transactions** • Link to the resource that provides the account activity. • Href • OPT • E.g. "transactions": {...} • • **first** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "first":
 {...} • • **next** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "next":
 {...} • • **previous** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "previous":
 {...} • • **last** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "last":
 {...} • • **download** • Download link for large AIS data packages. Only for camt-data. • Href • OPT • E.g.

"download": {...} • •

OPT • E.g. "account": {...} • • **balances** • Link to the resource that provides the account balances. • Href • OPT • E.g. "balances": {...} • • **transactions** • Link to the resource that provides the account activity. • Href • OPT • E.g. "transactions": {...} • • **first** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "first": {...} • • **next** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "next": {...} • • **previous** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "previous": {...} • • **last** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "last": {...} • • **download** • Download link for large AIS data packages. Only for camt-data. • Href • OPT • E.g. "download": {...} • •

E.g. "account": {...} • • **balances** • Link to the resource that provides the account balances. • Href • OPT • E.g. "balances": {...} • • **transactions** • Link to the resource that provides the account activity. • Href • OPT • E.g. "transactions": {...} • • **first** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "first": {...} • • **next** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "next": {...} • • **previous** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "previous": {...} • • **last** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "last": {...} • • **download** • Download link for large AIS data packages. Only for camt-data. • Href • OPT • E.g. "download": {...} • •

• **balances** • Link to the resource that provides the account balances. • Href • OPT • E.g. "balances": {...} • • **transactions** • Link to the resource that provides the account activity. • Href • OPT • E.g. "transactions": {...} • • **first** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "first": {...} • • **next** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "next": {...} • • **previous** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "previous": {...} • • **last** • Navigation link for reports on paginated

accounts. • Href • OPT • E.g. "last":
{...} • • **download** • Download link for large AIS data packages. Only for camt-data. • Href • OPT • E.g. "download": {...} • •

balances • Link to the resource that provides the account balances. • Href • OPT • E.g. "balances": {...} • • **transactions** • Link to the resource that provides the account activity. • Href • OPT • E.g. "transactions": {...} • • **first** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "first": {...} • • **next** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "next": {...} • • **previous** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "previous": {...} • • **last** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "last": {...} • • **download** • Download link for large AIS data packages. Only for camt-data. • Href • OPT • E.g. "download": {...} • •

Link to the resource that provides the account balances. • Href • OPT • E.g. "balances": {...} • • **transactions** • Link to the resource that provides the account activity. • Href • OPT • E.g. "transactions": {...} • • **first** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "first": {...} • • **next** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "next": {...} • • **previous** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "previous": {...} • • **last** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "last": {...} • • **download** • Download link for large AIS data packages. Only for camt-data. • Href • OPT • E.g. "download": {...} • •

Href • OPT • E.g. "balances": {...} • • **transactions** • Link to the resource that provides the account activity. • Href • OPT • E.g. "transactions": {...} • • **first** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "first": {...} • • **next** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "next": {...} • • **previous** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "previous":

{...} • • **last** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "last":

{...} • • **download** • Download link for large AIS data packages. Only for camt-data. • Href • OPT • E.g. "download": {...} • •

OPT • E.g. "balances": {...} • • **transactions** • Link to the resource that provides the account activity. • Href • OPT • E.g. "transactions":

{...} • • **first** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "first":

{...} • • **next** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "next":

{...} • • **previous** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "previous":

{...} • • **last** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "last":

{...} • • **download** • Download link for large AIS data packages. Only for camt-data. • Href • OPT • E.g. "download": {...} • •

E.g. "balances": {...} • • **transactions** • Link to the resource that provides the account activity. • Href • OPT • E.g. "transactions":

{...} • • **first** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "first":

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{...} • • **download** • Download link for large AIS data packages. Only for camt-data. • Href • OPT • E.g. "download": {...} • •

• **transactions** • Link to the resource that provides the account activity. • Href • OPT • E.g. "transactions":

{...} • • **first** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "first":

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{...} • • **last** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "last":

{...} • • **download** • Download link for large AIS data packages. Only for camt-data. • Href • OPT • E.g. "download": {...} • •

transactions • Link to the resource that provides the account activity. • Href • OPT • E.g. "transactions": {...} • • **first** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "first": {...} • • **next** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "next": {...} • • **previous** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "previous": {...} • • **last** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "last": {...} • • **download** • Download link for large AIS data packages. Only for camt-data. • Href • OPT • E.g. "download": {...} • •

Link to the resource that provides the account activity. • Href • OPT • E.g. "transactions": {...} • • **first** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "first": {...} • • **next** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "next": {...} • • **previous** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "previous": {...} • • **last** • Navigation link for reports on paginated accounts. • Href • OPT • E.g. "last": {...} • • **download** • Download link for large AIS data packages. Only for camt-data. • Href • OPT • E.g. "download": {...} • •

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Download link for large AIS data packages. Only for
camt-data. • Href • OPT • E.g. "download": {...} • •

Href • OPT • E.g. "download": {...} • •

OPT • E.g. "download": {...} • •

E.g. "download": {...} • •

•

5.13 PaymentExchangeRate

**Field • Description • Type • Man. • Format • • unitCur
rency** • Currency in which the rate of exchange is
expressed in a currency exchange. In the example 1EUR
= xxxCUR, the unit currency is EUR.

Description • Type • Man. • Format • • unitCurrency

• Currency in which the rate of exchange is expressed in a currency exchange. In the example 1EUR = xxxCUR, the unit currency is EUR.

Type • Man. • Format • • unitCurrency Currency in which the rate of exchange is expressed in a currency exchange. In the example 1EUR = xxxCUR, the unit currency is EUR.

Man. • Format • • unitCurrency Currency in which the rate of exchange is expressed in a currency exchange. In the example 1EUR = xxxCUR, the unit currency is EUR.

Format • • unitCurrency Currency in which the rate of exchange is expressed in a currency exchange. In the example 1EUR = xxxCUR, the unit currency is EUR.

• **unitCurrency** Currency in which the rate of exchange is expressed in a currency exchange. In the example 1EUR = xxxCUR, the unit currency is EUR.

unitCurrency Currency in which the rate of exchange is expressed in a currency exchange. In the example 1EUR = xxxCUR, the unit currency is EUR.

Currency in which the rate of exchange is expressed in a currency exchange. In the example 1EUR = xxxCUR, the unit currency is EUR.

• String • OPT • **ISO 4217**

String • OPT • **ISO 4217**

OPT • **ISO 4217**

ISO 4217

E.g. "unitCurrency": "EUR" • • **exchangeRate** Factor used to convert an amount from one currency into another. This reflects the price at which one currency was bought with another currency.

• **exchangeRate** Factor used to convert an amount from one currency into another. This reflects the price at which one currency was bought with another currency.

exchangeRate Factor used to convert an amount from one currency into another. This reflects the price at which one currency was bought with another currency.

Factor used to convert an amount from one currency

into another. This reflects the price at which one currency was bought with another currency.

• String • OPT • E.g. "exchangeRate":
"1.3" • • **contractIdentification** • Unique identification to unambiguously identify the foreign exchange contract.

String • OPT • E.g. "exchangeRate":
"1.3" • • **contractIdentification** • Unique identification to unambiguously identify the foreign exchange contract.

OPT • E.g. "exchangeRate":
"1.3" • • **contractIdentification** • Unique identification to unambiguously identify the foreign exchange contract.

E.g. "exchangeRate":
"1.3" • • **contractIdentification** • Unique identification to unambiguously identify the foreign exchange contract.

• **contractIdentification** • Unique identification to unambiguously identify the foreign exchange contract.

contractIdentification • Unique identification to unambiguously identify the foreign exchange contract.

Unique identification to unambiguously identify the foreign exchange contract.

• String • OPT • E.g. "contractIdentification": "1234-geru-23" • • **rateType** • Specifies the type used to complete the currency exchange.

String • OPT • E.g. "contractIdentification": "1234-geru-23" • • **rateType** • Specifies the type used to complete the currency exchange.

OPT • E.g. "contractIdentification": "1234-geru-23" • • **rateType** • Specifies the type used to complete the currency exchange.

E.g. "contractIdentification": "1234-geru-23" • • **rateType** • Specifies the type used to complete the currency exchange.

• **rateType** • Specifies the type used to complete the currency exchange.

rateType • Specifies the type used to complete the

currency exchange.

Specifies the type used to complete the currency exchange.

Permitted values:

- SPOT
- SALE
- AGRD • String • OPT • E.g. "rateType": "SPOT" • •
- String • OPT • E.g. "rateType": "SPOT" • •
- OPT • E.g. "rateType": "SPOT" • •
- E.g. "rateType": "SPOT" • •
-

5.14 ReportExchangeRate

Field • Description • Type • Man. • Format • • source
Currency • Currency from which an amount is to be converted in a currency conversion. • String • MAN • **ISO 4217**

Description • Type • Man. • Format • • source
Currency • Currency from which an amount is to be converted in a currency conversion. • String • MAN • **ISO 4217**

Type • Man. • Format • • source
Currency • Currency from which an amount is to be converted in a currency conversion. • String • MAN • **ISO 4217**

Man. • Format • • source
Currency • Currency from which an amount is to be converted in a currency conversion. • String • MAN • **ISO 4217**

Format • • source
Currency • Currency from which an amount is to be converted in a currency conversion. • String • MAN • **ISO 4217**

• **source**
Currency • Currency from which an amount is to be converted in a currency

conversion. • String • MAN • **ISO 4217**

sourceCurrency • Currency from which an amount is to be converted in a currency

conversion. • String • MAN • **ISO 4217**

Currency from which an amount is to be converted in a currency conversion. • String • MAN • **ISO 4217**

String • MAN • **ISO 4217**

MAN • **ISO 4217**

ISO 4217

E.g. "sourceCurrency":

"EUR" • • **exchangeRate** • Factor used to convert an amount from one currency into another. This reflects the price at which one currency was bought with another currency. • String • MAN • E.g. "exchangeRate": "1.3" • • **unitCurrency** • Currency in which the rate of exchange is expressed in a currency exchange. In the example 1EUR = xxxCUR, the unit currency is EUR.

• String • MAN • **ISO 4217**

• **exchangeRate** • Factor used to convert an amount from one currency into another. This reflects the price at which one currency was bought with another currency.

• String • MAN • E.g. "exchangeRate": "1.3" • • **unitCurrency** • Currency in which the rate of exchange is expressed in a currency exchange. In the example 1EUR = xxxCUR, the unit currency is EUR.

• String • MAN • **ISO 4217**

exchangeRate • Factor used to convert an amount from one currency into another. This reflects the price at which one currency was bought with another currency.

• String • MAN • E.g. "exchangeRate":

"1.3" • • **unitCurrency** • Currency in which the rate of exchange is expressed in a currency exchange. In the example 1EUR = xxxCUR, the unit currency is EUR.

• String • MAN • **ISO 4217**

Factor used to convert an amount from one currency into another. This reflects the price at which one currency was bought with another currency.

• String • MAN • E.g. "exchangeRate":

"1.3" • • **unitCurrency** • Currency in which the rate of exchange is expressed in a currency exchange. In the example 1EUR = xxxCUR, the unit currency is EUR.

- String• MAN• **ISO 4217**

String• MAN• E.g. "exchangeRate":

"1.3"• • **unitCurrency**• Currency in which the rate of exchange is expressed in a currency exchange. In the example 1EUR = xxxCUR, the unit currency is EUR.

- String• MAN• **ISO 4217**

MAN• E.g. "exchangeRate":

"1.3"• • **unitCurrency**• Currency in which the rate of exchange is expressed in a currency exchange. In the example 1EUR = xxxCUR, the unit currency is EUR.

- String• MAN• **ISO 4217**

E.g. "exchangeRate": "1.3"• • **unitCurrency**• Currency in which the rate of exchange is expressed in a currency exchange. In the example 1EUR = xxxCUR, the unit currency is EUR. • String• MAN• **ISO 4217**

- **unitCurrency**• Currency in which the rate of exchange is expressed in a currency exchange. In the example 1EUR = xxxCUR, the unit currency is EUR.

- String• MAN• **ISO 4217**

unitCurrency• Currency in which the rate of exchange is expressed in a currency exchange. In the example 1EUR = xxxCUR, the unit currency is EUR.

- String• MAN• **ISO 4217**

Currency in which the rate of exchange is expressed in a currency exchange. In the example 1EUR = xxxCUR, the unit currency is EUR. • String• MAN• **ISO 4217**

String• MAN• **ISO 4217**

MAN• **ISO 4217**

ISO 4217

E.g. "unitCurrency":

"EUR"• • **targetCurrency**• Currency into which an amount is to be converted in a currency conversion.

- String• MAN• **ISO 4217**

- **targetCurrency**• Currency into which an amount is to be converted in a currency conversion.

- String• MAN• **ISO 4217**

targetCurrency• Currency into which an amount is to be converted in a currency conversion.

- String• MAN• **ISO 4217**

Currency into which an amount is to be converted in a currency conversion. • String • MAN • **ISO 4217**

String • MAN • **ISO 4217**

MAN • **ISO 4217**

ISO 4217

E.g. "targetCurrency": "USD" • • **quotationDate** • Date at which an exchange rate is quoted. Date on

• String • MAN • **ISODate**

• **quotationDate** • Date at which an exchange rate is quoted. Date on • String • MAN • **ISODate**

quotationDate • Date at which an exchange rate is quoted. Date on • String • MAN • **ISODate**

Date at which an exchange rate is quoted. Date on

• String • MAN • **ISODate**

String • MAN • **ISODate**

MAN • **ISODate**

ISODate

E.g. "quotationDate": "2019-01-24" • • **contractIdentification** • Unique identification to unambiguously identify the foreign exchange contract.

• String • OPT • E.g. "contractIdentification": "1234-qeru-23" • •

• **contractIdentification** • Unique identification to unambiguously identify the foreign exchange contract.

• String • OPT • E.g. "contractIdentification": "1234-qeru-23" • •

contractIdentification • Unique identification to unambiguously identify the foreign exchange contract.

• String • OPT • E.g. "contractIdentification": "1234-qeru-23" • •

Unique identification to unambiguously identify the foreign exchange contract. • String • OPT • E.g. "contractIdentification": "1234-qeru-23" • •

String • OPT • E.g. "contractIdentification": "1234-qeru-23" • •

OPT • E.g. "contractIdentification": "1234-qeru-23" • •

E.g. "contractIdentification": "1234-qeru-23" • •

•

5.15 SinglePayment

Field • **Description** • **Type** • **Man.** • **Format** • • **instructedAmount** • Information on the transfer carried out.

• Amount • MAN • E.g. "instructedAmount":
{...} • • **debtorAccount** • The debtor's account.

Description • **Type** • **Man.** • **Format** • • **instructedAmount** • Information on the transfer carried out.

• Amount • MAN • E.g. "instructedAmount":
{...} • • **debtorAccount** • The debtor's account.

Type • **Man.** • **Format** • • **instructedAmount** • Information on the transfer carried out. • Amount • MAN • E.g. "instructedAmount": {...} • • **debtorAccount** • The debtor's account.

Man. • **Format** • • **instructedAmount** • Information on the transfer carried out. • Amount • MAN • E.g. "instructedAmount": {...} • • **debtorAccount** • The debtor's account.

Format • • **instructedAmount** • Information on the transfer carried out. • Amount • MAN • E.g. "instructedAmount": {...} • • **debtorAccount** • The debtor's account.

• **instructedAmount** • Information on the transfer carried out. • Amount • MAN • E.g. "instructedAmount": {...} • • **debtorAccount** • The debtor's account.

instructedAmount • Information on the transfer carried out. • Amount • MAN • E.g. "instructedAmount": {...} • • **debtorAccount** • The debtor's account.

Information on the transfer carried out.

• Amount • MAN • E.g. "instructedAmount":

{...} • **debtorAccount** • The debtor's account.

Amount • MAN • E.g. "instructedAmount":

{...} • **debtorAccount** • The debtor's account.

MAN • E.g. "instructedAmount":

{...} • **debtorAccount** • The debtor's account.

E.g. "instructedAmount": {...} • **debtorAccount** • The debtor's account.

• **debtorAccount** • The debtor's account.

debtorAccount • The debtor's account.

The debtor's account.

Note: this field may be optional in some services such as bulk payments • AccountReference • MAN • E.g.

"debtorAccount":

{"iban":"ES111111111111111111111111"} • **creditorAccount** • Creditor

account • AccountReference • MAN • E.g.

"creditorAccount":

{"iban":"ES111111111111111111111111"} • **creditorName** • Creditor's name • String • MAN • ^.{1,70}\$

AccountReference • MAN • E.g. "debtorAccount":

{"iban":"ES111111111111111111111111"} • **creditorAccount** • Creditor

account • AccountReference • MAN • E.g.

"creditorAccount":

{"iban":"ES111111111111111111111111"} • **creditorName** • Creditor's name • String • MAN • ^.{1,70}\$

MAN • E.g. "debtorAccount":

{"iban":"ES111111111111111111111111"} • **creditorAccount** • Creditor

account • AccountReference • MAN • E.g.

"creditorAccount":

{"iban":"ES111111111111111111111111"} • **creditorName** • Creditor's name • String • MAN • ^.{1,70}\$

E.g. "debtorAccount":

{"iban":"ES111111111111111111111111"} • **creditorAccount** • Creditor

account • AccountReference • MAN • E.g.

"creditorAccount":

{"iban":"ES111111111111111111111111"} • **creditorName** • Creditor's name • String • MAN • ^.{1,70}\$

- **creditorAccount**• Creditor account• AccountReference• MAN• E.g. "creditorAccount": {"iban":"ES11111111111111111111"}• • **creditorName**• Creditor's name• String• MAN• ^.{1,70}\$

- **creditorAccount**• Creditor account• AccountReference• MAN• E.g. "creditorAccount": {"iban":"ES11111111111111111111"}• • **creditorName**• Creditor's name• String• MAN• ^.{1,70}\$

- Creditor account• AccountReference• MAN• E.g. "creditorAccount": {"iban":"ES11111111111111111111"}• • **creditorName**• Creditor's name• String• MAN• ^.{1,70}\$

- AccountReference• MAN• E.g. "creditorAccount": {"iban":"ES11111111111111111111"}• • **creditorName**• Creditor's name• String• MAN• ^.{1,70}\$

- MAN• E.g. "creditorAccount": {"iban":"ES11111111111111111111"}• • **creditorName**• Creditor's name• String• MAN• ^.{1,70}\$

- E.g. "creditorAccount": {"iban":"ES11111111111111111111"}• • **creditorName**• Creditor's name• String• MAN• ^.{1,70}\$

- **creditorName**• Creditor's name• String• MAN• ^.{1,70}\$

- **creditorName**• Creditor's name• String• MAN• ^.{1,70}\$

- Creditor's name• String• MAN• ^.{1,70}\$

- String• MAN• ^.{1,70}\$

- MAN• ^.{1,70}\$

- ^.{1,70}\$

- E.g. "creditorName":"Name"• • **creditorAgent**• BIC of the creditor account. • String• OPT• E.g.

- "creditorAgent":"XSXHXSMX"• • **creditorAddress**

- Creditor's address• Address• OPT• E.g.

- "creditorAddress":{"..."}• • **chargeBearer**• Only for payment-product:

- **creditorAgent**• BIC of the creditor account. • String• OPT• E.g.

"creditorAgent":"XSXHXSMXXX" • • **creditorAddress**

• Creditor's address • Address • OPT • E.g.

"creditorAddress":{...} • • **chargeBearer** • Only for payment-product:

creditorAgent • BIC of the creditor account. • String • OPT • E.g.

"creditorAgent":"XSXHXSMXXX" • • **creditorAddress**

• Creditor's address • Address • OPT • E.g.

"creditorAddress":{...} • • **chargeBearer** • Only for payment-product:

BIC of the creditor account. • String • OPT • E.g.

"creditorAgent":"XSXHXSMXXX" • • **creditorAddress**

• Creditor's address • Address • OPT • E.g.

"creditorAddress":{...} • • **chargeBearer** • Only for payment-product:

String • OPT • E.g.

"creditorAgent":"XSXHXSMXXX" • • **creditorAddress**

• Creditor's address • Address • OPT • E.g.

"creditorAddress":{...} • • **chargeBearer** • Only for payment-product:

OPT • E.g.

"creditorAgent":"XSXHXSMXXX" • • **creditorAddress**

• Creditor's address • Address • OPT • E.g.

"creditorAddress":{...} • • **chargeBearer** • Only for payment-product:

E.g.

"creditorAgent":"XSXHXSMXXX" • • **creditorAddress**

• Creditor's address • Address • OPT • E.g.

"creditorAddress":{...} • • **chargeBearer** • Only for payment-product:

• **creditorAddress** • Creditor's address • Address • OPT • E.g.

"creditorAddress":{...} • • **chargeBearer** • Only for payment-product:

creditorAddress • Creditor's address • Address • OPT • E.g.

"creditorAddress":{...} • • **chargeBearer** • Only for payment-product:

Creditor's address • Address • OPT • E.g.

"creditorAddress":{...} • • **chargeBearer** • Only for payment-product:

Address• OPT• E.g.

"creditorAddress":{...}• • **chargeBearer**• Only for payment-product:

OPT• E.g.

"creditorAddress":{...}• • **chargeBearer**• Only for payment-product:

E.g. "creditorAddress":{...}• • **chargeBearer**• Only for payment-product:

• **chargeBearer**• Only for payment-product:

chargeBearer• Only for payment-product:

Only for payment-product:

- target-2-payments
- cross-border-credit-transfers

Permitted values:

- DEBT
- CRED
- SHAR
- SLEV• String• OPT• **ChargeBearerType1Code of ISO 20022**

String• OPT• **ChargeBearerType1Code of ISO 20022**

OPT• **ChargeBearerType1Code of ISO 20022**

ChargeBearerType1Code of ISO 20022

E.g.

"chargeBearer": "SLEV"• • **remittanceInformationUnstructured**• Additional information.

• **remittanceInformationUnstructured**• Additional information.

remittanceInformationUnstructured• Additional information.

Additional information.

See annex 6.9 Good practice guide

Remittance Information Unstructured field for recommendations on use. • String• OPT• ^.{1,140}\$

String• OPT• ^.{1,140}\$

OPT• ^.{1,140}\$

^.{1,140}\$

E.g. "remittanceInformationUnstructured": "Additional information" • • **requestedExecutionDate** • Execution date requested for future payments.

• **requestedExecutionDate** • Execution date requested for future payments.

requestedExecutionDate • Execution date requested for future payments.

Execution date requested for future payments.

Note: only if supported by the ASPSP • String • COND • **ISODate** • • **requestedExecutionTime** • Requested time of execution.

String • COND • **ISODate** • • **requestedExecutionTime** • Requested time of execution.

COND • **ISODate** • • **requestedExecutionTime** • Requested time of execution.

ISODate • • **requestedExecutionTime** • Requested time of execution.

• **requestedExecutionTime** • Requested time of execution.

requestedExecutionTime • Requested time of execution.

Requested time of execution.

Note: only if supported by the ASPSP • String • COND • **ISODateTime** • • String • COND • **ISODateTime** • • COND • **ISODateTime** • • **ISODateTime** • •

5.16 TppMessage

Field • **Description** • **Type** • **Man.** • **Format** • • **category** • Category of type of message received. Possible values: ERROR or WARNING • String • MAN • E.g. "category": "ERROR" • • **code** • Response code.

Description • **Type** • **Man.** • **Format** • • **category** • Cat

egory of type of message received. Possible values:
ERROR or WARNING• String• MAN• E.g. "category":
"ERROR"• • **code**• Response code.

Type• **Man**• **Format**• • **category**• Category of type
of message received. Possible values: ERROR or
WARNING• String• MAN• E.g. "category":
"ERROR"• • **code**• Response code.

Man• **Format**• • **category**• Category of type of
message received. Possible values: ERROR or
WARNING• String• MAN• E.g. "category":
"ERROR"• • **code**• Response code.

Format• • **category**• Category of type of message
received. Possible values: ERROR or
WARNING• String• MAN• E.g. "category":
"ERROR"• • **code**• Response code.

• **category**• Category of type of message received.
Possible values: ERROR or
WARNING• String• MAN• E.g. "category":
"ERROR"• • **code**• Response code.

category• Category of type of message received.
Possible values: ERROR or
WARNING• String• MAN• E.g. "category":
"ERROR"• • **code**• Response code.

Category of type of message received. Possible values:
ERROR or WARNING• String• MAN• E.g. "category":
"ERROR"• • **code**• Response code.

String• MAN• E.g. "category":
"ERROR"• • **code**• Response code.

MAN• E.g. "category": "ERROR"• • **code**• Response
code.

E.g. "category": "ERROR"• • **code**• Response code.

• **code**• Response code.

code• Response code.

Response code.

All the return codes for the service are listed in annex
6.3 Return codes.• String• MAN• E.g.
"code": "CONSENT_INVALID"• • **path**• Path to the field
with a reference to the error.• String• COND• E.g.
"path": "... "• • **text**• Additional explanatory

text. • String • OPT • E.g. "text": "Example of text" • •
String • MAN • E.g.
"code": "CONSENT_INVALID" • • **path** • Path to the field
with a reference to the error. • String • COND • E.g.
"path": "... " • • **text** • Additional explanatory
text. • String • OPT • E.g. "text": "Example of text" • •
MAN • E.g. "code": "CONSENT_INVALID" • • **path** • Path
to the field with a reference to the
error. • String • COND • E.g.
"path": "... " • • **text** • Additional explanatory
text. • String • OPT • E.g. "text": "Example of text" • •
E.g. "code": "CONSENT_INVALID" • • **path** • Path to the
field with a reference to the error. • String • COND • E.g.
"path": "... " • • **text** • Additional explanatory
text. • String • OPT • E.g. "text": "Example of text" • •
• **path** • Path to the field with a reference to the
error. • String • COND • E.g.
"path": "... " • • **text** • Additional explanatory
text. • String • OPT • E.g. "text": "Example of text" • •
path • Path to the field with a reference to the
error. • String • COND • E.g.
"path": "... " • • **text** • Additional explanatory
text. • String • OPT • E.g. "text": "Example of text" • •
Path to the field with a reference to the
error. • String • COND • E.g.
"path": "... " • • **text** • Additional explanatory
text. • String • OPT • E.g. "text": "Example of text" • •
String • COND • E.g. "path": "... " • • **text** • Additional
explanatory text. • String • OPT • E.g. "text": "Example of
text" • •
COND • E.g. "path": "... " • • **text** • Additional explanatory
text. • String • OPT • E.g. "text": "Example of text" • •
E.g. "path": "... " • • **text** • Additional explanatory
text. • String • OPT • E.g. "text": "Example of text" • •
• **text** • Additional explanatory text. • String • OPT • E.g.
"text": "Example of text" • •
"text": "Example of text" • •
Additional explanatory text. • String • OPT • E.g.
"text": "Example of text" • •
String • OPT • E.g. "text": "Example of text" • •
OPT • E.g. "text": "Example of text" • •
E.g. "text": "Example of text" • •
•

5.17 Transactions

Field • **Description** • **Type** • **Man.** • **Format** • • **transactionId** • Can be used as access-ID in the API, where more details on an transaction is offered. • String • OPT • E.g.

Description • **Type** • **Man.** • **Format** • • **transactionId** • Can be used as access-ID in the API, where more details on an transaction is offered. • String • OPT • E.g.

Type • **Man.** • **Format** • • **transactionId** • Can be used as access-ID in the API, where more details on an transaction is offered. • String • OPT • E.g.

Man. • **Format** • • **transactionId** • Can be used as access-ID in the API, where more details on an transaction is offered. • String • OPT • E.g.

Format • • **transactionId** • Can be used as access-ID in the API, where more details on an transaction is offered. • String • OPT • E.g.

• **transactionId** • Can be used as access-ID in the API, where more details on an transaction is offered. • String • OPT • E.g.

transactionId • Can be used as access-ID in the API, where more details on an transaction is offered. • String • OPT • E.g.

Can be used as access-ID in the API, where more details on an transaction is offered. • String • OPT • E.g.

String • OPT • E.g.

OPT • E.g.

E.g.

"transactionId": "123-asdf-456" • • **entryReference** • Is the identification of the transaction as used e.g. for reference for deltafunction on application level. • String • OPT • ^.{1,35}\$

• **entryReference** • Is the identification of the transaction as used e.g. for reference for deltafunction on application

level. • String • OPT • ^.{1,35}\$

entryReference • Is the identification of the transaction as used e.g. for reference for deltafunction on application

level. • String • OPT • ^.{1,35}\$

Is the identification of the transaction as used e.g. for reference for deltafunction on application

level. • String • OPT • ^.{1,35}\$

String • OPT • ^.{1,35}\$

OPT • ^.{1,35}\$

^.{1,35}\$

E.g. "entryReference": "1234-asdf-

456" • • **endToEndId** • Unique end-to-end

identifier. • String • OPT • ^.{1,35}\$

• **endToEndId** • Unique end-to-end

identifier. • String • OPT • ^.{1,35}\$

endToEndId • Unique end-to-end

identifier. • String • OPT • ^.{1,35}\$

Unique end-to-end identifier. • String • OPT • ^.{1,35}\$

String • OPT • ^.{1,35}\$

OPT • ^.{1,35}\$

^.{1,35}\$

E.g. "endToEnd": "... " • • **mandateId** • Identification of Mandates, e.g. a SEPA Mandate ID

• String • OPT • ^.{1,35}\$

• **mandateId** • Identification of Mandates, e.g. a SEPA Mandate ID • String • OPT • ^.{1,35}\$

mandateId • Identification of Mandates, e.g. a SEPA

Mandate ID • String • OPT • ^.{1,35}\$

Identification of Mandates, e.g. a SEPA Mandate ID

• String • OPT • ^.{1,35}\$

String • OPT • ^.{1,35}\$

OPT • ^.{1,35}\$

^.{1,35}\$

E.g. "mandateId": "... " • • **checkId** • Cheque

identifier • String • OPT • ^.{1,35}\$

• **checkId**• Cheque identifier• String• OPT• ^.{1,35}\$

checkId• Cheque identifier• String• OPT• ^.{1,35}\$

Cheque identifier• String• OPT• ^.{1,35}\$

String• OPT• ^.{1,35}\$

OPT• ^.{1,35}\$

^{1,35}\$

E.g. "checkId":"..."• • **creditorId**• Identification of the beneficiary. For example, an ID of a SEPA beneficiary. • String• OPT• ^.{1,35}\$

• **creditorId**• Identification of the beneficiary. For example, an ID of a SEPA beneficiary. • String• OPT• ^.{1,35}\$

creditorId• Identification of the beneficiary. For example, an ID of a SEPA beneficiary. • String• OPT• ^.{1,35}\$

Identification of the beneficiary. For example, an ID of a SEPA beneficiary. • String• OPT• ^.{1,35}\$

String• OPT• ^.{1,35}\$

OPT• ^.{1,35}\$

^{1,35}\$

E.g. "creditorId":"..."• • **bookingDate**• The Date when an entry is posted to an account on the ASPSPs books.

• String• OPT• **ISODate**

• **bookingDate**• The Date when an entry is posted to an account on the ASPSPs books. • String• OPT• **ISODate**

bookingDate• The Date when an entry is posted to an account on the ASPSPs books. • String• OPT• **ISODate**

The Date when an entry is posted to an account on the ASPSPs books. • String• OPT• **ISODate**

String• OPT• **ISODate**

OPT• **ISODate**

ISODate

"bookingDate":"2017-10-23"• • **valueDate**• The Date at which assets become available to the account owner in case of a credit • String• OPT• **ISODate**

• **valueDate**• The Date at which assets become available to

the account owner in case of a credit

• String • OPT • **ISODate**

valueDate • The Date at which assets become available to the account owner in case of a credit

• String • OPT • **ISODate**

The Date at which assets become available to the account owner in case of a credit • String • OPT • **ISODate**

String • OPT • **ISODate**

OPT • **ISODate**

ISODate

E.g. "valueDate": "2017-10-

23" • • **transactionAmount** • The amount of the transaction as billed to the account. • Amount • MAN • E.g. "transactionAmount":

[{..}] • • **currencyExchange** • Exchange rate • List<ReportExchangeRate> • OPT • E.g.

"currencyExchange": [{...}] • • **creditorName** • Name of the creditor if a "Debited" transaction

• String • OPT • ^.{1,70}\$

• **transactionAmount** • The amount of the transaction as billed to the account. • Amount • MAN • E.g.

"transactionAmount":

[{..}] • • **currencyExchange** • Exchange rate • List<ReportExchangeRate> • OPT • E.g.

"currencyExchange": [{...}] • • **creditorName** • Name of the creditor if a "Debited" transaction

• String • OPT • ^.{1,70}\$

transactionAmount • The amount of the transaction as billed to the account. • Amount • MAN • E.g.

"transactionAmount":

[{..}] • • **currencyExchange** • Exchange rate • List<ReportExchangeRate> • OPT • E.g.

"currencyExchange": [{...}] • • **creditorName** • Name of the creditor if a "Debited" transaction

• String • OPT • ^.{1,70}\$

The amount of the transaction as billed to the account.

• Amount • MAN • E.g. "transactionAmount":

[{..}] • • **currencyExchange** • Exchange rate • List<ReportExchangeRate> • OPT • E.g.

"currencyExchange": [{...}] • • **creditorName** • Name of the creditor if a "Debited" transaction

• String• OPT• ^.{1,70}\$

Amount• MAN• E.g. "transactionAmount":

[{..}]• • **currencyExchange**• Exchange

rate• List<ReportExchangeRate>• OPT• E.g.

"currencyExchange": [{...}]• • **creditorName**• Name of the creditor if a "Debited" transaction

• String• OPT• ^.{1,70}\$

MAN• E.g. "transactionAmount":

[{..}]• • **currencyExchange**• Exchange

rate• List<ReportExchangeRate>• OPT• E.g.

"currencyExchange": [{...}]• • **creditorName**• Name of the creditor if a "Debited" transaction

• String• OPT• ^.{1,70}\$

E.g. "transactionAmount":

[{..}]• • **currencyExchange**• Exchange

rate• List<ReportExchangeRate>• OPT• E.g.

"currencyExchange": [{...}]• • **creditorName**• Name of the creditor if a "Debited" transaction

• String• OPT• ^.{1,70}\$

• **currencyExchange**• Exchange

rate• List<ReportExchangeRate>• OPT• E.g.

"currencyExchange": [{...}]• • **creditorName**• Name of the creditor if a "Debited" transaction

• String• OPT• ^.{1,70}\$

currencyExchange• Exchange

rate• List<ReportExchangeRate>• OPT• E.g.

"currencyExchange": [{...}]• • **creditorName**• Name of the creditor if a "Debited" transaction

• String• OPT• ^.{1,70}\$

Exchange rate• List<ReportExchangeRate>• OPT• E.g.

"currencyExchange": [{...}]• • **creditorName**• Name of the creditor if a "Debited" transaction

• String• OPT• ^.{1,70}\$

List<ReportExchangeRate>• OPT• E.g.

"currencyExchange": [{...}]• • **creditorName**• Name of the creditor if a "Debited" transaction

• String• OPT• ^.{1,70}\$

OPT• E.g. "currencyExchange":

[{...}]• • **creditorName**• Name of the creditor if a

"Debited" transaction • String• OPT• ^.{1,70}\$

E.g. "currencyExchange":

[{...}] • • **creditorName** • Name of the creditor if a "Debited" transaction • String • OPT • ^.{1,70}\$

• **creditorName** • Name of the creditor if a "Debited" transaction • String • OPT • ^.{1,70}\$

creditorName • Name of the creditor if a "Debited" transaction • String • OPT • ^.{1,70}\$

Name of the creditor if a "Debited" transaction • String • OPT • ^.{1,70}\$

String • OPT • ^.{1,70}\$

OPT • ^.{1,70}\$

^{1,70}\$

E.g. "creditor":

"Nombre" • • **creditorAccount** • Creditor's account • AccountReference • COND • E.g.

"creditorAccount": {...} • • **ultimateCreditor** • Ultimate creditor • String • OPT • ^.{1,70}\$

• **creditorAccount** • Creditor's account • AccountReference • COND • E.g.

"creditorAccount": {...} • • **ultimateCreditor** • Ultimate creditor • String • OPT • ^.{1,70}\$

creditorAccount • Creditor's account • AccountReference • COND • E.g. "creditorAccount": {...} • • **ultimateCreditor** • Ultimate creditor • String • OPT • ^.{1,70}\$

Creditor's account • AccountReference • COND • E.g.

"creditorAccount": {...} • • **ultimateCreditor** • Ultimate creditor • String • OPT • ^.{1,70}\$

AccountReference • COND • E.g. "creditorAccount":

{...} • • **ultimateCreditor** • Ultimate creditor • String • OPT • ^.{1,70}\$

COND • E.g. "creditorAccount":

{...} • • **ultimateCreditor** • Ultimate creditor • String • OPT • ^.{1,70}\$

E.g. "creditorAccount":

{...} • • **ultimateCreditor** • Ultimate creditor • String • OPT • ^.{1,70}\$

• **ultimateCreditor** • Ultimate creditor • String • OPT • ^.{1,70}\$

ultimateCreditor • Ultimate creditor. • String • OPT • ^.{1,70}\$
 Ultimate creditor. • String • OPT • ^.{1,70}\$
 String • OPT • ^.{1,70}\$
 OPT • ^.{1,70}\$
 ^.{1,70}\$
 E.g. "ultimateCreditor":
 "Nombre" • • **debtorName** • Name of the debtor if a "Credited" transaction • String • OPT • ^.{1,70}\$
 • **debtorName** • Name of the debtor if a "Credited" transaction • String • OPT • ^.{1,70}\$
debtorName • Name of the debtor if a "Credited" transaction • String • OPT • ^.{1,70}\$
 Name of the debtor if a "Credited" transaction • String • OPT • ^.{1,70}\$
 String • OPT • ^.{1,70}\$
 OPT • ^.{1,70}\$
 ^.{1,70}\$
 E.g. "debtor": "Nombre" • • **debtorAccount** • The debtor's account. • AccountReference • COND • E.g. "debtorAccount": {...} • • **ultimateDebtor** • Name of ultimate debtor. • String • OPT • ^.{1,70}\$
 • **debtorAccount** • The debtor's account. • AccountReference • COND • E.g. "debtorAccount": {...} • • **ultimateDebtor** • Name of ultimate debtor. • String • OPT • ^.{1,70}\$
debtorAccount • The debtor's account. • AccountReference • COND • E.g. "debtorAccount": {...} • • **ultimateDebtor** • Name of ultimate debtor. • String • OPT • ^.{1,70}\$
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{...} • • **ultimateDebtor** • Name of ultimate debtor. • String • OPT • ^.{1,70}\$

E.g. "debtorAccount": {...} • • **ultimateDebtor** • Name of ultimate debtor. • String • OPT • ^.{1,70}\$

• **ultimateDebtor** • Name of ultimate debtor. • String • OPT • ^.{1,70}\$

ultimateDebtor • Name of ultimate debtor. • String • OPT • ^.{1,70}\$

Name of ultimate debtor. • String • OPT • ^.{1,70}\$

String • OPT • ^.{1,70}\$

OPT • ^.{1,70}\$

^.{1,70}\$

E.g. "ultimateDebtor":

"Nombre" • • **remittanceInformationUnstructured** • Field to include additional information on the remittance. • String • OPT • ^.{1,140}\$

• **remittanceInformationUnstructured** • Field to include additional information on the remittance. • String • OPT • ^.{1,140}\$

remittanceInformationUnstructured • Field to include additional information on the remittance. • String • OPT • ^.{1,140}\$

Field to include additional information on the remittance. • String • OPT • ^.{1,140}\$

String • OPT • ^.{1,140}\$

OPT • ^.{1,140}\$

^.{1,140}\$

E.g. "remittanceInformationUnstructured": "Additional information" • • **remittanceInformationStructured** • R

eference as contained in the structured remittance reference structure • String • OPT • ^.{1,140}\$

• **remittanceInformationStructured** • Reference as contained in the structured remittance reference structure • String • OPT • ^.{1,140}\$

remittanceInformationStructured • Reference as contained in the structured remittance reference structure • String • OPT • ^.{1,140}\$

Reference as contained in the structured remittance reference structure • String• OPT• ^.{1,140}\$

String• OPT• ^.{1,140}\$

OPT• ^.{1,140}\$

^{1,140}\$

E.g. "remittanceInformationStructured": "Ref.

12344567" • • **purposeCode**• ExternalPurpose1Code

ISO 20022• String• OPT• **ExternalPurpose1Code ISO**

20022• • **bankTransactionCode**• Bank transaction

code as used by the ASPSP and using the sub elements of this structured code defined by ISO20022

• String• OPT• **ExternalBankTransactionDomain1Co**

de• • **proprietaryBankTransactionCode**• Proprietary

bank transaction code• String• OPT• ^.{1,35}\$

• **purposeCode**• ExternalPurpose1Code ISO

20022• String• OPT• **ExternalPurpose1Code ISO**

20022• • **bankTransactionCode**• Bank transaction

code as used by the ASPSP and using the sub elements of this structured code defined by ISO20022

• String• OPT• **ExternalBankTransactionDomain1Co**

de• • **proprietaryBankTransactionCode**• Proprietary

bank transaction code• String• OPT• ^.{1,35}\$

purposeCode• ExternalPurpose1Code ISO

20022• String• OPT• **ExternalPurpose1Code ISO**

20022• • **bankTransactionCode**• Bank transaction

code as used by the ASPSP and using the sub elements of this structured code defined by ISO20022

• String• OPT• **ExternalBankTransactionDomain1Co**

de• • **proprietaryBankTransactionCode**• Proprietary

bank transaction code• String• OPT• ^.{1,35}\$

ExternalPurpose1Code ISO

20022• String• OPT• **ExternalPurpose1Code ISO**

20022• • **bankTransactionCode**• Bank transaction

code as used by the ASPSP and using the sub elements of this structured code defined by ISO20022

• String• OPT• **ExternalBankTransactionDomain1Co**

de• • **proprietaryBankTransactionCode**• Proprietary

bank transaction code• String• OPT• ^.{1,35}\$

String• OPT• **ExternalPurpose1Code ISO**

20022• • **bankTransactionCode**• Bank transaction

code as used by the ASPSP and using the sub elements of this structured code defined by ISO20022

• String• OPT• **ExternalBankTransactionDomain1Code• • proprietaryBankTransactionCode•** Proprietary bank transaction code• String• OPT• $\wedge.\{1,35\}$ \$

OPT• **ExternalPurpose1Code ISO**

20022• • bankTransactionCode• Bank transaction code as used by the ASPSP and using the sub elements of this structured code defined by ISO20022

• String• OPT• **ExternalBankTransactionDomain1Code• • proprietaryBankTransactionCode•** Proprietary bank transaction code• String• OPT• $\wedge.\{1,35\}$ \$

ExternalPurpose1Code ISO

20022• • bankTransactionCode• Bank transaction code as used by the ASPSP and using the sub elements of this structured code defined by ISO20022

• String• OPT• **ExternalBankTransactionDomain1Code• • proprietaryBankTransactionCode•** Proprietary bank transaction code• String• OPT• $\wedge.\{1,35\}$ \$

• **bankTransactionCode•** Bank transaction code as used by the ASPSP and using the sub elements of this structured code defined by ISO20022

• String• OPT• **ExternalBankTransactionDomain1Code• • proprietaryBankTransactionCode•** Proprietary bank transaction code• String• OPT• $\wedge.\{1,35\}$ \$

bankTransactionCode• Bank transaction code as used by the ASPSP and using the sub elements of this structured code defined by ISO20022

• String• OPT• **ExternalBankTransactionDomain1Code• • proprietaryBankTransactionCode•** Proprietary bank transaction code• String• OPT• $\wedge.\{1,35\}$ \$

Bank transaction code as used by the ASPSP and using the sub elements of this structured code defined by ISO20022

• String• OPT• **ExternalBankTransactionDomain1Code• • proprietaryBankTransactionCode•** Proprietary bank transaction code• String• OPT• $\wedge.\{1,35\}$ \$

String• OPT• **ExternalBankTransactionDomain1Code• • proprietaryBankTransactionCode•** Proprietary bank transaction code• String• OPT• $\wedge.\{1,35\}$ \$

OPT• **ExternalBankTransactionDomain1Code• • proprietaryBankTransactionCode•** Proprietary bank transaction code• String• OPT• $\wedge.\{1,35\}$ \$

ExternalBankTransactionDomain1Code• • proprietaryBankTransactionCode• Proprietary bank

transaction code• String• OPT• ^.{1,35}\$

• **proprietaryBankTransactionCode**• Proprietary bank transaction code• String• OPT• ^.{1,35}\$

proprietaryBankTransactionCode• Proprietary bank transaction code• String• OPT• ^.{1,35}\$

Proprietary bank transaction code• String• OPT• ^.{1,35}\$

String• OPT• ^.{1,35}\$

OPT• ^.{1,35}\$

^{1,35}\$

• • **_links**• Possible values:

• **_links**• Possible values:

_links• Possible values:

Possible values:

• transactionDetails• Links• OPT• E.g. "_links":

{...}• •

Links• OPT• E.g. "_links": {...}• •

OPT• E.g. "_links": {...}• •

E.g. "_links": {...}• •

•

6. ANNEXES

6.1 Signature

6.1.1 Signature requirements

The structure of the "Signature" field of the request header must be presented with the following structure.

Element• Type• Man. Requirements• Additional requirements•
keyId• String• MAN• It is a chain that can be used by the HUB to find a component needed to validate the signature.
 • Serial number of the TPP certificate included in "TPP-Signature-Certificate".

Type • Man. • Requirements • Additional

requirements • • keyId • String • MAN • It is a chain that can be used by the HUB to find a component needed to validate the signature. • Serial number of the TPP certificate included in "TPP-Signature-Certificate".

Man. • Requirements • Additional

requirements • • keyId • String • MAN • It is a chain that can be used by the HUB to find a component needed to validate the signature. • Serial number of the TPP certificate included in "TPP-Signature-Certificate".

Requirements • Additional

requirements • • keyId • String • MAN • It is a chain that can be used by the HUB to find a component needed to validate the signature. • Serial number of the TPP certificate included in "TPP-Signature-Certificate".

Additional requirements • • keyId • String • MAN • It is a chain that can be used by the HUB to find a component needed to validate the signature. • Serial number of the TPP certificate included in "TPP-Signature-Certificate".

• **keyId • String • MAN •** It is a chain that can be used by the HUB to find a component needed to validate the signature. • Serial number of the TPP certificate included in "TPP-Signature-Certificate".

keyId • String • MAN • It is a chain that can be used by the HUB to find a component needed to validate the signature. • Serial number of the TPP certificate included in "TPP-Signature-Certificate".

String • MAN • It is a chain that can be used by the HUB to find a component needed to validate the signature. • Serial number of the TPP certificate included in "TPP-Signature-Certificate".

MAN • It is a chain that can be used by the HUB to find a component needed to validate the signature. • Serial number of the TPP certificate included in "TPP-Signature-Certificate".

It is a chain that can be used by the HUB to find a component needed to validate the signature. • Serial number of the TPP certificate included in "TPP-Signature-Certificate".

Serial number of the TPP certificate included in "TPP-Signature-Certificate".

Must be formatted as follows:

KeyId="SN=XXX,CA= YYYYYYYYYYYYYYYY"

Where "XXX" is the serial number of the certificate in hexadecimal code and "YYYYYYYYYYYYYYY" is the full "Distinguished Name" of the certification authority.

• **Algorithm-ID • String • MAN •** It is used to

specify the algorithm used to generate the signature. • The algorithm must identify the same algorithm for the signature as that presented in the request certificate.

• **Algorithm-ID** String • MAN • It is used to specify the algorithm used to generate the signature. • The algorithm must identify the same algorithm for the signature as that presented in the request certificate.

Algorithm-ID String • MAN • It is used to specify the algorithm used to generate the signature. • The algorithm must identify the same algorithm for the signature as that presented in the request certificate.

String • MAN • It is used to specify the algorithm used to generate the signature. • The algorithm must identify the same algorithm for the signature as that presented in the request certificate.

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It is used to specify the algorithm used to generate the signature. • The algorithm must identify the same algorithm for the signature as that presented in the request certificate.

The algorithm must identify the same algorithm for the signature as that presented in the request certificate.

Must identify SHA-256 or SHA-

512. • • **Headers** String • OPT • Is used to specify the list of HTTP headers included when the signature is generated for the message.

• **Headers** String • OPT • Is used to specify the list of HTTP headers included when the signature is generated for the message.

Headers String • OPT • Is used to specify the list of HTTP headers included when the signature is generated for the message.

String • OPT • Is used to specify the list of HTTP headers included when the signature is generated for the message.

OPT • Is used to specify the list of HTTP headers included when the signature is generated for the message.

Is used to specify the list of HTTP headers included when the signature is generated for the message.

If specified, it must be a list between inverted commas and in lower case, separated by a blank space. If not specified, it must be understood that only one value has been specified. This specified value is the "Date" attribute of the request header.

The order of the attributes is important and must be the same

as the order specified on the list of HTTP headers specified in this field. • The required fields to be signed are:

The required fields to be signed are:

- digest
- x-request-id

Conditionally, if they travel and are supported, they must include:

- psu-id
- psu-corporate-id
- tpp-redirect-uri
- **Signature** • String • MAN • The "signature" parameter must be in Base64 according to RFC 4648.
- **Signature** • String • MAN • The "signature" parameter must be in Base64 according to RFC 4648.

Signature • String • MAN • The "signature" parameter must be in Base64 according to RFC 4648.

String • MAN • The "signature" parameter must be in Base64 according to RFC 4648.

MAN • The "signature" parameter must be in Base64 according to RFC 4648.

The "signature" parameter must be in Base64 according to RFC 4648.

The TPP uses the algorithm and the parameters of the header to form the chain to be signed. The chain to sign is signed with the keyId and the corresponding algorithm. The content must be in Base64. • There are no additional requirements. • •

There are no additional requirements. • •

•

6.1.2 Example

You want to make a host-to-host request with the following text:

```
{
  "instructedAmount" : {
    "currency" : "EUR",
    "amount" : "16.00"
  },
  "debtorAccount" : {
```



```

    "iban" : "ES5140000001050000000001",
    "currency" : "EUR"
  },
  "creditorName" : "Cred. Name",
  "creditorAccount" : {
    "iban" : "ES6621000418401234567891",
    "currency" : "EUR"
  },
  "creditorAddress" : {
    "street" : "Example of street",
    "buildingNumber" : "15",
    "city" : "Cordoba",
    "postalCode" : "14100",
    "country" : "ES"
  },
  "remittanceInformationUnstructured" : "Payment",
  "chargeBearer" : "CRED"
}

```

And you must also add the following headers

- X-Request-ID=a13cbf11-b053-4908-bd06-517dfa3a1861

You must make the following transactions.

6.2 HTTP response codes

The HTTP codes followed by this specification and their uses are the following:

HTTP code • Description • 200 OK • PUT, GET Response Codes

Description • 200 OK • PUT, GET Response Codes

- **200 OK • PUT, GET Response Codes**

200 OK• PUT, GET Response Codes

PUT, GET Response Codes

This return code is permitted if a request was repeated due to a time-out. The response in that might be either a 200 or 201 code depending on the ASPSP implementation.

The POST for a Funds request will also return 200 since it does not create a new resource.

DELETE Response Code where a payment resource has been cancelled successfully and no further cancellation authorisation is required.

- • **201 Created**• POST response code where Payment Initiation or Consent Request was correctly performed.

- • **201 Created**• POST response code where Payment Initiation or Consent Request was correctly performed.

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POST response code where Payment Initiation or Consent Request was correctly performed.

- • **202 Accepted**• DELETE response code, where a payment resource can be cancelled in general, but where a cancellation authorisation is needed in addition.

- • **202 Accepted**• DELETE response code, where a payment resource can be cancelled in general, but where a cancellation authorisation is needed in addition.

- • **202 Accepted**• DELETE response code, where a payment resource can be cancelled in general, but where a cancellation authorisation is needed in addition.

DELETE response code, where a payment resource can be cancelled in general, but where a cancellation authorisation is needed in addition.

Response code for DELETE requests when a payment resource may be cancelled but that requires authorisation for cancellation by PSU. • • **204 No Content**• DELETE response code where a consent resource was successfully deleted. The code indicates that the request was performed, but no content was returned.

- • **204 No Content**• DELETE response code where a

consent resource was successfully deleted. The code indicates that the request was performed, but no content was returned.

204 No Content• DELETE response code where a consent resource was successfully deleted. The code indicates that the request was performed, but no content was returned.

DELETE response code where a consent resource was successfully deleted. The code indicates that the request was performed, but no content was returned.

Also used in DELETE requests of a payment initiation where authentication is not needed. • • **400 Bad Request**• Validation error occurred. This code will cover malformed syntax in request or incorrect data in payload.

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400 Bad Request• Validation error occurred. This code will cover malformed syntax in request or incorrect data in payload.

Validation error occurred. This code will cover malformed syntax in request or incorrect data in payload.

• • **401 Unauthorised**• The TPP or the PSU is not correctly authorized to perform the request. Retry the request with correct authentication information.

• **401 Unauthorised**• The TPP or the PSU is not correctly authorized to perform the request. Retry the request with correct authentication information.

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The TPP or the PSU is not correctly authorized to perform the request. Retry the request with correct authentication information.

• • **403 Forbidden**• Returned if the resource that was referenced in the path exists but cannot be accessed by the TPP or the PSU. This code should only be used for non-sensitive id references as it will reveal that the

resource exists even though it cannot be accessed.

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Returned if the resource that was referenced in the path exists but cannot be accessed by the TPP or the PSU. This code should only be used for non-sensitive id references as it will reveal that the resource exists even though it cannot be accessed.

- • **404 Not found**• Returned if the resource or endpoint that was referenced in the path does not exist or cannot be referenced by the TPP or the PSU.

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When in doubt if a specific id in the path is sensitive or not, use the HTTP response code 404 instead of the HTTP response code 403.

- • **405 Method Not Allowed**• This code is only sent when the HTTP method (PUT, POST, DELETE, GET etc.) is not supported on a specific endpoint. It has nothing to do with the consent, payment or account information data model.

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This code is only sent when the HTTP method (PUT, POST, DELETE, GET etc.) is not supported on a specific endpoint. It has nothing to do with the consent, payment or account information data model.

DELETE Response code in case of cancellation of a payment initiation, where the payment initiation cannot be cancelled due to legal or other operational reasons.

• • **406 Not Acceptable**• The ASPSP cannot generate the content that the TPP specified in the Accept header.
 • • **408 Request Timeout**• The server is still working correctly, but an individual request has timed out.
 • • **409 Conflict**• The request could not be completed due to a conflict with the current state of the target resource.
 • • **415 Unsupported Media Type**• The TPP has supplied a media type which the ASPSP does not support.
 • • **429 Too Many Requests**• The TPP has exceeded the number of requests allowed by the consent or by the RTS.
 • • **500 Internal Server Error**• Internal server error occurred.
 • • **503 Service Unavailable**• The ASPSP server is currently unavailable. Generally, this is a temporary state. • •

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•

6.3 Return codes

Permitted return codes and associated HTTP response codes.

• **HTTP code**• **Code**• **Description**• • **SIGNATURE CERTIFICATE**• 401• CERTIFICATE_INVALID• The contents of the signature/corporate seal certificate are not matching PSD2 general PSD2 or attribute requirements.
• • • 401• CERTIFICATE_EXPIRED• Signature/corporate seal certificate is expired.
• • • 401• CERTIFICATE_BLOCKED• Signature/corporate seal certificate has been blocked by the ASPSP or the related

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HTTP code• Code• Description• • SIGNATURE

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This applies to headers and body entries. It also applies

in cases where these entries are referring to erroneous or not existing data instances, e.g. a malformed IBAN.

• • • 400• PARAMETER_NOT_CONSISTENT• Parameters submitted by TPP are not consistent. This applies only for query parameters.

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• • • 400• PARAMETER_NOT_SUPPORTED• The parameter is not supported by the API provider. This code should only be used for parameters that are described as "optional if supported by API provider."

• • • 401• PSU_CREDENTIALS_INVALID• The PSU-ID cannot be matched by the addressed ASPSP or is blocked, or a password resp. OTP was not correct. Additional information might be added. • • • 400 (payload)

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The parameter is not supported by the API provider. This code should only be used for parameters that are described as "optional if supported by API provider."

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• • 401• PSU_CREDENTIALS_INVALID• The PSU-ID cannot be matched by the addressed ASPSP or is blocked, or a password resp. OTP was not correct. Additional information might be added. • • • 400 (payload)

• 401• PSU_CREDENTIALS_INVALID• The PSU-ID cannot be matched by the addressed ASPSP or is blocked, or a password resp. OTP was not correct. Additional information might be added. • • • 400 (payload)

401• PSU_CREDENTIALS_INVALID• The PSU-ID cannot

be matched by the addressed ASPSP or is blocked, or a password resp. OTP was not correct. Additional information might be added. • • • 400 (payload)

PSU_CREDENTIALS_INVALID• The PSU-ID cannot be matched by the addressed ASPSP or is blocked, or a password resp. OTP was not correct. Additional information might be added. • • • 400 (payload)

The PSU-ID cannot be matched by the addressed ASPSP or is blocked, or a password resp. OTP was not correct. Additional information might be added. • • • 400 (payload)

• • • 400 (payload)

• 400 (payload)

400 (payload)

405 (HTTP method)• SERVICE_INVALID• The addressed service is not valid for the addressed resources or the submitted data. • • • 403• SERVICE_BLOCKED• 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.

• • • 401• CORPORATE_ID_INVALID• The PSU-Corporate-ID cannot be matched by the addressed ASPSP.

SERVICE_INVALID• The addressed service is not valid for the addressed resources or the submitted data.

• • • 403• SERVICE_BLOCKED• 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.

• • • 401• CORPORATE_ID_INVALID• The PSU-Corporate-ID cannot be matched by the addressed ASPSP.

The addressed service is not valid for the addressed resources or the submitted data.

• • • 403• SERVICE_BLOCKED• 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.

• • • 401• CORPORATE_ID_INVALID• The PSU-Corporate-ID cannot be matched by the addressed ASPSP.

• • • 403• SERVICE_BLOCKED• 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.

• • • 401• CORPORATE_ID_INVALID• The PSU-Corporate-ID cannot be matched by the addressed ASPSP.

• 403• SERVICE_BLOCKED• 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.

• • • 401• CORPORATE_ID_INVALID• The PSU-Corporate-ID cannot be matched by the addressed ASPSP.

403• SERVICE_BLOCKED• 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.

• • • 401• CORPORATE_ID_INVALID• The PSU-Corporate-ID cannot be matched by the addressed ASPSP.

SERVICE_BLOCKED• 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.

• • • 401• CORPORATE_ID_INVALID• The PSU-Corporate-ID cannot be matched by the addressed ASPSP.

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.

• • • 401• CORPORATE_ID_INVALID• The PSU-Corporate-ID cannot be matched by the addressed ASPSP.

• • 401• CORPORATE_ID_INVALID• The PSU-Corporate-ID cannot be matched by the addressed ASPSP.

• 401• CORPORATE_ID_INVALID• The PSU-Corporate-ID cannot be matched by the addressed ASPSP.

401• CORPORATE_ID_INVALID• The PSU-Corporate-ID cannot be matched by the addressed ASPSP.

CORPORATE_ID_INVALID• The PSU-Corporate-ID cannot be matched by the addressed ASPSP.

The PSU-Corporate-ID cannot be matched by the addressed ASPSP.

- • • 403 (if resource on path)

- • 403 (if resource on path)

- 403 (if resource on path)

403 (if resource on path)

400 (if resource in

payload)• CONSENT_UNKNOWN• The Consent-ID cannot be matched by the ASPSP relative to the TPP.

The • • • 401• CONSENT_INVALID• The consent was created by this TPP but is not valid for the addressed service/resource.

CONSENT_UNKNOWN• The Consent-ID cannot be matched by the ASPSP relative to the TPP. The

• • • 401• CONSENT_INVALID• The consent was created by this TPP but is not valid for the addressed service/resource.

The Consent-ID cannot be matched by the ASPSP relative to the TPP. The

• • • 401• CONSENT_INVALID• The consent was created by this TPP but is not valid for the addressed service/resource.

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401• CONSENT_INVALID• The consent was created by this TPP but is not valid for the addressed service/resource.

CONSENT_INVALID• The consent was created by this TPP but is not valid for the addressed service/resource.

The consent was created by this TPP but is not valid for the addressed service/resource.

Or, the definition of the consent is not complete, or is invalid. • • • 401• CONSENT_EXPIRED• The consent

was created by this TPP but has expired and needs to be renewed. • • • 401• TOKEN_UNKNOWN• The OAuth2 token cannot be matched by the ASPSP relative to the TPP. • • • 401• TOKEN_INVALID• The OAuth2 token is associated to the TPP but is not valid for the addressed service/resource. • • • 401• TOKEN_EXPIRED• The OAuth2 token is associated to the TPP but has expired and needs to be renewed. • • • 404 (if account-id in path)

• • • 401• CONSENT_EXPIRED• The consent was created by this TPP but has expired and needs to be renewed.

• • • 401• TOKEN_UNKNOWN• The OAuth2 token cannot be matched by the ASPSP relative to the TPP.

• • • 401• TOKEN_INVALID• The OAuth2 token is associated to the TPP but is not valid for the addressed service/resource. • • • 401• TOKEN_EXPIRED• The OAuth2 token is associated to the TPP but has expired and needs to be renewed. • • • 404 (if account-id in path)

• 401• CONSENT_EXPIRED• The consent was created by this TPP but has expired and needs to be renewed.

• • • 401• TOKEN_UNKNOWN• The OAuth2 token cannot be matched by the ASPSP relative to the TPP.

• • • 401• TOKEN_INVALID• The OAuth2 token is associated to the TPP but is not valid for the addressed service/resource. • • • 401• TOKEN_EXPIRED• The OAuth2 token is associated to the TPP but has expired and needs to be renewed. • • • 404 (if account-id in path)

401• CONSENT_EXPIRED• The consent was created by this TPP but has expired and needs to be renewed.

• • • 401• TOKEN_UNKNOWN• The OAuth2 token cannot be matched by the ASPSP relative to the TPP.

• • • 401• TOKEN_INVALID• The OAuth2 token is associated to the TPP but is not valid for the addressed service/resource. • • • 401• TOKEN_EXPIRED• The OAuth2 token is associated to the TPP but has expired and needs to be renewed. • • • 404 (if account-id in path)

CONSENT_EXPIRED• The consent was created by this TPP but has expired and needs to be renewed.

• • • 401• TOKEN_UNKNOWN• The OAuth2 token cannot be matched by the ASPSP relative to the TPP.

- • • 401• TOKEN_INVALID• The OAuth2 token is associated to the TPP but is not valid for the addressed service/resource. • • • 401• TOKEN_EXPIRED• The OAuth2 token is associated to the TPP but has expired and needs to be renewed. • • • 404 (if account-id in path)

The consent was created by this TPP but has expired and needs to be renewed.

- • • 401• TOKEN_UNKNOWN• The OAuth2 token cannot be matched by the ASPSP relative to the TPP.
- • • 401• TOKEN_INVALID• The OAuth2 token is associated to the TPP but is not valid for the addressed service/resource. • • • 401• TOKEN_EXPIRED• The OAuth2 token is associated to the TPP but has expired and needs to be renewed. • • • 404 (if account-id in path)

- • 401• TOKEN_UNKNOWN• The OAuth2 token cannot be matched by the ASPSP relative to the TPP.

- • • 401• TOKEN_INVALID• The OAuth2 token is associated to the TPP but is not valid for the addressed service/resource. • • • 401• TOKEN_EXPIRED• The OAuth2 token is associated to the TPP but has expired and needs to be renewed. • • • 404 (if account-id in path)

- 401• TOKEN_UNKNOWN• The OAuth2 token cannot be matched by the ASPSP relative to the TPP.

- • • 401• TOKEN_INVALID• The OAuth2 token is associated to the TPP but is not valid for the addressed service/resource. • • • 401• TOKEN_EXPIRED• The OAuth2 token is associated to the TPP but has expired and needs to be renewed. • • • 404 (if account-id in path)

- 401• TOKEN_UNKNOWN• The OAuth2 token cannot be matched by the ASPSP relative to the TPP.

- • • 401• TOKEN_INVALID• The OAuth2 token is associated to the TPP but is not valid for the addressed service/resource. • • • 401• TOKEN_EXPIRED• The OAuth2 token is associated to the TPP but has expired and needs to be renewed. • • • 404 (if account-id in path)

TOKEN_UNKNOWN• The OAuth2 token cannot be matched by the ASPSP relative to the TPP.

- • • 401• TOKEN_INVALID• The OAuth2 token is

associated to the TPP but is not valid for the addressed service/resource. • • • 401• TOKEN_EXPIRED• The OAuth2 token is associated to the TPP but has expired and needs to be renewed. • • • 404 (if account-id in path)

The OAuth2 token cannot be matched by the ASPSP relative to the TPP. • • • 401• TOKEN_INVALID• The OAuth2 token is associated to the TPP but is not valid for the addressed service/resource.

• • • 401• TOKEN_EXPIRED• The OAuth2 token is associated to the TPP but has expired and needs to be renewed. • • • 404 (if account-id in path)

• • • 401• TOKEN_INVALID• The OAuth2 token is associated to the TPP but is not valid for the addressed service/resource. • • • 401• TOKEN_EXPIRED• The OAuth2 token is associated to the TPP but has expired and needs to be renewed. • • • 404 (if account-id in path)

• 401• TOKEN_INVALID• The OAuth2 token is associated to the TPP but is not valid for the addressed service/resource. • • • 401• TOKEN_EXPIRED• The OAuth2 token is associated to the TPP but has expired and needs to be renewed. • • • 404 (if account-id in path)

401• TOKEN_INVALID• The OAuth2 token is associated to the TPP but is not valid for the addressed service/resource. • • • 401• TOKEN_EXPIRED• The OAuth2 token is associated to the TPP but has expired and needs to be renewed. • • • 404 (if account-id in path)

TOKEN_INVALID• The OAuth2 token is associated to the TPP but is not valid for the addressed service/resource.

• • • 401• TOKEN_EXPIRED• The OAuth2 token is associated to the TPP but has expired and needs to be renewed. • • • 404 (if account-id in path)

The OAuth2 token is associated to the TPP but is not valid for the addressed service/resource.

• • • 401• TOKEN_EXPIRED• The OAuth2 token is associated to the TPP but has expired and needs to be renewed. • • • 404 (if account-id in path)

• • • 401• TOKEN_EXPIRED• The OAuth2 token is associated to the TPP but has expired and needs to be

renewed. • • • 404 (if account-id in path)

• 401• TOKEN_EXPIRED• The OAuth2 token is associated to the TPP but has expired and needs to be renewed. • • • 404 (if account-id in path)

401• TOKEN_EXPIRED• The OAuth2 token is associated to the TPP but has expired and needs to be renewed. • • • 404 (if account-id in path)

TOKEN_EXPIRED• The OAuth2 token is associated to the TPP but has expired and needs to be renewed. • • • 404 (if account-id in path)

The OAuth2 token is associated to the TPP but has expired and needs to be renewed. • • • 404 (if account-id in path)

• • • 404 (if account-id in path)

• 404 (if account-id in path)

404 (if account-id in path)

403 (if other resource in path)

400 (if goes in payload)• RESOURCE_UNKNOWN• The addressed resource is unknown relative to the TPP.

• • • 403 (if resource on path)

RESOURCE_UNKNOWN• The addressed resource is unknown relative to the TPP. • • • 403 (if resource on path)

The addressed resource is unknown relative to the TPP.

• • • 403 (if resource on path)

• • • 403 (if resource on path)

• 403 (if resource on path)

403 (if resource on path)

400 (if resource in payload)• RESOURCE_EXPIRED• The addressed resource is associated with the TPP but has expired, not addressable anymore.

• • • 400• RESOURCE_BLOCKED• The addressed resource is not addressable by this request, since it is blocked e.g. by a grouping in a signing basket.

• • • 400• TIMESTAMP_INVALID• Timestamp not in accepted time period. Timestamp not in period of accepted time.

• • • 400• PERIOD_INVALID• Requested time period out of

bound. • • • 400 • SCA_METHOD_UNKNOWN • Addressed SCA method in the Authentication Method Select Request is unknown or cannot be matched by the ASPSP with the PSU. • • • 409 • STATUS_INVALID • The addressed resource does not allow additional authorisation. • • **OAuth2** • 302 • invalid_request • The request is not well formed because there are parameters missing, value not supported, or parameters repeated. • • • 302 • unauthorized_client • The authenticated client is not authorised to use this type of authorisation. • • • 302 • access_denied • The owner of the resources or the authorised server rejects the request. • • • 302 • unsupported_response_type • The authorisation server does not support the method used to obtain the authorisation code. • • • 302 • invalid_scope • The scope requested is invalid, unknown or badly formed. • • • 302 • server_error • Error 500 that may not be returned in a redirect. It is returned with this code. • • • 302 • temporarily_unavailable • The authorisation server is temporarily unable to process the request, due to a temporary overload or due to maintenance. • • • 400 • invalid_request • The request is not well formed because parameters are missing, the value is not supported, parameters are repeated, it includes multiple credentials or uses more than one of the client's authentication mechanisms. • • • 401 • invalid_client • Client authentication failure. • • • 400 • invalid_grant • The authorisation provided or the refresh token is invalid, expired, revoked, does not coincide with the redirect URL, or was issued by another client. • • • 400 • unauthorized_client • The authenticated client is not authorised to use this type of authorisation. • • • 400 • unsupported_grant_type • The type of authorisation requested is not supported by the authorisation server. • • • 400 • invalid_scope • The scope requested is invalid, unknown, badly formed or exceeds what is permitted. • • **PIS** • 403 • PRODUCT_INVALID • The payment product requested is not available for the PSU. • • • 404 • PRODUCT_UNKNOWN • The payment product requested is not supported by the ASPSP. • • • 400

RESOURCE_EXPIRED• The addressed resource is associated with the TPP but has expired, not addressable anymore.

- • • 400• RESOURCE_BLOCKED• The addressed resource is not addressable by this request, since it is blocked e.g. by a grouping in a signing basket.
- • • 400• TIMESTAMP_INVALID• Timestamp not in accepted time period. Timestamp not in period of accepted time.
- • • 400• PERIOD_INVALID• Requested time period out of bound.
- • • 400• SCA_METHOD_UNKNOWN• Addressed SCA method in the Authentication Method Select Request is unknown or cannot be matched by the ASPSP with the PSU.
- • • 409• STATUS_INVALID• The addressed resource does not allow additional authorisation.
- • **OAuth2**• 302• invalid_request• The request is not well formed because there are parameters missing, value not supported, or parameters repeated.
- • • 302• unauthorized_client• The authenticated client is not authorised to use this type of authorisation.
- • • 302• access_denied• The owner of the resources or the authorised server rejects the request.
- • • 302• unsupported_response_type• The authorisation server does not support the method used to obtain the authorisation code.
- • • 302• invalid_scope• The scope requested is invalid, unknown or badly formed.
- • • 302• server_error• Error 500 that may not be returned in a redirect. It is returned with this code.
- • • 302• temporarily_unavailable• The authorisation server is temporarily unable to process the request, due to a temporary overload or due to maintenance.
- • • 400• invalid_request• The request is not well formed because parameters are missing, the value is not supported, parameters are repeated, it includes multiple credentials or uses more than one of the client's authentication mechanisms.
- • • 401• invalid_client• Client authentication failure.
- • • 400• invalid_grant• The authorisation provided or the refresh token is invalid, expired, revoked, does not coincide with the redirect URL, or was issued by another client.
- • • 400• unauthorized_client• The authenticated client is not authorised to use this type of authorisation.
- • • 400• unsupported_grant_type• The

type of authorisation requested is not supported by the authorisation server. • • • 400• invalid_scope• The scope requested is invalid, unknown, badly formed or exceeds what is permitted. • • **PIS**• 403• PRODUCT_INVALID• The payment product requested is not available for the PSU. • • • 404• PRODUCT_UNKNOWN• The payment product requested is not supported by the ASPSP. • • • 400

The addressed resource is associated with the TPP but has expired, not addressable anymore.

• • • 400• RESOURCE_BLOCKED• The addressed resource is not addressable by this request, since it is blocked e.g. by a grouping in a signing basket.
• • • 400• TIMESTAMP_INVALID• Timestamp not in accepted time period. Timestamp not in period of accepted time. • • • 400• PERIOD_INVALID• Requested time period out of bound. • • • 400• SCA_METHOD_UNKNOWN• Addressed SCA method in the Authentication Method Select Request is unknown or cannot be matched by the ASPSP with the PSU. • • • 409• STATUS_INVALID• The addressed resource does not allow additional authorisation. • • **OAuth2**• 302• invalid_request• The request is not well formed because there are parameters missing, value not supported, or parameters repeated. • • • 302• unauthorized_client• The authenticated client is not authorised to use this type of authorisation. • • • 302• access_denied• The owner of the resources or the authorised server rejects the request. • • • 302• unsupported_response_type• The authorisation server does not support the method used to obtain the authorisation code. • • • 302• invalid_scope• The scope requested is invalid, unknown or badly formed. • • • 302• server_error• Error 500 that may not be returned in a redirect. It is returned with this code. • • • 302• temporarily_unavailable• The authorisation server is temporarily unable to process the request, due to a temporary overload or due to maintenance. • • • 400• invalid_request• The request is not well formed because parameters are missing, the value is not supported, parameters are repeated, it includes multiple credentials or uses more than one of

the client's authentication

mechanisms. • • • 401• invalid_client• Client authentication failure. • • • 400• invalid_grant• The authorisation provided or the refresh token is invalid, expired, revoked, does not coincide with the redirect URL, or was issued by another client. • • • 400• unauthorized_client• The authenticated client is not authorised to use this type of authorisation. • • • 400• unsupported_grant_type• The type of authorisation requested is not supported by the authorisation server. • • • 400• invalid_scope• The scope requested is invalid, unknown, badly formed or exceeds what is permitted. • • **PIS**• 403• PRODUCT_INVALID• The payment product requested is not available for the PSU. • • • 404• PRODUCT_UNKNOWN• The payment product requested is not supported by the ASPSP. • • • 400

• • • 400• RESOURCE_BLOCKED• The addressed resource is not addressable by this request, since it is blocked e.g. by a grouping in a signing basket. • • • 400• TIMESTAMP_INVALID• Timestamp not in accepted time period. Timestamp not in period of accepted time. • • • 400• PERIOD_INVALID• Requested time period out of bound. • • • 400• SCA_METHOD_UNKNOWN• Addressed SCA method in the Authentication Method Select Request is unknown or cannot be matched by the ASPSP with the PSU. • • • 409• STATUS_INVALID• The addressed resource does not allow additional authorisation. • • **OAuth2**• 302• invalid_request• The request is not well formed because there are parameters missing, value not supported, or parameters repeated. • • • 302• unauthorized_client• The authenticated client is not authorised to use this type of authorisation. • • • 302• access_denied• The owner of the resources or the authorised server rejects the request. • • • 302• unsupported_response_type• The authorisation server does not support the method used to obtain the authorisation code. • • • 302• invalid_scope• The scope requested is invalid, unknown or badly formed. • • • 302• server_error• Error 500 that may not be returned in a redirect. It is returned with this

code. • • • 302 • temporarily_unavailable • The authorisation server is temporarily unable to process the request, due to a temporary overload or due to maintenance. • • • 400 • invalid_request • The request is not well formed because parameters are missing, the value is not supported, parameters are repeated, it includes multiple credentials or uses more than one of the client's authentication mechanisms. • • • 401 • invalid_client • Client authentication failure. • • • 400 • invalid_grant • The authorisation provided or the refresh token is invalid, expired, revoked, does not coincide with the redirect URL, or was issued by another client. • • • 400 • unauthorized_client • The authenticated client is not authorised to use this type of authorisation. • • • 400 • unsupported_grant_type • The type of authorisation requested is not supported by the authorisation server. • • • 400 • invalid_scope • The scope requested is invalid, unknown, badly formed or exceeds what is permitted. • • **PIS** • 403 • PRODUCT_INVALID • The payment product requested is not available for the PSU. • • • 404 • PRODUCT_UNKNOWN • The payment product requested is not supported by the ASPSP. • • • 400 • RESOURCE_BLOCKED • The addressed resource is not addressable by this request, since it is blocked e.g. by a grouping in a signing basket. • • • 400 • TIMESTAMP_INVALID • Timestamp not in accepted time period. Timestamp not in period of accepted time. • • • 400 • PERIOD_INVALID • Requested time period out of bound. • • • 400 • SCA_METHOD_UNKNOWN • Addressed SCA method in the Authentication Method Select Request is unknown or cannot be matched by the ASPSP with the PSU. • • • 409 • STATUS_INVALID • The addressed resource does not allow additional authorisation. • • **OAuth2** • 302 • invalid_request • The request is not well formed because there are parameters missing, value not supported, or parameters repeated. • • • 302 • unauthorized_client • The authenticated client is not authorised to use this type of authorisation. • • • 302 • access_denied • The owner of the resources or the authorised server rejects the

request. • • • 302• unsupported_response_type• The authorisation server does not support the method used to obtain the authorisation code. • • • 302• invalid_scope• The scope requested is invalid, unknown or badly formed. • • • 302• server_error• Error 500 that may not be returned in a redirect. It is returned with this code. • • • 302• temporarily_unavailable• The authorisation server is temporarily unable to process the request, due to a temporary overload or due to maintenance. • • • 400• invalid_request• The request is not well formed because parameters are missing, the value is not supported, parameters are repeated, it includes multiple credentials or uses more than one of the client's authentication mechanisms. • • • 401• invalid_client• Client authentication failure. • • • 400• invalid_grant• The authorisation provided or the refresh token is invalid, expired, revoked, does not coincide with the redirect URL, or was issued by another client. • • • 400• unauthorized_client• The authenticated client is not authorised to use this type of authorisation. • • • 400• unsupported_grant_type• The type of authorisation requested is not supported by the authorisation server. • • • 400• invalid_scope• The scope requested is invalid, unknown, badly formed or exceeds what is permitted. • • **PIS**• 403• PRODUCT_INVALID• The payment product requested is not available for the PSU. • • • 404• PRODUCT_UNKNOWN• The payment product requested is not supported by the ASPSP. • • • 400

400• RESOURCE_BLOCKED• The addressed resource is not addressable by this request, since it is blocked e.g. by a grouping in a signing basket.

• • • 400• TIMESTAMP_INVALID• Timestamp not in accepted time period. Timestamp not in period of accepted time. • • • 400• PERIOD_INVALID• Requested time period out of bound. • • • 400• SCA_METHOD_UNKNOWN• Addressed SCA method in the Authentication Method Select Request is unknown or cannot be matched by the ASPSP with the PSU. • • • 409• STATUS_INVALID• The addressed resource does not allow additional

authorisation. • • **OAuth2** • 302 • invalid_request • The request is not well formed because there are parameters missing, value not supported, or parameters repeated. • • • 302 • unauthorized_client • The authenticated client is not authorised to use this type of authorisation. • • • 302 • access_denied • The owner of the resources or the authorised server rejects the request. • • • 302 • unsupported_response_type • The authorisation server does not support the method used to obtain the authorisation code. • • • 302 • invalid_scope • The scope requested is invalid, unknown or badly formed. • • • 302 • server_error • Error 500 that may not be returned in a redirect. It is returned with this code. • • • 302 • temporarily_unavailable • The authorisation server is temporarily unable to process the request, due to a temporary overload or due to maintenance. • • • 400 • invalid_request • The request is not well formed because parameters are missing, the value is not supported, parameters are repeated, it includes multiple credentials or uses more than one of the client's authentication mechanisms. • • • 401 • invalid_client • Client authentication failure. • • • 400 • invalid_grant • The authorisation provided or the refresh token is invalid, expired, revoked, does not coincide with the redirect URL, or was issued by another client. • • • 400 • unauthorized_client • The authenticated client is not authorised to use this type of authorisation. • • • 400 • unsupported_grant_type • The type of authorisation requested is not supported by the authorisation server. • • • 400 • invalid_scope • The scope requested is invalid, unknown, badly formed or exceeds what is permitted. • • **PIS** • 403 • PRODUCT_INVALID • The payment product requested is not available for the PSU. • • • 404 • PRODUCT_UNKNOWN • The payment product requested is not supported by the ASPSP. • • • 400

RESOURCE_BLOCKED • The addressed resource is not addressable by this request, since it is blocked e.g. by a grouping in a signing basket. • • • 400 • TIMESTAMP_INVALID • Timestamp not in accepted time period. Timestamp not in period of

accepted time. • • • 400• PERIOD_INVALID• Requested time period out of bound. • • • 400• SCA_METHOD_UNKNOWN• Addressed SCA method in the Authentication Method Select Request is unknown or cannot be matched by the ASPSP with the PSU. • • • 409• STATUS_INVALID• The addressed resource does not allow additional authorisation. • • **OAuth2**• 302• invalid_request• The request is not well formed because there are parameters missing, value not supported, or parameters repeated. • • • 302• unauthorized_client• The authenticated client is not authorised to use this type of authorisation. • • • 302• access_denied• The owner of the resources or the authorised server rejects the request. • • • 302• unsupported_response_type• The authorisation server does not support the method used to obtain the authorisation code. • • • 302• invalid_scope• The scope requested is invalid, unknown or badly formed. • • • 302• server_error• Error 500 that may not be returned in a redirect. It is returned with this code. • • • 302• temporarily_unavailable• The authorisation server is temporarily unable to process the request, due to a temporary overload or due to maintenance. • • • 400• invalid_request• The request is not well formed because parameters are missing, the value is not supported, parameters are repeated, it includes multiple credentials or uses more than one of the client's authentication mechanisms. • • • 401• invalid_client• Client authentication failure. • • • 400• invalid_grant• The authorisation provided or the refresh token is invalid, expired, revoked, does not coincide with the redirect URL, or was issued by another client. • • • 400• unauthorized_client• The authenticated client is not authorised to use this type of authorisation. • • • 400• unsupported_grant_type• The type of authorisation requested is not supported by the authorisation server. • • • 400• invalid_scope• The scope requested is invalid, unknown, badly formed or exceeds what is permitted. • • **PIS**• 403• PRODUCT_INVALID• The payment product requested is not available for the PSU. • • • 404• PRODUCT_UNKNOWN• The payment product requested is not supported by the

ASPSP • • • 400

The addressed resource is not addressable by this request, since it is blocked e.g. by a grouping in a signing basket.

- • • 400• **TIMESTAMP_INVALID**• Timestamp not in accepted time period. Timestamp not in period of accepted time.
- • • 400• **PERIOD_INVALID**• Requested time period out of bound.
- • • 400• **SCA_METHOD_UNKNOWN**• Addressed SCA method in the Authentication Method Select Request is unknown or cannot be matched by the ASPSP with the PSU.
- • • 409• **STATUS_INVALID**• The addressed resource does not allow additional authorisation.
- • **OAuth2**• 302• **invalid_request**• The request is not well formed because there are parameters missing, value not supported, or parameters repeated.
- • • 302• **unauthorized_client**• The authenticated client is not authorised to use this type of authorisation.
- • • 302• **access_denied**• The owner of the resources or the authorised server rejects the request.
- • • 302• **unsupported_response_type**• The authorisation server does not support the method used to obtain the authorisation code.
- • • 302• **invalid_scope**• The scope requested is invalid, unknown or badly formed.
- • • 302• **server_error**• Error 500 that may not be returned in a redirect. It is returned with this code.
- • • 302• **temporarily_unavailable**• The authorisation server is temporarily unable to process the request, due to a temporary overload or due to maintenance.
- • • 400• **invalid_request**• The request is not well formed because parameters are missing, the value is not supported, parameters are repeated, it includes multiple credentials or uses more than one of the client's authentication mechanisms.
- • • 401• **invalid_client**• Client authentication failure.
- • • 400• **invalid_grant**• The authorisation provided or the refresh token is invalid, expired, revoked, does not coincide with the redirect URL, or was issued by another client.
- • • 400• **unauthorized_client**• The authenticated client is not authorised to use this type of authorisation.
- • • 400• **unsupported_grant_type**• The type of authorisation requested is not supported by the

authorisation server. • • • 400• invalid_scope• The scope requested is invalid, unknown, badly formed or exceeds what is permitted. • • **PIS**• 403• PRODUCT_INVALID• The payment product requested is not available for the PSU. • • • 404• PRODUCT_UNKNOWN• The payment product requested is not supported by the ASPSP. • • • 400

• • • 400• TIMESTAMP_INVALID• Timestamp not in accepted time period. Timestamp not in period of accepted time. • • • 400• PERIOD_INVALID• Requested time period out of bound. • • • 400• SCA_METHOD_UNKNOWN• Addressed SCA method in the Authentication Method Select Request is unknown or cannot be matched by the ASPSP with the PSU. • • • 409• STATUS_INVALID• The addressed resource does not allow additional authorisation. • • **OAuth2**• 302• invalid_request• The request is not well formed because there are parameters missing, value not supported, or parameters repeated. • • • 302• unauthorized_client• The authenticated client is not authorised to use this type of authorisation. • • • 302• access_denied• The owner of the resources or the authorised server rejects the request. • • • 302• unsupported_response_type• The authorisation server does not support the method used to obtain the authorisation code. • • • 302• invalid_scope• The scope requested is invalid, unknown or badly formed. • • • 302• server_error• Error 500 that may not be returned in a redirect. It is returned with this code. • • • 302• temporarily_unavailable• The authorisation server is temporarily unable to process the request, due to a temporary overload or due to maintenance. • • • 400• invalid_request• The request is not well formed because parameters are missing, the value is not supported, parameters are repeated, it includes multiple credentials or uses more than one of the client's authentication mechanisms. • • • 401• invalid_client• Client authentication failure. • • • 400• invalid_grant• The authorisation provided or the refresh token is invalid, expired, revoked, does not coincide with the redirect URL, or was issued by another

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- • • 400• invalid_grant• The authorisation provided or the refresh token is invalid, expired, revoked, does not coincide with the redirect URL, or was issued by another client.
- • • 400• unauthorized_client• The authenticated client is not authorised to use this type of authorisation.
- • • 400• unsupported_grant_type• The type of authorisation requested is not supported by the authorisation server.
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- • **PIS**• 403• PRODUCT_INVALID• The payment product requested is not available for the PSU.
- • • 404• PRODUCT_UNKNOWN• The payment product requested is not supported by the ASPSP.
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- 409• STATUS_INVALID• The addressed resource does not allow additional authorisation.
- • **OAuth2**• 302• invalid_request• The request is not well formed because there are parameters missing, value not supported, or parameters repeated.
- • • 302• unauthorized_client• The authenticated client is not authorised to use this type of authorisation.
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- • • 404• PRODUCT_UNKNOWN• The payment product requested is not supported by the ASPSP.
- • • 400

- 302• unsupported_response_type• The authorisation server does not support the method used to obtain the authorisation code.
- • • 302• invalid_scope• The scope requested is invalid, unknown or badly formed.
- • • 302• server_error• Error 500 that may not be returned in a redirect. It is returned with this code.
- • • 302• temporarily_unavailable• The authorisation server is temporarily unable to process the request, due to a temporary overload or due to maintenance.
- • • 400• invalid_request• The request is not well formed because parameters are missing, the value is not supported, parameters are repeated, it includes multiple credentials or uses more than one of the client's authentication mechanisms.
- • • 401• invalid_client• Client authentication failure.
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• 400

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• PAYMENT_FAILED • Payment failed. This may be for risk management reasons. • • • 400 • EXECUTION_DATE_INVALID • The requested execution date is not a valid execution date for the

ASPSP. • • • 405• CANCELLATION_INVALID• The directed payment cannot be cancelled. For example, too much time has passed, or there are legal restrictions. • •

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AIS• 401• CONSENT_INVALID• The consent was created by the TPP, but it is not valid for the recourse/service requested.

401• CONSENT_INVALID• The consent was created by the TPP, but it is not valid for the recourse/service requested.

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Or, the consent definition is not complete or invalid. In case of being not complete, the bank is not supporting a

completion of the consent towards the PSU. the definition of the consent is not complete, or is invalid. • • • 400• SESSIONS_NOT_SUPPORTED• The combined service indicator does not support the ASPSP to which the request is directed. • • • 429• ACCESS_EXCEEDED• The accesses to the account have exceeded the accesses allowed per day without a PSU present. • • • 406• REQUESTED_FORMATS_INVALID• The format requested in the Accept field does not correspond to the formats offered by the ASPSP. • • **FCS**• 400• CARD_INVALID• The numbering of the card is unknown by the ASPSP, or is not associated with the PSU. • • • 400• NO_PIIS_ACTIVATION• The PSU has not activated the account for which it is used by the PIIS associated with the TPP. • •

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400● CARD_INVALID● The numbering of the card is unknown by the ASPSP, or is not associated with the PSU.● ● ● 400● NO_PIIS_ACTIVATION● The PSU has not activated the account for which it is used by the PIIS associated with the TPP.● ●

CARD_INVALID● The numbering of the card is unknown by the ASPSP, or is not associated with the PSU.● ● ● 400● NO_PIIS_ACTIVATION● The PSU has not activated the account for which it is used by the PIIS associated with the TPP.● ●

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6.4 Transaction status

Code• Name• Description• • ACCC• AcceptedSettlementCompleted• The entry in the creditor's account has been

completed. • • **ACCP•** AcceptedCustomerProfile• The prior check of the technical validation was correct. The check of the client profile was also

correct. • • **ACFC•** AcceptedFundsChecked• As well as the client profile, the availability of funds has been positively checked.

Name• Description• • ACCC• AcceptedSettlementCompleted• The entry in the creditor's account has been completed. • • **ACCP•** AcceptedCustomerProfile• The

prior check of the technical validation was correct. The check of the client profile was also

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Note: needs ISO 20022 approval • • **ACSC**

• AcceptedSettlementCompleted • Settlement on the debtor's account has been completed.

• **ACSC** • AcceptedSettlementCompleted • Settlement on the debtor's account has been completed.

ACSC • AcceptedSettlementCompleted • Settlement on the debtor's account has been completed.

AcceptedSettlementCompleted • Settlement on the

debtor's account has been completed.

Settlement on the debtor's account has been completed.

Usage: this can be used by the first agent to report to the debtor that the transaction has been completed.

Warning: this status is provided for transaction status reasons, not for financial information. It can only be used after bilateral agreement • • **ACSP**

• AcceptedSettlementInProcess • The previous controls such as technical validations and the profile of the client were correct, and thus the payment initiation has been accepted for its execution. • • **ACTC**

• AcceptedTechnicalValidation • Syntactic and semantic authentication and validation are

correct. • • **ACWC** • AcceptedWithChange • The instruction has been accepted, but needs a change; for example, the date or other data has not been sent.

• **ACSP** • AcceptedSettlementInProcess • The previous controls such as technical validations and the profile of the client were correct, and thus the payment initiation has been accepted for its execution. • • **ACTC**

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The previous controls such as technical validations and the profile of the client were correct, and thus the payment initiation has been accepted for its execution. • • **ACTC** • AcceptedTechnicalValidation • Syntactic and semantic authentication and validation are correct. • • **ACWC** • AcceptedWithChange • The instruction has been accepted, but needs a change; for example, the date or other data has not been sent.

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Also to inform that a change has been applied, for

example, on the payment initiation, and that the execution date has been changed. • • **ACWP** • AcceptedWithoutPosting • The payment instruction included in the credit transfer has been accepted without being sent to the account of the creditor client. • • **RCVD** • Received • The payment initiation has been received by the agent (the ASPSP through the HUB) • • **PATC** • PartiallyAcceptedTechnicalCorrect • These are payment initiations that have been authorised at least by one PSU, but that have not been finally authorised yet by all the applicable PSUs. (SCA multilevel)

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Note: needs ISO 20022

approval• • **PDNG**• Pending• The payment initiation or the individual transaction included in the payment indication is pending. Additional verifications and updates in the status will be carried

out. • • **RJCT**• Rejected• The payment initiation or the individual transaction included in the payment initiation has been rejected. • • **CANC**• Cancelled• Payment initiation has been cancelled before execution

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Remark: This code is accepted as new code by ISO20022.

• • **PART** • PartiallyAccepted • A number of transactions have been accepted, whereas another number of

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Remark: This code may be used only in case of bulk payments. It is only used in a situation where all mandated authorisations have been applied, but some payments have been rejected



6.5 Consent status

Code • **Description** • • **received** • The consent has been received and is technically correct. The data have not yet been authorised. • • **rejected** • The consent has been rejected. • • **partiallyAuthorised** • Due to a multi-level SCA, some but not all the authorisations needed have been carried out. • • **valid** • The consent is accepted and valid for data read requests and specified in the consent. • • **revokedByPsu** • The consent has been revoked by the PSU to the ASPSP. • • **expired** • The consent expired. • • **terminatedByTpp** • The corresponding TPP has terminated the consent using the DELETE request on the recourse of the consent created. • •

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6.6 Types of authentication

Code • Description • SMS_OTP SCA method where an OTP associated with the transaction to be authorised is sent to the PSU via an SMS channel. • • **CHIP_OTP** SCA method where an OTP is generated by an electronic card. Normally the PSU needs a device to use it. After completing the challenge, the device derives an OTP and is shown to the PSU. • • **PHOTO_OTP** SCA method where the challenge is a QR or visual data codified in a similar way, which can be read by a client device or a specific mobile app.

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• **SMS_OTP** SCA method where an OTP associated with the transaction to be authorised is sent to the PSU via an SMS channel. • • **CHIP_OTP** SCA method where an OTP is generated by an electronic card. Normally the PSU needs a device to use it. After completing the challenge, the device derives an OTP and is shown to the PSU. • • **PHOTO_OTP** SCA method where the challenge is a QR or visual data codified in a similar way, which can be read by a client device or a specific mobile app.

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SCA method where the challenge is a QR or visual data codified in a similar way, which can be read by a client device or a specific mobile app.

The device or app creates a visual challenge OTP and displays it to the PSU. • • **PUSH_OTP** • The OTP is sent via PUSH to a dedicated authentication APP and displayed to the PSU. • •

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6.7 Balance type

Code • **Description** • • **closingBooked** • Account balance at the end of the agreed period for the report. This is the sum of the "openingBooked" balances at the start of the period and all the entries entered into the account during the pre-agreed period for the report. • • **expected** • Transactions composed of annotated entries and the entries pending at the request time. • • **openingBooked** • Account balance at the start of the report period. It is always equal to the "closingBooked" balance of the report for the previous period. • • **interimAvailable** • Balance provisionally available. Calculation based on the entries of credit and debit items during the specified period of time. • • **interimBooked** • Balance calculated during the working day, at the time specified and subject to changes during the day. This balance is calculated based on the credit and debit items entered during the specified time/period. • • **forwardAvailable** • Advance of the cash balance available to the account holder at the specified date. • •

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6.8 Charge Bearer

Code • **Description** • • **DEBT** • All the transaction charges are payable by the debtor • • **CRED** • All the transaction charges are payable by the creditor • • **SHAR** • • • **SLEV** • Charges are to be applied following the rules agreed in the service level and/or scheme. • •

Description • • **DEBT** • All the transaction charges are payable by the debtor • • **CRED** • All the transaction charges are payable by the creditor • • **SHAR** • • • **SLEV** • Charges are to be applied following the rules agreed in the service level and/or scheme. • •

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• **SHAR** • • • **SLEV** • Charges are to be applied following the rules agreed in the service level and/or scheme. • •

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Charges are to be applied following the rules agreed in the service level and/or scheme. • •

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6.9 Good practice guide

6.9.1 Remittance Information Unstructured field

This field may be used following the EACT "Association of European Treasurers" standard adopted in BG in the "Mobile P2P Interoperability Framework – Implementation Guidelines v1.0"

The format is as follows:

Field • **Description** • • /DNR/ • Debtor's alias • • /CNR/

• Creditor's alias. (we recommend sending the merchant's FUC) • • /DOC/ • Reference data for the corresponding request. (The Hub mobilises X-Request-Id of the TPP) • • /TXT/ • Additional text/item • •

Description • • /DNR/ • Debtor's alias • • /CNR/ • Creditor's alias. (we recommend sending the merchant's FUC) • • /DOC/ • Reference data for the corresponding request. (The Hub mobilises X-Request-Id of the TPP) • • /TXT/ • Additional text/item • •

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- /TXT/• Additional text/item• •
- /TXT/• Additional text/item• •
- Additional text/item• •

Example

"remittanceInformationUnstructured": "/DOC/db617660-d60d-11e8-9f8b-f2801f1b9fd1/TXT/Purchase in merchant xxx"

6.9.2 Life of the scaRedirect link

The Berlin Group recommends a duration of 5 minutes for this type of link.

