THE Berlin GROUP

A EUROPEAN STANDARDS INITIATIVE

# openFinance API Framework

# Implementation Guidelines for Extended Services

## Extended Payment Initiation Services

Version 2.0

07 November 2023

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  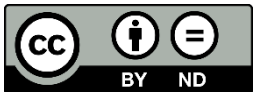
  

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# 1 Introduction

## 1.1 From Core XS2A Interface to openFinance API

With [PSD2] the European Union has published a directive on payment services in the internal market. Among others [PSD2] contains regulations on services to be operated by so called Third Party Payment Service Providers (TPP) on behalf of a Payment Service User (PSU). These services are

- Payment Initiation Service (PIS) to be operated by a Payment Initiation Service Provider (PISP) TPP as defined by article 66 of [PSD2],
- Account Information Service (AIS) to be operated by an Account Information Service Provider (AISP) TPP as defined by article 67 of [PSD2], and
- Confirmation on the Availability of Funds Service (FCS) to be used by a Payment Instrument Issuing Service Provider (PIISP) TPP as defined by article 65 of [PSD2].

To implement these services (subject to PSU consent) a TPP needs to access the account of the PSU. The account is managed by another PSP called the Account Servicing Payment Service Provider (ASPSP). To support the TPP in accessing the accounts managed by an ASPSP, each ASPSP has to provide an "access to account interface" (XS2A interface). Such an interface has been defined in the Berlin Group NextGenPSD2 XS2A Framework.

This XS2A Framework is now planned to be extended to extended services. This interface is addressed in the following as **openFinance API**. This openFinance API differs from the XS2A interface in several dimensions:

- The extended services might not rely anymore solely on PSD2.
- Other important regulatory frameworks which apply are e.g. GDPR.
- The openFinance API can address different types of **API Clients** as access clients, e.g. TPPs regulated by an NCA according to PSD2, or corporates not regulated by an NCA.
- The extended services might require contracts between the access client and the ASPSP.
- While the client identification at the openFinance API can still be based on eIDAS certificates, they do not need to be necessarily PSD2 compliant eIDAS certificates.
- The extended services might require e.g. the direct involvement of the access client's bank for KYC processes.

**Note:** The notions of API Client and ASPSP are used because of the technical standardisation perspective of the openFinance API. These terms are analogous to "asset broker" and "asset holder" resp. in the work of the ERPB on a SEPA API access scheme.

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**Note:** In implementations, the API services of several ASPSPs might be provided on an aggregation platform. Such platforms will be addressed in the openFinance API Framework as "API provider".

The following account access methods are covered by this framework:

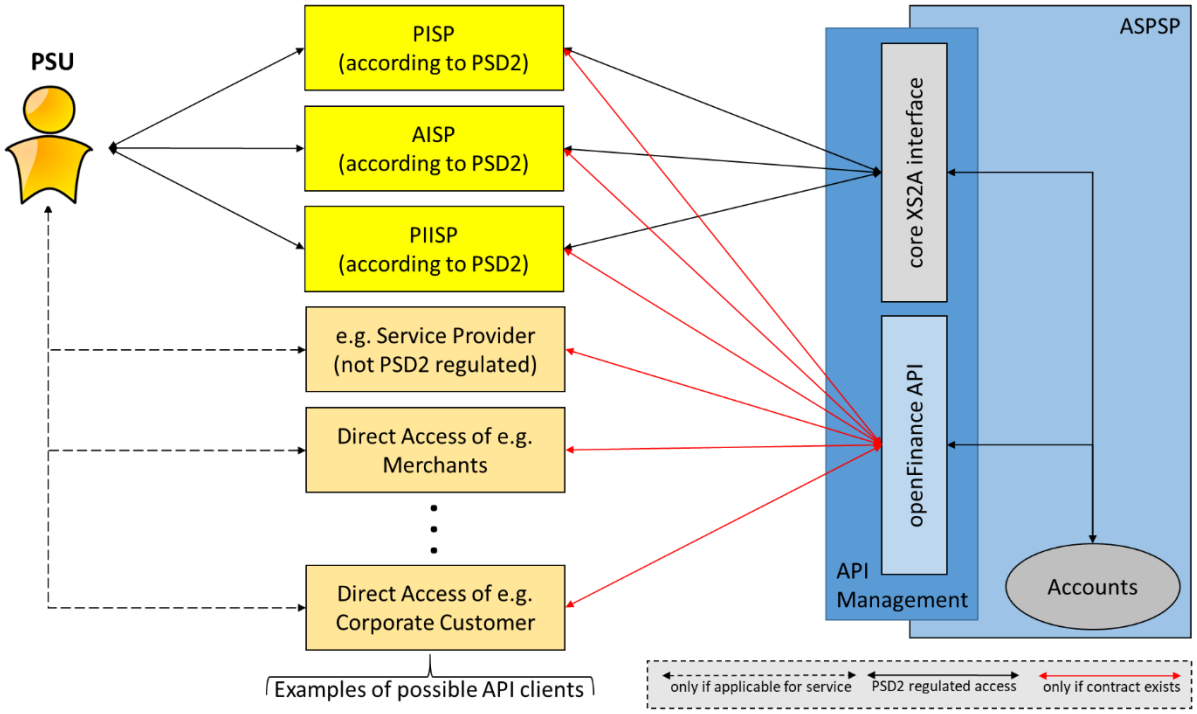


Figure 1: Core XS2A interface and openFinance API

The ASPSP may restrict the access to the services offered at its openFinance API and require dedicated onboarding. The requirements for the rights to access to services offered at the openFinance API are out of scope of this document. These requirements are described in a dedicated operational rules document [oFA-OR-ADM].

## 1.2 Extended Payment Initiation Services

The core XS2A Interface as introduced above is already supporting Payment Initiation Services (PIS) for several products like single payments, bulk payments as well as standing orders. These services follow the sole functionality of online channels of the related ASPSP: After authorisation of the payment by the PSU, the payment is either directly initiated (single or bulk payment) or at a dedicated execution date/date and time. For all payments, the decision of execution is taken at a pre-defined time and will depend a.o. on the limits and current balances of PSUs, respectively the balances at the time of execution. The limits are terms of the ASPSP's risk management.

For the envisaged Extended Services, the payment **initiation** function of the openFinance API will go beyond the ASPSP online channels functionality. But still, the payment as such will be a payment between the PSU and the defined creditor under the payment scheme addressed in the payment initiation, e.g. a SEPA Credit Transfer. All rules of the related payment scheme will apply once the payment is executed.

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The specific function in the Extended Payment Initiation Services is to make the **initiation phase** more flexible, i.e.

- separate authorisation and actual initiation processes as well as
- unbundle risk management functionality from the actual payment initiation, but already apply e.g. limit and balance checks during the authorisation and hence
- potentially secure the future payment initiation in addition.

To enable this, the ASPSP needs to keep the result of the risk management processes during authorisation in mind – this is done e.g. via a reservation of the related funds at the related account or by taking into account credit limits of the PSU. This will ensure that the related funds are not available anymore for other payment initiations e.g. for other payments like other PIS, cards or in ASPSP online channels, if requested accordingly by the TPP. Commercial contracts between the TPP and the ASPSP (either bilaterally or multilaterally agreed via an API access scheme) could alternatively provide a bank guarantee for the authorised payments if applicable.

The flexible initiation phase will make it easy for the PISP to offer from their side products to the market like deferred payments (as needed e.g. for "e-commerce payments by delivery"), payment guarantee or partial payments. Payment functionalities where any sort of risk measures is applied supporting the future payment execution are called "secured payments" in this document. The ASPSP may communicate the actual chosen securing measure to the TPP in the response to the first call of a transaction towards the openFinance API for secured payments.

In addition, the same services with flexible authorisation and initiation processes will be offered without dedicated reservation of funds as basic services. These basic services might be important e.g. in a corporate context where payment authorisation and payment initiation might diverge more in the timeline, such that a reservation of funds would not easily be applicable. Such extended payment functions will be referred to as "not secured payments" in this document.

The same extended service will also apply to recurring payments. The Extended Payment Initiation Services will support a variant, where the PSU is only authorising a maximum amount per dedicated period. The PISP will then initiate the payment just before the recurring execution date with the actual amount which might be less. This version of the API specification is concentrating on push variants, where a credit transfer is initiated via the openFinance API. Pull variants, where the client is pulling the related amounts through pull payment decoupled from the openFinance API might be covered in later versions of the API specification.

**Note:** Even if introduced for TPP related scenarios, the related premium payment services and related technical endpoints could also be offered in a direct access scenario e.g. for corporates of an ASPSP to initiate the analogous payment services directly.

**RFU:** The Extended Payment Initiation Services will offer in this version only the extended payment initiation services as such. In a next phase, these payments could in addition support the delivery of documents related to the payment to the PSU via the ASPSP. This could be related receipts, invoices or contractual documents. Sections where this has a potential future

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impact in this document are marked by RFU (Remark on Future Usage) to make these plans transparent to the market.

### 1.3 Document Structure

This document specifies the Extended Payment Initiation Services in detail.

Section 2 is providing specific, but still abstract information on the application layer of this service like service API access methods or service specific error codes.

Section 3 defines the API for Extended Payment Initiation Services in detail.

### 1.4 Document History

| Version | Change/Note | Approved |
|---|---|---|
| 0.9 | Draft for Market Consultation | 2022-01-19 by openFinance TF |
| 1.0 | Feedback from Market Consultation;<br><br>Editorial review and addition of process diagrams in Section 3.1.<br><br>Added transaction status reason codes in several sections.<br><br>Added a new access method for retrieving initiations in Section 3.14 | 2022-04-29 openFinance TF |
| Draft 2.0 | Adapt to Version 2 documentation.<br><br>Add the new "Multiple Recurring Payment Service" in Section 3.6, 3.8, 3.9 and 3.10 | July 2023 |
| Draft 2.0 | Integrate Feedback market consultation | 03 November 2023 openFinance TF |

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# 2 Application Layer: Guiding Principles

## 2.1 Signing Messages at Application Layer

The same conditions on signing messages by the API Client as defined in [oFA-ProtSec] apply to the extended payment initiation process, cp. Section 3.

## 2.2 Additional Error Information

The Extended Payment Initiation Service makes use of dedicated error codes offered in [oFA-ProtSec] and [oFA DaD].

**NOTE:** Please note that the error information will be adapted when introducing openFinance services, i.e. with the V2 family of the API: Banking related errors in payment processing (like not sufficient liquidity) is in future transported via the transaction status reason code, not necessarily via additional error information. The following codes defined in the ISO20022 external code list are used for the related errors:

| **Status Reason Code** | **Description** | **Usage** |
|---|---|---|
| SL11 | CreditorNotOnWhitelistOfDebtor | BENEFICIARY_WHITELISTING_REQUIRED<br><br>Indicates that in order to execute the payment, the PSU needs to explicitly add the beneficiary to a credit transfer whitelist via a banking channel. |
| AM04 | InsufficientFunds | FUNDS_NOT_AVAILABLE<br><br>Indicates that the reason for rejecting the payment is that the required funds have been found to be not available during processing after the initial acceptance of the payment initiation. |
| AM21 | LimitExceeded | FUNDS_NOT_AVAILABLE<br><br>Indicates that the reason for rejecting the payment is that the limits for executing the payment are identified as exceeded during processing after the initial acceptance of the payment initiation. |
| BEXX | There are several codes identifying specific invalid data. | CONTENT_INVALID<br><br>Indicates that the reason for rejecting the payment is that the content of the payment initiation has been found invalid during processing after the initial acceptance of the payment initiation. |

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Other errors might still be communicated via dedicated error codes or alternatively/additionally by corresponding status reason codes.

## 2.3 API Access Methods

The following table gives an overview on the HTTP access methods supported by the API endpoints for the Extended Payment Initiation Services.

**Conditions in the following tables**

Whether the support of a method is mandated for the ASPSP by this specification or whether it is an optional feature for the ASPSP, is denoted in column "Condition". Please note that this condition is given relative to the parent node of the path, i.e. the condition e.g. on a method on /v2/{extended-payments}/{payment-product}/{paymentId} applies only if the endpoint /v2/{extended-payments}/{payment-product} is supported at all.

Please note that all methods called by an API Client, which are addressing dynamically created resources in this API, may only apply to resources, which have been created by the same API Client before.

**Examples**

Please note also, that the Description's column contains a reference to a section where the endpoint is described in more detail. These sections provide examples for all related access methods.

**New Services**

The {extended-payment-services} is referring to the service types XFPIS, XDPIS, XDFPIS, XMDPIS, XMDFPIS, XRPIS, XRFPIS and XMRPIS as defined in [oFA-OR-EPIS] and the related eight[2] endpoint instances

- secured-payments for XFPIS,
- deferred-payments for XDPIS,
- secured-deferred-payments for XDFPIS,
- multiple-deferred-payments for XMDPIS,
- secured-multiple-deferred-payments for XMDFPIS,
- recurring-payments for XRPIS,
- secured-recurring-payments for XRFPIS and
- multiple-recurring-payments for XMRPIS.

Please note that the "F" within the codes above indicates "funds reservation". The other methods introduced in [oFA-OR-EPIS] are to be defined within the further standardisation work for extended payment initiation services.

[2] Please note that the Operational Rules only defined 6 types. In between it was decided that secured payments as such are defined as a separated service.

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### Authorisation related endpoints

Please note that authorisation related processes and endpoints are defined generically in [oFA-ProtSec]. They are not further listed here.

| Endpoints/Resources | Method | Condition | Description |
|---|---|---|---|
| {extended-payment-services}/{payment-product} | POST | Mandatory | Create an extended payment resource addressable under {paymentId} with all data relevant for<br>• the corresponding requested execution information and<br>• the underlying payment product.<br>This is the first step in the API to initiate the related extended payment initiation service.<br><br>See Section 3.3 for secured standard payments.<br><br>See Section 3.4 for deferred payments (secured or unscecured).<br><br>See Section 3.6 for recurring payments (secured or unsecured) |
| {extended-payment-services}/{payment-product}/{paymentId} | GET | Mandatory | Read the details of an extended payment resource.<br><br>See Section 3.13 |
| {extended-payment-services}/{payment-product}/{paymentId}/status | GET | Mandatory | Read the transaction status of the related extended payment resource.<br><br>See Section 3.11 |
| {extended-payment-services}/{payment-product}/{paymentId}/initiations | POST | Mandatory | For deferred payments:<br><br>Requests the deferred initiation of a payment transaction with an (partial) amount of the reserved extended payment initiation amount. The sum of all initiated (partial) amount may not exceed the amount of the reserved extended payment initiation amount.<br><br>This access method can only be successful after a positive |

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| Endpoints/Resources | Method | Condition | Description |
|---|---|---|---|
| | | | authorisation, i.e. as soon as the transactionStatus of the extended payment resource equals e.g. ACTC.<br><br>If the endpoint addressed by {extended-payment-services} implements a multiple deferred payment (secured or not) then this call can also indicate<br><br>• that this is the last payment to be initiated based on this resource or<br>• that this call is closing the related amount authorised and no partial deferred payment can be further dedicatedly initiated based on this resource.<br>A POST command on this endpoint after an active closing of the funds authorisation will be rejected.<br><br>See Section 3.5 |
| {extended-payment-services}/{payment-product}/{paymentId}/initiations | POST | Mandatory | For recurring payments:<br><br>Submits a payment initiation within one execution period with the related instructedAmount which needs to be equal or smaller to the maximum amount instructed when setting up this recurring payment.<br><br>This access method can only be successful after a positive authorisation, i.e. as soon as the transactionStatus of the extended payment resource equals e.g. ACTC.<br><br>See Section 3.7 |
| {extended-payment-services}/{payment-product}/{paymentId}/initiations | POST | Mandatory | For multiple recurring payments:<br><br>Requests the deferred initiation of a payment transaction with a (partial) amount of the maximum authorised amount per period. The sum of all initiated (partial) amounts per period |

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| Endpoints/Resources | Method | Condition | Description |
|---|---|---|---|
| | | | may not exceed the amount of the authorised extended payment initiation amount.<br><br>This access method can only be successful after a positive authorisation, i.e. as soon as the transactionStatus of the extended payment resource equals e.g. ACTC.<br><br>This access method may or may not need an explicit activation step for execution of the actual payment, see below.<br><br>See Section 3.8 |
| {extended-payment-services}/{payment-product}/{paymentId}/initiations/initiationId | PUT | Optional | This initiation activation service is only applicable to the two-step initiation process within multiple recurring payments.<br><br>In a two-step initiation process only the second call will activate the actual initiation. If no positive second step is processed in such a scenario in a defined timeframe, then the initiation will not take place.<br><br>See Section 3.9 |
| {extended-payment-services}/{payment-product}/{paymentId}/initiations | GET | Mandatory | Retrieves a list of already submitted initiations on an addressed payment resource.<br><br>See Section 3.14 |
| {extended-payment-services}/{payment-product}/{paymentId}/initiations/{initiationId} | GET | Mandatory | The details of the deferred/recurring initiation.<br><br>See Section 3.15 |
| {extended-payment-services}/{payment-product}/{paymentId}/initiations/{initiationId}/status | GET | Mandatory | The details of the deferred/recurring initiation status.<br><br>See Section 3.12 |

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| Endpoints/Resources | Method | Condition | Description |
|---|---|---|---|
| {extended-payment-service}/{payment-product}/{paymentId} | DELETE | Optional | Cancels the addressed payment with resource identification paymentId if applicable to the payment-service, payment-product and received in product related timelines.<br><br>The response to this DELETE command will tell the TPP whether the<br><br>• access method was rejected<br>• access method was successful, or<br>• access method is generally applicable, but further authorisation processes are needed.<br><br>Section 3.16 |


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# 3 Extended Payment Initiation

**NOTE:** The blue colour in this chapter is identifying attributes of the specification which are in use only for embedded SCA approaches.

**NOTE:** The orange colour in this chapter is identifying paragraphs of the specification, where the Extended Payment Initiation Service is deviating from the Core Payment Initiation Services as defined in [oFA-ComV2].

## 3.1 Extended Payment Initiation Flows

Please note that the simple secured payment service (XFPIS) is following exactly the flows of the payment initiation as defined in [oFA-ComV2] – securing the payment is a pure backend process in this case.

For all other extended payment initiations, the flow can be separated into the authorisation flow and the actual initiation flow. As for regular payment initiations the extended payment initiation flow depends heavily on the SCA approach implemented by the ASPSP. The authorisation flow then equals exactly the payment initiation flows as defined in [oFA-ComV2]. The only difference is that the payment is then authorised for these extended payment initiations but is **not** automatically executed after authorisation – this shows in the diagram below, that the transactionStatus on payment resource level shows the payment authorisation status and **not** the initiation status. The API Client then always needs to initiate one or several initiations **afterwards**.

Due to this similarity, only very few exemplary API flows are provided as an overview for different scenarios in extended payment authorisation. Other flows will be inherited in analogy to the payment initiation flows in [oFA-ComV2].

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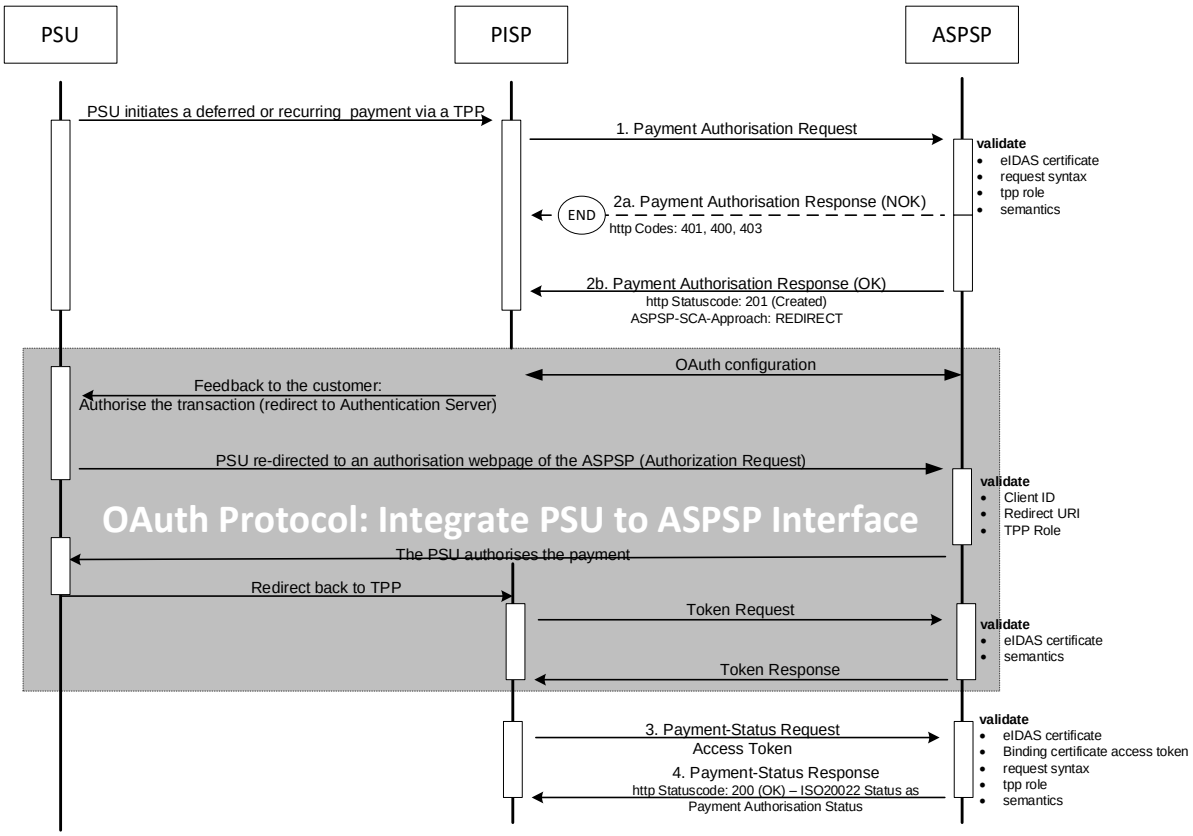
### 3.1.1 OAuth2 SCA for Authorisation: Implicit Start of the Authorisation Process

If the ASPSP supports the OAuth2 SCA Approach, the flow is very similar to the Redirect SCA Approach with implicit start of the Authorisation Process. Instead of redirecting the PSU directly to an authentication server, the OAuth2 protocol is used for the transaction authorisation process.

**Remark:** The OAuth2 SCA Approach with explicit start of the Authorisation Process is treated analogously.





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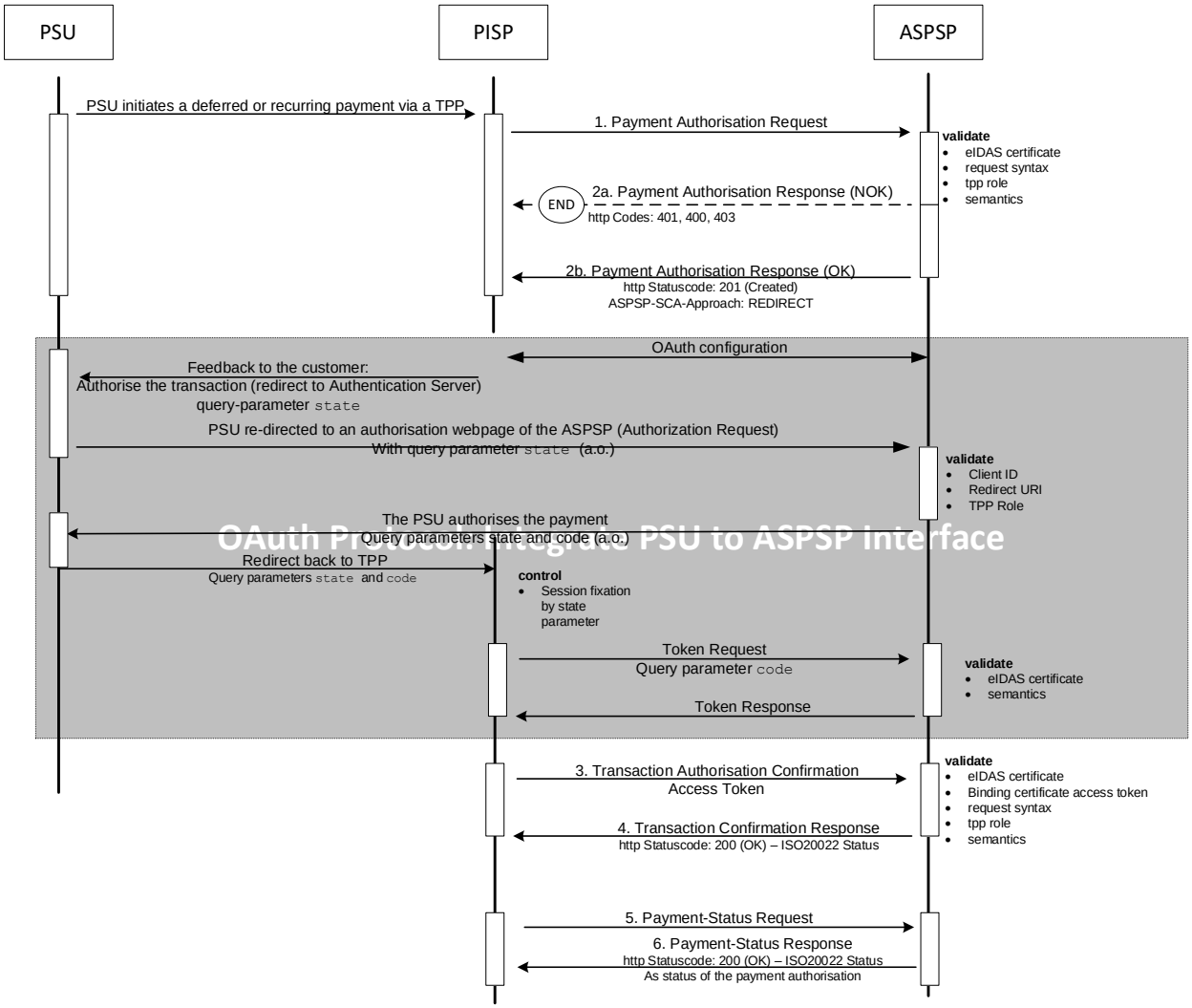
### 3.1.2 OAuth2 SCA for Payment Authorisation: Implicit Start of the Authorisation Process with Confirmation Code

In addition to the scenario above, an authorisation confirmation request might be requested by the ASPSP from the TPP after the session is re-redirected to the TPP's system and after the TPP's control on session fixation. In the end, a payment status request might be needed by the TPP to control the exact status of the payment authorisation.

**Remark:** The OAuth2 SCA Approach with explicit start of the Authorisation Process and with transaction confirmation step is treated analogously.




It is further recommended for ASPSPs and TPPs in this case to follow the Security Best Practice definitions as defined in [oFA-ProtSec].

### 3.1.3 Payment initiation for deferred payments

In the following, the initiation flow of a deferred payment is shown. It is assumed that the payment has been authorised already as shown e.g. for the case of the OAuth SCA channel in Section 3.1.1 or 3.1.2 with a resource addressed by the parameter paymentId. The initiation as such is without PSU interaction. Depending on the service several deferred initiations might

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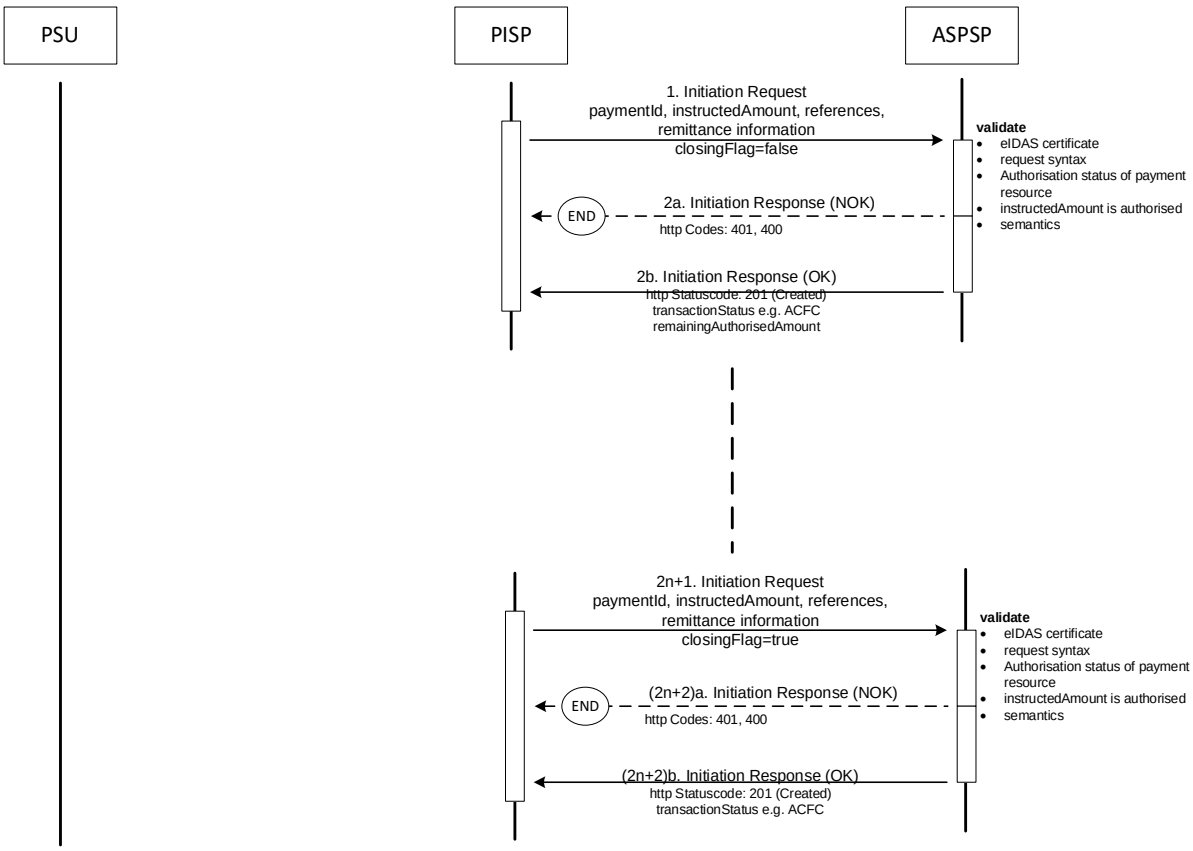
be supported as shown in the below picture, where the sum of the instructedAmount entries of all the initiations is less or equal to the authorised amount.




### 3.1.4 Payment initiation for recurring payments

In the following, the initiation flow of a recurring payment is shown. It is assumed that the payment has been authorised already as shown e.g. for the case of the OAuth SCA channel in Section 3.1.1 or 3.1.2 with a related payment resource addressed by the parameter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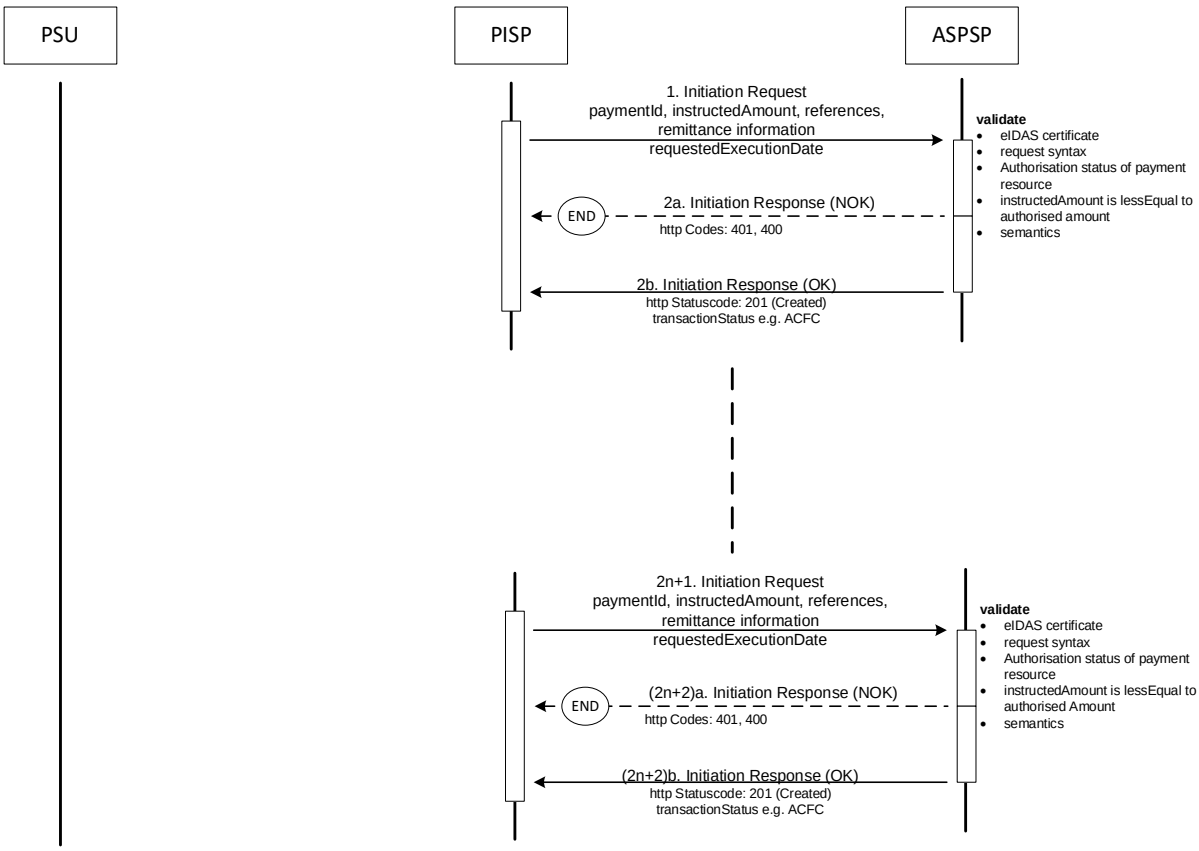
paymentId. The initiation as such is without PSU interaction. Depending on the execution period agreed during the authorisation, initiations will be repeated every period.




### 3.1.5 Payment initiation for multiple recurring payments

In the following, the initiation flow of a multiple recurring payment is shown. It is assumed that the payment has been authorised already as shown e.g. for the case of the OAuth SCA channel in Section 3.1.1 or 3.1.2 with a related payment resource addressed by the parameter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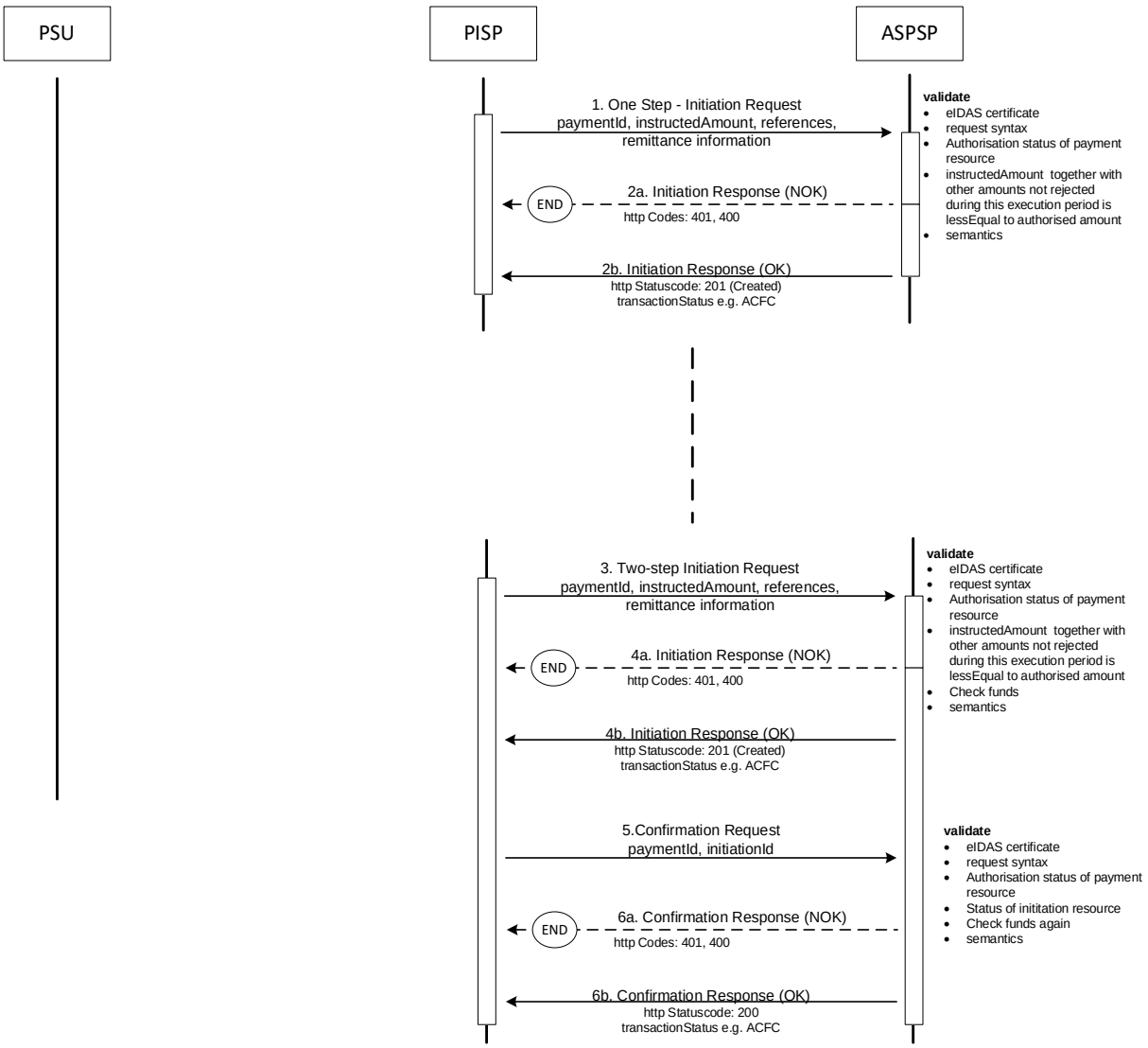
paymentId. The initiation as such is without PSU interaction. Depending on the execution period agreed during the authorisation, initiations will be repeated every period.




## 3.2 Data Overview Payment Initiation Service

All dedicated authorisation related requests are used as defined in [oFA-ProtSec] and not further specified here. Also generic header attributes needed for authorisation processes, PSU Identification or push resource status functions in all generic Transaction Initiation Requests are described in detail in the framework documentation mentioned above and are not further specified here. The related yaml files will cover all details.

### PSU IP Address/Port and Further PSU related Information

The section cited above introduces also several PSU related context data. They are not mentioned anymore in the following detailed API call definitions for matter of better readability, as long as the usage is not mandated.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## 3.3 Secured Payment Initiation Request

### Call

```
POST /v2/secured-payments/{payment-product}
```

Creates an extended payment resource for secured payments at the ASPSP for the XFPIS service.

**NOTE:** This endpoint supports only some minor technical adaptions compared to compliance related payment initiation as defined in [oFA-ComV2]. Especially, no explicit initiation of the transfer execution is supported. This is done implicitly like in the Core XS2A interface.

**NOTE**: This endpoint supports generically secured payment with and without requested execution dates. The ASPSP might restrict the functionality to one of these functions.

### Path Parameters

| Attribute | Type | Description |
|---|---|---|
| payment-product | String | The addressed payment product endpoint, e.g. for SEPA Credit Transfers (SCT). The default list of products supported in this standard is:<br><br>• sepa-credit-transfers<br>• micro-sepa-credit-transfers<br>• instant-sepa-credit-transfers<br>• target-2-payments<br>• cross-border-credit-transfers<br>The ASPSP will publish which of the payment products/endpoints will be supported.<br><br>For definitions of basic non-Euro generic products see [oFA PFDom].<br><br>Further products might be published by the ASPSP within its XS2A documentation. |

**NOTE**: The micro-sepa-credit-transfers endpoint is a product endpoint where an ASPSP can offer (secured) SCT payments without SCA under certain rules and obeying to the micro payment exception rules of [PSD2]. A rule could e.g. be "up to 10 payments per TPP and PSU under 10 Euro in a row before SCA is required". Since such a product might require a dedicated risk management and price structure, it is supported on a dedicated endpoint.

### Query Parameters

No Query Parameter

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### Request Header

| Attribute | Type | Condition | Description |
|---|---|---|---|
| Content-Type | String | Mandatory | application/json |
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party.<br><br>This is the unique ID of TPP for the payment initiation regarding PSD2 article 47 and EBA RTS article 29. |
| Authorization | String | Conditional | Bearer Token. Is contained only, if an OAuth2 based authentication was performed in a pre-step or an OAuth2 based SCA was performed in a preceding AIS service in the same session. |
| Consent-ID | String | Optional | This data element may be contained, if the payment initiation transaction is part of a. combined AIS/PIS service. This then contains the "consentId" of the related AIS consent, which was performed prior to this payment initiation. The access attribute in this case needs to contain the "paymentInitiations" access right for the related account. |
| PSU-IP-Address | String | Mandatory | The forwarded IP Address header field consists of the corresponding HTTP request IP Address field between PSU and TPP.<br><br>If not available, the TPP shall use the IP Address used by the TPP when submitting this request. |
| API-Contract-ID | String | Mandatory | ID of the underlying service contract between API Client and API Server, resulting from API Client onboarding, following [oFA-OR-ADM] |

### Request Body

The payment data to be transported in the request body is dependent on the chosen payment product. Some standard definitions related to the abovementioned standard products are defined in [oFA PFDom] Further definitions might be given community or ASPSP specific.

In difference to the deferred payment initiations as defined in Section 3.4, the attribute requestedExpiryDateTime is not supported in this case.

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**NOTE:** In this premium scenario, a direct answer on the availability of funds is integrated, funds are reserved. As a consequence the header attribute TPP-Rejection-NoFunds-Preferred from a compliance solution is not supported.

### Response Code

The HTTP response code equals 201.

### Response Header

| Attribute | Type | Condition | Description |
|---|---|---|---|
| Location | String | Mandatory | Location of the created resource (if created) |
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party. |

### Response Body

| Attribute | Type | Condition | Description |
|---|---|---|---|
| transactionStatus | Transaction Status | Mandatory | The values defined in [oFA-ComV2]might be used. |
| reasonCode | Status Reason Code | {Or - Optional | Additional information on the reason for e.g. rejecting the request. |
| reasonProprietary | Max35Text | Or – Optional} | Proprietary additional information on the reason for e.g. rejecting the request. |
| paymentId | Max70Text | Mandatory | resource identification of the generated payment resource. |
| securedBy | Securing Method Code | Optional | The way of securing the funds for the transaction amount. |
| transactionFees | Amount | Optional | Might be used by the ASPSP to transport the total transaction fee applicable to the PSU and relevant for the underlying payments. This field includes the entry of the currencyConversionFees if applicable. |
| currency Conversion Fee | Amount | Optional | Might be used by the ASPSP to transport specific currency conversion fees related to the initiated credit transfer. |
| estimatedTotal Amount | Amount | Optional | The amount which is estimated to be debted from the debtor account. |

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| Attribute | Type | Condition | Description |
|---|---|---|---|
| | | | Note: This amount includes fees. |
| estimated Interbank Settlement Amount | Amount | Optional | The estimated amount to be transferred to the payee. |
| transactionFee Indicator | Boolean | Optional | 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.<br><br>If equals false, the transaction will not involve additional specific transaction costs to the PSU unless the fee amount is given specifically in the data elements transactionFees and/or currencyConversionFees.<br><br>If this data element is not used, there is no information about transaction fees unless the fee amount is given explicitly in the data element transactionFees and/or currencyConversionFees. |
| scaMethods | Array of authenticatio n objects | Condition al | This data element might be contained, if SCA is required and if the PSU has a choice between different authentication methods. Depending on the risk management of the ASPSP this choice might be offered before or after the PSU has been identified with the first relevant factor, or if an access token is transported. If this data element is contained, then there is also a hyperlink of type "startAuthorisationWith AuthenticationMethodSelection" contained in the response body.<br><br>These methods shall be presented towards the PSU for selection by the TPP. |
| chosenSca Method | Authenticatio n object | Condition al | This data element is only contained in the response if the ASPSP has chosen the Embedded SCA Approach, if the PSU is already identified e.g. with the first relevant factor or alternatively an access token, if SCA is required and if the authentication method is implicitly selected. |
| challengeData | Challenge | Condition al | It is contained in addition to the data element "chosenScaMethod" if challenge data is needed for SCA. |

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| Attribute | Type | Condition | Description |
|---|---|---|---|
| | | | In rare cases this attribute is also used in the context of the "startAuthorisationWithPsuAuthentication" or "startAuthorisactionWithEncryptedPsuAuthentication" link. |
| _links | Links | Mandatory | A list of hyperlinks to be recognised by the API Client. The actual hyperlinks used in the response depend on the dynamical decisions of the ASPSP when processing the request. The potential links for this response message are generically defined in [oFA-ProtSec] for all Transaction Initiation Response messages. These links will also be contained in the related Open API files.<br><br>**Remark**: All links can be relative or full links, to be decided by the ASPSP. |
| psuMessage | Max500Text | Optional | Text to be displayed to the PSU |
| apiClientMessages | Array of TPP Message Information | Optional | Messages to the TPP on operational issues. |

## Example

### *Request*

```
POST https://api.testbank.com/openfinance/v2/secured-payments/sepa-credit-transfers
Content-Type:           application/json
X-Request-ID:           99391c7e-ad88-49ec-a2ad-99ddcb1f7721
PSU-IP-Address:         192.168.8.78
PSU-GEO-Location:       GEO:52.506931;13.144558
PSU-User-Agent:         Mozilla/5.0 (Windows NT 10.0; WOW64; rv:54.0)
Gecko/20100101 Firefox/54.0
Date:                   Sun, 06 Aug 2021 15:02:37 GMT

{
 "paymentIdentfication":
      {"endToEndId": "12345-123456-12345678",
       "instructionId": "my-instruction-1122334"},
  "instructedAmount": {"currency": "EUR", "amount": "19.50"},
  "debtorAccount": {"iban": "DE40100100103307118608"},
  "creditorAccount": {"iban": "DE02100100109307118603"},
  "creditor":
```


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```
      {"name": "Merchant",
       "additionalPartyInformation":
            {"tradeName": "cool internet merchant"}
      },
  "remittanceInformationUnstructured": [{"Ref Number Merchant, Payment
before delivery"}]"
}
```

## 3.4 Deferred Payment Authorisation Request

### Call

```
POST /v2/{extended-payment-services}/{payment-product}
```

Creates an extended payment resource for deferred payments at the ASPSP.

### Path Parameters

| Attribute | Type | Description |
|---|---|---|
| extended-payment-service | String | The addressed Extended Payment Initiation Service. The default list is<br>• deferred-payments for XDPIS<br>• secured-deferred-payments for XDFPIS,<br>• multiple-deferred-payments for XMDPIS,<br>• secured-multiple-deferred-payments for XMDFPIS |
| payment-product | String | The addressed payment product endpoint, e.g. for SEPA Credit Transfers (SCT). The default list of products supported in this standard is:<br>• sepa-credit-transfers<br>• micro-sepa-credit-transfers<br>• instant-sepa-credit-transfers<br>• target-2-payments<br>• cross-border-credit-transfers<br>The ASPSP will publish which of the payment products/endpoints will be supported.<br><br>For definitions of basic non-Euro generic products see [oFA PFDom].<br><br>Further products might be published by the ASPSP within its XS2A documentation. |

**NOTE**: The micro-sepa-credit-transfers endpoint is a product endpoint where an ASPSP can offer some (secured) SCT payments without SCA under certain rules and obeying to the micro


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payment exception rules of [PSD2]. A rule could e.g. be "up to 10 payments per TPP and PSU under 10 Euro in a row before SCA is required".

### Query Parameters

No Query Parameter

### Request Header

| Attribute | Type | Condition | Description |
|---|---|---|---|
| Content-Type | String | Mandatory | application/json |
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party.<br><br>This is the unique ID of TPP for the payment initiation regarding PSD2 article 47 and EBA RTS article 29. |
| Authorization | String | Conditional | Bearer Token. Is contained only, if an OAuth2 based authentication was performed in a pre-step or an OAuth2 based SCA was performed in a preceding AIS service in the same session. |
| Consent-ID | String | Optional | 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. The access attribute in this case needs to contain the "paymentInitiations" access right for the related account. |
| PSU-IP-Address | String | Mandatory | The forwarded IP Address header field consists of the corresponding HTTP request IP Address field between PSU and TPP.<br><br>If not available, the TPP shall use the IP Address used by the TPP when submitting this request. |
| API-Contract-ID | String | Mandatory | ID of the underlying service contract between API Client and API Server, resulting from API Client onboarding, following [oFA-OR-ADM] |

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### Request Body

The payment data to be transported in the request body is dependent on the chosen payment product. Some standard definitions related to the abovementioned standard products are defined in [oFA PFDom]. Further definitions might be given community or ASPSP specific.

**NOTE**: Please note that the attribute requestedExpiryDateTime, which is contained in the addtionalRequestInformation attribute supports the following semantic:

The last time stamp in explicit time zone for which a

- related reservation of funds would apply in a scenario of a secured payment,
- related authorisation would apply in a scenario of a non-secured payment

as requested by the API Client.

**NOTE:** In this premium scenario, a direct answer on the availability of funds is often integrated, funds are reserved. As a consequence, the header attribute TPP-Rejection-NoFunds-Preferred used in the compliance solution is not supported.

### Response Code

The HTTP response code equals 201.

### Response Header

| Attribute | Type | Condition | Description |
|---|---|---|---|
| Location | String | Mandatory | Location of the created resource (if created) |
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party. |

### Response Body

| Attribute | Type | Condition | Description |
|---|---|---|---|
| transactionStatus | Transaction Status | Mandatory | The values defined in [oFA-ComV2]might be used. |
| reasonCode | Status Reason Code | {Or - Optional | Additional information on the reason for e.g. rejecting the request |
| reasonProprietary | Max35Text | Or – Optional} | Proprietary additional information on the reason for e.g. rejecting the request. |
| paymentId | Max70Text | Mandatory | resource identification of the generated payment initiation resource. |

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| Attribute | Type | Condition | Description |
|---|---|---|---|
| securedBy | Max35Text | Optional | The way of securing the funds for the transaction amount. |
| maximumNumberOfInitiations | Integer | Optional | The maximum number of deferred payments which might be initiated on this resource. If provided, the reservations of funds shall be closed by the ASPSP after the last permitted deferred initiation. |
| expiryDateTime | ISO DateTime | Conditional | Shall be provided by the ASPSP in case of deferred payments.<br><br>The last time stamp of validity of<br><br>- the related funds reservation (and authorisation) in case of a secured payment and<br><br>- the related authorisation in case of a non-secured payment<br><br>as determined by the ASPSP in ASPSP time zone. This date might deviate from the requestedExpiryDateTime. |
| transactionFees | Amount | Optional | Might be used by the ASPSP to transport the total transaction fee applicable to the PSU and relevant for the underlying payments. This field includes the entry of the currencyConversionFees if applicable. |
| currencyConversionFee | Amount | Optional | Might be used by the ASPSP to transport specific currency conversion fees related to the initiated credit transfer. |
| estimatedTotalAmount | Amount | Optional | The amount which is estimated to be debted from the debtor account.<br><br>Note: This amount includes fees. |
| estimatedInterbankSettlementAmount | Amount | Optional | The estimated amount to be transferred to the payee. |
| transactionFeeIndicator | Boolean | Optional | 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. |

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| Attribute | Type | Condition | Description |
|---|---|---|---|
| | | | If equals false, the transaction will not involve additional specific transaction costs to the PSU unless the fee amount is given specifically in the data elements transactionFees and/or currencyConversionFees.<br><br>If this data element is not used, there is no information about transaction fees unless the fee amount is given explicitly in the data element transactionFees and/or currencyConversionFees. |
| scaMethods | Array of authenticati on objects | Conditional | This data element might be contained, if SCA is required and if the PSU has a choice between different authentication methods. Depending on the risk management of the ASPSP this choice might be offered before or after the PSU has been identified with the first relevant factor, or if an access token is transported. If this data element is contained, then there is also a hyperlink of type "startAuthorisationWith AuthenticationMethodSelection" contained in the response body.<br><br>These methods shall be presented towards the PSU for selection by the TPP. |
| chosenSca Method | Authenticati on object | Conditional | This data element is only contained in the response if the ASPSP has chosen the Embedded SCA Approach, if the PSU is already identified e.g. with the first relevant factor or alternatively an access token, if SCA is required and if the authentication method is implicitly selected. |
| challengeData | Challenge | Conditional | It is contained in addition to the data element "chosenScaMethod" if challenge data is needed for SCA.<br><br>In rare cases this attribute is also used in the context of the "startAuthorisationWith PsuAuthentication" or "startAuthorisactionWithEncryptedPsuAuthenticat ion" link. |
| _links | Links | Mandatory | A list of hyperlinks to be recognised by the API Client. The actual hyperlinks used in the response depend on the dynamical decisions of the ASPSP when processing the request. The potential links for this response message are generically defined |

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| Attribute | Type | Condition | Description |
|---|---|---|---|
| | | | in [oFA-ProtSec] for all Transaction Initiation Response messages. These links will also be contained in the related Open API files.<br><br>Remark: All links can be relative or full links, to be decided by the ASPSP. |
| psuMessage | Max500Text | Optional | Text to be displayed to the PSU |
| apiClientMessages | Array of TPP Message Information | Optional | Messages to the TPP on operational issues. |

## Example

### *Request*

```
POST https://api.testbank.com/openfinance/v2/secured-deferred-payments/sepa-credit-transfers
Content-Type:           application/json
X-Request-ID:           99391c7e-ad88-49ec-a2ad-99ddcb1f7721
PSU-IP-Address:         192.168.8.78
PSU-GEO-Location:       GEO:52.506931;13.144558
PSU-User-Agent:         Mozilla/5.0 (Windows NT 10.0; WOW64; rv:54.0)
Gecko/20100101 Firefox/54.0
Date:                   Sun, 06 Aug 2021 15:02:37 GMT

{
 "paymentIdentfication":
      {"endToEndId": "12345-123456-12345678",
       "instructionId": "my-instruction-1122334"},
  "instructedAmount": {"currency": "EUR", "amount": "19.50"},
  "debtorAccount": {"iban": "DE40100100103307118608"},
  "creditorAccount": {"iban": "DE02100100109307118603"},
  "creditor":
      {"name": "Merchant",
       "additionalPartyInformation":
            {"tradeName": "cool internet merchant"}
      },
  "remittanceInformationUnstructured": [{"Ref Number Merchant, Payment by
delivery"}]"
}
```


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### *Response in case of a redirect with an implicitly created authorisation sub-resource*

```
HTTP/1.x 201 Created
X-Request-ID:           99391c7e-ad88-49ec-a2ad-99ddcb1f7721
ASPSP-SCA-Approach:     REDIRECT
Date:                   Sun, 06 Aug 2017 15:02:42 GMT
Location:               https://www.testbank.com/openfinance/v2/secured-
deferred-payments/3d9a81b3-a47d-4130-8765-a9c0ff861100
Content-Type:           application/json

{
  "transactionStatus": "RCVD",
  "paymentId": "3d9a81b3-a47d-4130-8765-a9c0ff861100",
  "_links": {
        "scaRedirect": {"href": "https://www.testbank.com/asdfasdfasdf"},
        "self": {"href": "/openfinance/v2/secured-deferred-payments/sepa-
credit-transfers/3d9a81b3-a47d-4130-8765-a9c0ff861100"},
        "status": {"href": "/openfinance/v2/secured-deferred-payments/sepa-
credit-transfers/3d9a81b3-a47d-4130-8765-a9c0ff861100/status"},
        "scaStatus": {"href": "/openfinance/v2/secured-deferred-
payments/sepa-credit-transfers/3d9a81b3-a47d-4130-8765-
a9c0ff861100/authorisations/3d9a81b3-a47d-4130-9999-a9c0ff861100"}
  }
}
```

### *Same example in case where an explicit authorisation start is needed*

```
HTTP/1.x 201 Created
X-Request-ID:           99391c7e-ad88-49ec-a2ad-99ddcb1f7721
ASPSP-SCA-Approach:     REDIRECT
Date:                   Sun, 06 Aug 2017 15:02:42 GMT
Location:               https://www.testbank.com/openfinance/v2/secured-
deferred-payments/sepa-credit-transfers/3d9a81b3-a47d-4130-8765-
a9c0ff861100
Content-Type:           application/json

{
  "transactionStatus": "RCVD",
  "paymentId": "3d9a81b3-a47d-4130-8765-a9c0ff861100",
  "_links": {
        "self": {"href": "/openfinance/v2/secured-deferred-payments/sepa-
credit-transfers/3d9a81b3-a47d-4130-8765-a9c0ff861100"},
        "status": {"href": "/openfinance/v2/secured-deferred-payments/sepa-
credit-transfers/3d9a81b3-a47d-4130-8765-a9c0ff861100/status"},
        "startAuthorisation": {"href": "/openfinance/v2/secured-deferred-
payments/sepa-credit-transfers/3d9a81b3-a47d-4130-8765-
a9c0ff861100/authorisations"}
  }
}
```

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### *Response in case of an OAuth2 SCA approach with implicitly creating an authorisation sub-resource*

```
HTTP/1.x 201 Created
X-Request-ID:           99391c7e-ad88-49ec-a2ad-99ddcb1f7721
ASPSP-SCA-Approach:     REDIRECT
Date:                   Sun, 06 Aug 2017 15:02:42 GMT
Location:               https://www.testbank.com/openfinance/v2/secured-
deferred-payments/sepa-credit-transfers/3d9a81b3-a47d-4130-8765-
a9c0ff861100
Content-Type:           application/json

{
  "transactionStatus": "RCVD",
  "paymentId": "3d9a81b3-a47d-4130-8765-a9c0ff861100",
  "_links": {
        "scaOAuth": {"href": "https://www.testbank.com/oauth/.well-
known/oauth-authorization-server"},
        "self": {"href": "/openfinance/v2/secured-deferred-payments/sepa-
credit-transfers/3d9a81b3-a47d-4130-8765-a9c0ff861100"},
        "status": {"href": "/openfinance/v2/secured-deferred-payments/sepa-
credit-transfers/3d9a81b3-a47d-4130-8765-a9c0ff861100/status"},
        "scaStatus": {"href": "/openfinance/v2/secured-deferred-
payments/sepa-credit-transfers/3d9a81b3-a47d-4130-8765-
a9c0ff861100/authorisations/3d9a81b3-a47d-4130-9999-a9c0ff861100"}
  }
}
```

### *Response in case of the decoupled approach with explicit start of authorisation needed (will be done with the update PSU identification function)*

```
HTTP/1.x 201 Created
X-Request-ID:           99391c7e-ad88-49ec-a2ad-99ddcb1f7721
ASPSP-SCA-Approach:     DECOUPLED
Date:                   Sun, 06 Aug 2017 15:03:47 GMT
Location:               https://www.testbank.com/openfinance/v2/secured-
deferred-payments/sepa-credit-transfers/3d9a81b3-a47d-4130-8765-
a9c0ff861100
Content-Type:           application/json

{
  "transactionStatus": "RCVD",
  "paymentId": "3d9a81b3-a47d-4130-8765-a9c0ff861100",
  "_links": {
     "startAuthorisationWithPsuIdentification": {"href":
"/openfinance/v2/secured-deferred-payments/sepa-credit-transfers/3d9a81b3-
a47d-4130-8765-a9c0ff861100/authorisations"},
     "self": {"href": "/openfinance/v2/secured-deferred-payments/sepa-
credit-transfers/3d9a81b3-a47d-4130-8765-a9c0ff861100"}
```


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```
    }
}
```

### *Response in case of the embedded approach with explicit start of authorisation*

```
HTTP/1.x 201 Created
X-Request-ID:           99391c7e-ad88-49ec-a2ad-99ddcb1f7721
ASPSP-SCA-Approach:     EMBEDDED
Date:                   Sun, 06 Aug 2017 15:03:47 GMT
Location:               https://www.testbank.com/openfinance/v2/secured-
deferred-payments/sepa-credit-transfers/3d9a81b3-a47d-4130-8765-
a9c0ff861100
Content-Type:           application/json

{
    "transactionStatus": "RCVD",
    "paymentId": "3d9a81b3-a47d-4130-8765-a9c0ff861100",
    "_links": {
        "startAuthorisationWithPsuAuthentication": {"href":
"/openfinance/v2/secured-deferred-payments/sepa-credit-transfers/3d9a81b3-
a47d-4130-8765-a9c0ff861100/authorisations"},
         "self": {"href": "/openfinance/v2/secured-deferred-payments/sepa-
credit-transfers/3d9a81b3-a47d-4130-8765-a9c0ff861100"}
              }
}
```

## 3.5 Initiation for Deferred Payments

### Call

```
POST /v2/{extended-payment-services}/{payment-
product}/{paymentId}/initiations
```

Creates an initiation for a (partial) deferred payment initiation for the related authorised payment resource at the ASPSP.

### Path Parameters

| Attribute | Type | Description |
|---|---|---|
| extended-payment-service | String | The addressed Extended Payment Initiation Service. The default list is<br>• deferred-payments for XDPIS<br>• secured-deferred-payments for XDFPIS,<br>• multiple-deferred-payments for XMDPIS,<br>• secured-multiple-deferred-payments for XMDFPIS |

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| Attribute | Type | Description |
|---|---|---|
| payment-product | String | The addressed payment product endpoint, e.g. for SEPA Credit Transfers (SCT). The default list of products supported in this standard is:<br><br>• sepa-credit-transfers<br>• micro-sepa-credit-transfers<br>• instant-sepa-credit-transfers<br>• target-2-payments<br>• cross-border-credit-transfers<br>The ASPSP will publish which of the payment products/endpoints will be supported.<br><br>For definitions of basic non-Euro generic products see [oFA PFDom].<br><br>Further products might be published by the ASPSP within its XS2A documentation. |
| paymentId | String | ID of the corresponding payment object as returned by a Payment Authorisation Request |

### Query Parameters

No Query Parameter

### Header Parameter

| Attribute | Type | Condition | Description |
|---|---|---|---|
| Content-Type | String | Mandatory | application/json |
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party.<br><br>This is the unique ID of TPP for the payment initiation regarding PSD2 article 47 and EBA RTS article 29. |
| Authorization | String | Conditional | Bearer Token. Is contained only, if an OAuth2 based authentication was performed in a pre-step or an OAuth2 based SCA was performed in a preceding AIS service in the same session. |
| Consent-ID | String | Optional | 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 |

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| Attribute | Type | Condition | Description |
|---|---|---|---|
| | | | was performed prior to this payment initiation. The access attribute in this case needs to contain the "paymentInitiations" access right for the related account. |
| PSU-IP-Address | String | Mandatory | The forwarded IP Address header field consists of the corresponding HTTP request IP Address field between PSU and TPP.<br><br>If not available, the TPP shall use the IP Address used by the TPP when submitting this request. |
| API-Contract-ID | String | Mandatory | ID of the underlying service contract between API Client and API Server, resulting from API Client onboarding, following [oFA-OR-ADM] |

### Request Body

| Tag | Type | Usage | Description |
|---|---|---|---|
| paymentIdentification | Payment Identification | Optional | If this attribute is provided, then it will be used by the ASPSP in the related credit transfer for payment identification.<br><br>If this attribute is not provided, then the corresponding paymentIdentification as defined in the initial payment resource is used. |
| instructedAmount | Amount | Conditional | Amount requested from the API client to be executed by the ASPSP. Mandatory for XDPIS, XDFPIS, XRPIS and XRFPIS. If not contained in a XMDPIS service, then this is a dedicated closing transaction.<br><br>This amount shall be smaller or equal to the amount still being reserved in the XDPIS/XDFPIS/XMPIS/XMFPIS case (current reservedAmount) |
| remittanceInformationUnstructured | Array of Max140Text | Optional | If this attribute is provided, then it will be used by the ASPSP in the |


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| Tag | Type | Usage | Description |
|---|---|---|---|
| | | | related credit transfer for remittance information.<br><br>If this attribute is not provided, then the corresponding remittance as defined in the initial payment resource is used. |
| remittanceInformationStructured | Array of Remittance | Optional | The supported sub structure will depend on the underlying payment product.<br><br>If this attribute is provided, then it will be used by the ASPSP in the related credit transfer for remittance information.<br><br>If this attribute is not provided, then the corresponding remittance as defined in the initial payment resource is used. |
| closingFlag | Boolean | Mandatory | If true, then the TPP indicates that this is the last initiation on the related payment resource.<br><br>As a consequence, the mechanism for securing the payment (e.g. reservation of funds) is closed in the ASPSP system. |

### Response Code

The HTTP response code equals 201.

### Response Header

| Attribute | Type | Condition | Description |
|---|---|---|---|
| Location | String | Mandatory | Location of the created resource (if created) |
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party. |


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### Response Body

| Attribute | Type | Condition | Description |
|---|---|---|---|
| initiationId | Max70Text | Mandatory | Unique identification of the deferred payment initiation. |
| remainingAuthorised Amount | Amount | Conditional | The amount still available for further following deferred payment initiations.<br><br>Only used in case of multiple deferred payments. |
| transactionStatus | Transaction Status | Mandatory | The status of the addressed deferred payment initiation as defined in Section 3.15. |
| reasonCode | Status Reason Code | {Or - Optional | Additional information on the reason for e.g. rejecting the request |
| reasonProprietary | Max35Text | Or – Optional} | Proprietary additional information on the reason for e.g. rejecting the request. |
| transactionFees | Amount | Optional | Might be used by the ASPSP to transport the total transaction fee applicable to the PSU and relevant for the underlying payments. This field includes the entry of the currencyConversionFees if applicable. |
| currency Conversion Fee | Amount | Optional | Might be used by the ASPSP to transport specific currency conversion fees related to the initiated credit transfer. |
| estimatedTotal Amount | Amount | Optional | The amount which is estimated to be debted from the debtor account.<br><br>Note: This amount includes fees. |
| estimated Interbank Settlement Amount | Amount | Optional | The estimated amount to be transferred to the payee. |
| transactionFee Indicator | Boolean | Optional | 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.<br><br>If equals false, the transaction will not involve additional specific transaction costs to the PSU unless the fee amount is given specifically in |

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| Attribute | Type | Condition | Description |
|---|---|---|---|
| | | | the data elements transactionFees and/or currencyConversionFees.<br><br>If this data element is not used, there is no information about transaction fees unless the fee amount is given explicitly in the data element transactionFees and/or currencyConversionFees. |

**Note:** Rejection rules for the deferred payment initiations are as follows:

Dedicated reasonCodes shall be used by the ASPSP in case of rejecting the transaction due to the following reasons (i.e. transactionStatus="RJCT"):

| Status Reason Code | Description | Usage |
|---|---|---|
| AM02 | NotAllowedAmount | instructedAmount is greater than the original instructed amount, or the remainingAuthorisedAmount |
| DT05 | InvalidCutOffDate | The expiryDate of the addressed reservation of funds is a date in the past |
| CN01 | AuthorisationCancelled | The authorization is cancelled. |
| AM04 | InsufficientFunds | The related funds are not available on the account. This code is only applicable when using the not-secured service variants. |
| AC05 | ClosedDebtorAccountNumber | Debtor account number closed |
| AC06 | BlockedAccount | Account specified is blocked, prohibiting posting of transactions against it. |

## Example

### *Request*

```
POST https://api.testbank.com/openfinance/v2/secured-deferred-
payments/sepa-credit-transfers/3d9a81b3-a47d-4130-8765-
a9c0ff861100/initiations

Content-Type            application/json
X-Request-ID            99391c7e-ad88-49ec-a2ad-99ddcb1f7769
```


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```
Date                    Sun, 18 Aug 2017 17:05:37 GMT
"paymentIdentfication":
      {"endToEndId": "12345-123456-12345678-a",
       "instructionId": "my-instruction-1122335"},
  "instructedAmount": {"currency": "EUR", "amount": "9.30"},
  "remittanceInformationUnstructured": [{"Ref Number Merchant, article 5
will be delivered later"}]
```

***Response***

```
HTTP/1.x 202
X-Request-ID:           99391c7e-ad88-49ec-a2ad-99ddcb1f7769
Date:                   Sun, 18 Aug 2017 17:05:38 GMT
{
  "initiationId": "99391c7e-ad88-49ec-a2ad-99ddcb1ggggg",
  "transactionStatus": "ACSP"
}
```

### 3.6 Recurring Payments Authorisation Request

The recurring payments initiation function will be covered in this specification as a recurring payment with maximum authorised amount for a given frequency and period. The TPP can submit a recurring payment authorisation request where the starting date, frequency and conditionally an end date is provided as well as the maximum periodic amount. The further processing of initiation is depending on the chosen service:

For the recurring and secured recurring payments services the following applies:

Once authorised by the PSU, the payment then will be executed by the ASPSP at the agreed execution dates, as requested by the TPP via dedicated initiation requests per requested period, where the actual transaction amount in every period shall be less or equal to the maximum authorised amount. If the underlying endpoint is an endpoint for secured payments, then a positive response to the initiation will provide a "secured" execution of the related payment, where the securing measure can be identified via the securedBy attribute in the ASPSP respsonse or by related commercial contracts.

For the multiple recurring payments services, the following applies:

Once authorised by the PSU, the TPP can submit several initiations per period (called "execution period"), where the sum of all initiation transaction amounts per execution period are less or equal to the agreed maximum agreed periodic amount. The ASPSP will technically process each initiation in its own right. Further details on functional requirements on initiations are defined in Section 3.8.

**Note**: A multiple recurring payment service with reservation of funds features is not foreseen up to now.

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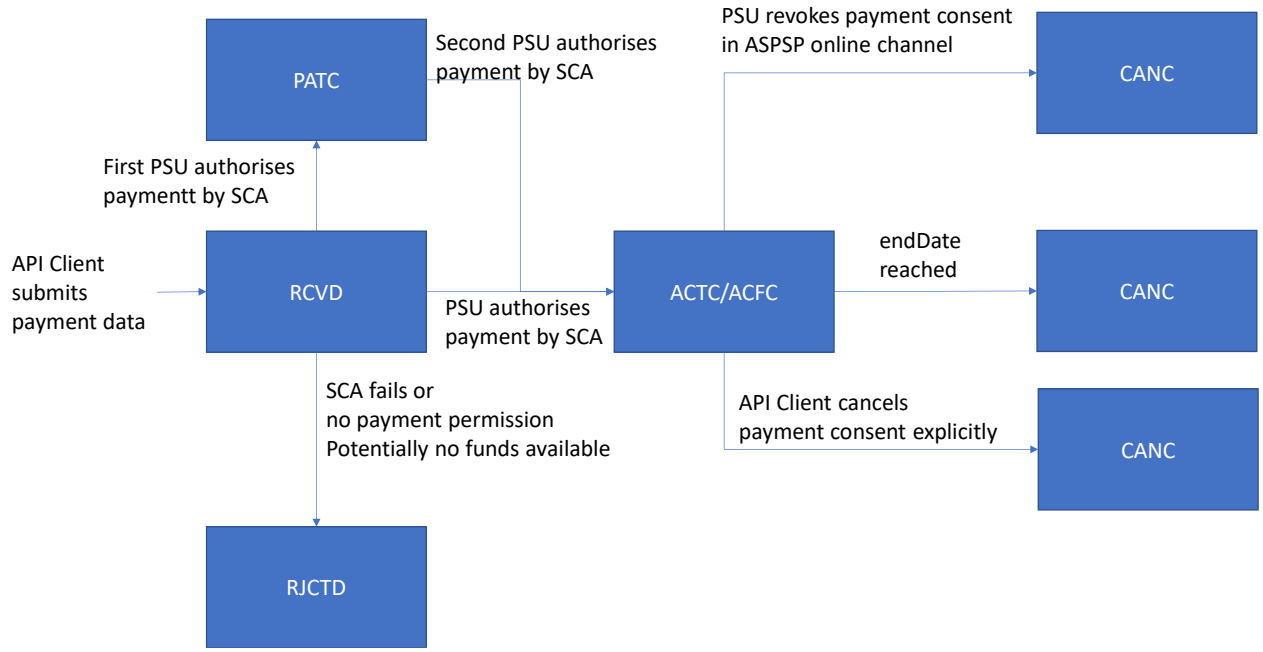
### Transaction Status

The following diagram shows the overall status transition diagram for a recurring payment resource:




### Call

```
POST /v2/{extended-payment-services}/{payment-product}
```

Creates an extended payment resource for recurring payments which allow one initiation per period (with flexible amount less equal to the authorised amount) or multiple initiations per period at the ASPSP.

### Path Parameters

| Attribute | Type | Description |
|---|---|---|
| extended-payment-service | String | The addressed Extended Payment Initiation Service. The default list is<br>• multiple-recurring-payments for XMRPIS,<br>• recurring-payments for XRPIS and<br>• secured-recurring-payments for XRFPIS. |
| payment-product | String | The addressed payment product endpoint, e.g. for SEPA Credit Transfers (SCT). The default list of products supported in this standard is:<br>• sepa-credit-transfers |

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| Attribute | Type | Description |
|---|---|---|
| | | • instant-sepa-credit-transfers<br>• target-2-payments<br>• cross-border-credit-transfers<br>The ASPSP will publish which of the payment products/endpoints will be supported.<br><br>For definitions of basic non-Euro generic products see [oFA PFDom].<br><br>Further products might be published by the ASPSP within its XS2A documentation. |

### Query Parameters

The same query parameter definition as in Section 3.4 applies.

### Request Header

For this initiation the same headers as in Section 3.4 are used.

### Request Body

First, the payment data to be transported in the request body for some definitions related to the abovementioned standard products are defined in [oFA PFDom]. Further definitions might be given community or ASPSP specific.

In addition, the following tags are used:

| Tag | Type | Usage | Description |
|---|---|---|---|
| startDate | ISODate | Mandatory | The first applicable day of execution starting from this date is the first execution request date. |
| endDate | ISODate | Optional | The last applicable day of execution<br><br>If not given, it is an infinite recurring payment. |
| frequency | Frequency Code | Mandatory | The frequency of the recurring payment. |
| dayOfExecution | Max2Text | Conditional | "31" is ultimo.<br><br>The format is following the regular expression \d{1,2}.<br>Example: The first day is addressed by "1". |


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| Tag | Type | Usage | Description |
|---|---|---|---|
| | | | The date is referring to the time zone of the ASPSP.<br><br>This attribute may not be used for Multiple Recurring Payment Requests, since no planned execution dates are used. |

**NOTE:** The execution date for a recurring payment is fixed by the first submission and the related execution requirements. For the permitted frequencies the following applies:

- Daily: No additional requirements.
- Weekly: The startDate will fix the start of potential initiations after a successful authorisation. dayOfExecution is defining the start of each authorisation period after the startDate: "01" indicating Monday, "02" Tuesday etc. The ASPSP can restrict the usage to the value "01". If an authorisation is processed on Tuesday with the current date as startDate and the dayOfExecution equals "01", then the first execution period is valid till the following Sunday and Monday the next execution period with the authorised total amount will apply.
- EveryTwoWeeks: The startDate will determine the regular execution day. dayOfExecution is ignored for the frequency.
- Monthly: The dayOfExecution determines the regular execution day, starting with the first regular execution day after the startDate (if provided).
- EveryTwoMonths: The dayOfExecution determines the regular execution day in every execution month. The startDate determines the first execution month.
- Quarterly: The startDate determines the first regular execution day.
- SemiAnnual: The startDate determines the first regular execution day.
- Annual: The startDate determines the first regular execution day.

**NOTE:** The start and end dates of each execution period for a multiple recurring payment is fixed by the first submission and the related execution requirements. For the permitted frequencies the following applies.

**Note:** The ASPSP may not support the attribute dayOfExecution. In that case, all execution periods are rolling periods as defined by the startDate.

- Daily: No additional requirements.
- Weekly: The startDate will fix the start of potential initiations after a successful authorisation. dayOfExecution is defining the begin of each execution period: "01" indicating Monday, "02" Tuesday etc. The ASPSP can restrict the usage to the value "01". If an authorisation is processed on Tuesday with the current date as startDate and the dayOfExecution equals "01", then the first execution period is valid till the following Sunday and on Monday the next execution period with the authorised total amount will apply.
- EveryTwoWeeks: Not supported in the first version of the specifications.
- Monthly: The startDate will fix the start of potential initiations after a successful authorisation. dayOfExecution is defining the begin of each execution period: The

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ASPSP can restrict the usage to the value "01". If an authorisation is processed on the 5th of a month with the current date as startDate and the dayOfExecution equals "01", then the first execution period is valid till the end of the current month and on the first day of the following month, the next execution period with the authorised total amount will apply.

- EveryTwoMonths: Not supported for now.
- Quarterly: Not supported for now..
- SemiAnnual: Not supported for now..
- Annual: Not supported for now.

**NOTE:** The attribute executionRule is not supported, since the payment will be executed **always** the first working day **after** the execution day, if the latter is a bank holiday and if the chosen product is not processed on bank holidays.

**NOTE**: The attribute monthsOfExecution is not supported, since the API Client has the possibility to not initiate an execution of a recurring payment at a chosen month.

**NOTE:** This standard does not mandate the ASPSP to support all listed execution periods. The supported execution periods will be documented by the ASPSP.

**Response**

The formats of the Extended Payment Authorisation Response resp. the subsequent transaction authorisation process for recurring payments equals the corresponding Extended Payment Authorisation Response resp. the subsequent transaction authorisation process for a single payment containing JSON based payment data. Especially the attribute maximumNumberOfInitiations might be supported by the ASPSP indicating the maximum number of (successful) initiations permitted per period for multiple recurring payments.

**Remark**: Please note that for the starting authorisation of recurring payments, the ASPSP will always mandate an SCA with dynamic linking, exemptions are not permitted.

**Example Recurring Payment**

***Request***

```
POST https://www.testbank.com/openFinance/v2/recurring-payments/sepa-
credit-transfers
Content-Type:           application/json
X-Request-ID:           99391c7e-ad88-49ec-a2ad-99ddcb1f7721
PSU-IP-Address:         192.168.8.78
PSU-User-Agent:         Mozilla/5.0 (Windows NT 10.0; WOW64; rv:54.0)
Gecko/20100101 Firefox/54.0
Date:                   Sun, 06 Aug 2017 15:02:37 GMT
{
 "instructedAmount": {"currency": "EUR", "amount": "123"},
 "debtorAccount": {"iban": "DE40100100103307118608"},
 "creditorName": "Merchant123",
 "creditorAccount": {"iban": "DE23100120020123456789"},
 "remittanceInformationUnstructured": [{"Ref Number Abonnement"}],
```


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```
 "startDate": "2017-09-01",
 "frequency": "Monthly",
 "dayOfExecution": "01"
}
```

### Example Multiple Recurring Payment

#### *Request*

```
POST https://www.testbank.com/openFinance/v2/recurring-payments/sepa-
credit-transfers
Content-Type:           application/json
X-Request-ID:           99391c7e-ad88-49ec-a2ad-99ddcb1f7721
PSU-IP-Address:         192.168.8.78
PSU-User-Agent:         Mozilla/5.0 (Windows NT 10.0; WOW64; rv:54.0)
Gecko/20100101 Firefox/54.0
Date:                   Sun, 06 Aug 2017 15:02:37 GMT
{
 "instructedAmount": {"currency": "EUR", "amount": "123"},
 "debtorAccount": {"iban": "DE40100100103307118608"},
 "creditorName": "Merchant123",
 "creditorAccount": {"iban": "DE23100120020123456789"},
 "remittanceInformationUnstructured": [{"Ref Number Abonnement"}],
 "startDate": "2017-09-01",
 "frequency": "Monthly"
}
```

## 3.7 Initiation for Recurring Payments

### Call

```
POST /v2/{extended-payment-services}/{payment-
product}/{paymentId}/initiations
```

Creates an initiation for a recurring payment initiation for the related authorised payment resource at the ASPSP.

### Path Parameters

| Attribute | Type | Description |
|---|---|---|
| extended-payment-service | String | The addressed Extended Payment Initiation Service. The default list is<br>• recurring-payments for XRPIS and<br>• secured-recurring-payments for XRFPIS. |


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| Attribute | Type | Description |
|---|---|---|
| payment-product | String | The addressed payment product endpoint, e.g. for SEPA Credit Transfers (SCT). The default list of products supported in this standard is:<br>• sepa-credit-transfers<br>• instant-sepa-credit-transfers<br>• target-2-payments<br>• cross-border-credit-transfers<br>The ASPSP will publish which of the payment products/endpoints will be supported.<br>For definitions of basic non-Euro generic products see [oFA PFDom].<br>Further products might be published by the ASPSP within its XS2A documentation. |
| paymentId | String | ID of the corresponding payment object as returned by a Payment Authorisation Request |

### Query Parameters

No Query Parameter

### Request Body

| Tag | Type | Usage | Description |
|---|---|---|---|
| paymentIdentification | Payment Identification | Optional | If this attribute is provided, then it will be used by the ASPSP in the related credit transfer for payment identification.<br>If this attribute is not provided, then the corresponding paymentIdentification as defined in the initial payment resource is used. |
| instructedAmount | Amount | Mandatory | Amount requested from the API client to be executed by the ASPSP.<br>This amount shall be smaller or equal to the amount authorised for the periodical use |

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| Tag | Type | Usage | Description |
|---|---|---|---|
| remittanceInformationUnstructured | Array of Max140Text | Optional | If this attribute is provided, then it will be used by the ASPSP in the related credit transfer for remittance information.<br><br>If this attribute is not provided, then the corresponding remittance as defined in the initial payment resource is used. |
| remittanceInformationStructured | Array of Remittance | Optional | The supported sub structure will depend on the underlying payment product.<br><br>If this attribute is provided, then it will be used by the ASPSP in the related credit transfer for remittance information.<br><br>If this attribute is not provided, then the corresponding remittance as defined in the initial payment resource is used. |
| requestedExecutionDate | ISO Date | Conditional | Shall be consistent with the planned regular execution day as defined in the initial payment resource. |
| requestedExecutionDateTime | ISODateTime | [Optional] | Shall be consistent with the planned regular execution day as defined in the initial payment resource. Only to be used with instant payment products for execution at that timestamp.<br><br>Request will be rejected if this attribute is not supported by the ASPSP. |

**NOTE:** The initiation for the payment shall be submitted

- Till 23:59:59 of the day before for standard credit transfers at the latest.
- Till the day of execution for instant payments at the latest.

If the related initiation is late, it shall be rejected with a dedicated error code.

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### Response Code

The HTTP response code equals 201.

### Response Header

| Attribute | Type | Condition | Description |
|---|---|---|---|
| Location | String | Mandatory | Location of the created resource (if created) |
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party. |

### Response Body

| Attribute | Type | Condition | Description |
|---|---|---|---|
| initiationId | Max70Text | Mandatory | Unique identification of the recurring payment initiation. |
| transactionStatus | Transaction Status | Mandatory | The status of the addressed deferred payment initiation as defined in Section 3.15. |
| reasonCode | Status Reason Code | {Or - Optional | Additional information on the reason for e.g. rejecting the request |
| reasonProprietary | Max35Text | Or – Optional} | Proprietary additional information on the reason for e.g. rejecting the request. |
| requestedExecutionDate | ISO Date | Mandatory | Requested execution date for this initiation.<br><br>Note: This element confirms the execution period. |

**Note:** Rejection rules for the recurring payment initiations are as follows:

Dedicated transaction status reasonCodes shall be used by the ASPSP in case of rejecting the transaction due to the following reasons:

| Status Reason Code | Description | Usage |
|---|---|---|
| AM02 | NotAllowedAmount | instructedAmount is greater than the maximum periodic instructedAmount as defined by the recurring payment initiation resource |

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| Status Reason Code | Description | Usage |
|---|---|---|
| DT05 | InvalidCutOffDate | the requestedExecutionDate is a date in the past |
| DT01 | InvalidDate | the requestedExecutionDate is too far in the future (e.g. more than 8 days) |
| CN01 | AuthorisationCancelled | The authorization is cancelled. |
| AM04 | InsufficientFunds | The related funds are not available on the account. |
| AC05 | ClosedDebtorAccountNumber | Debtor account number closed |
| AC06 | BlockedAccount | Account specified is blocked, prohibiting posting of transactions against it. |
| UPAY | UnduePayment | Payment is not justified.<br><br>**Remark:** To be used, if a second payment initiation is submitted in one period after the first initiation has been processed successfully. |

## Example

### *Request*

```
POST https://www.testbank.com/openFinance/v2/recurring-payments/sepa-
credit-transfers/3d9a81b3-a47d-4130-8765-a9c0ff861100/initiations
Content-Type:           application/json
X-Request-ID:           99391c7e-ad88-49ec-a2ad-99ddcb1f7723
Date:                   Sun, 27 Feb 2018 18:02:37 GMT
{
 "instructedAmount": {"currency": "EUR", "amount": "104"},
 "remittanceInformationUnstructured": "Ref Number Abonnement, Reduced Price
for March 2018",
 "requestedExecutionDate": "2018-02-01",
 "closingFlag": false
 }
```


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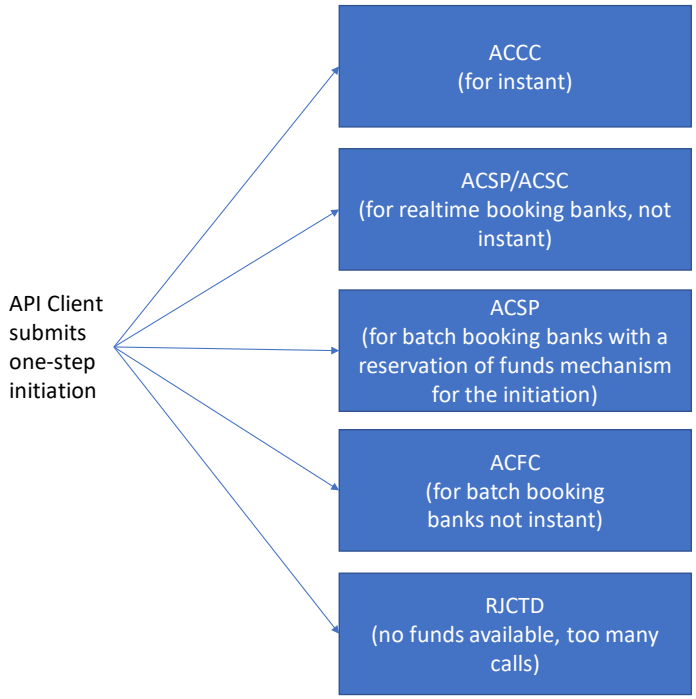
## 3.8 Initiation for Multiple Recurring Payments

This specification supports a one-step initiation process which is just directly processed and a two-step initiation process with additional confirmation request after a funds check.

### Transaction status for one-step initiation process

The following diagram shows the overall status transition diagram for an initiation resource without the request for an additional confirmation request:





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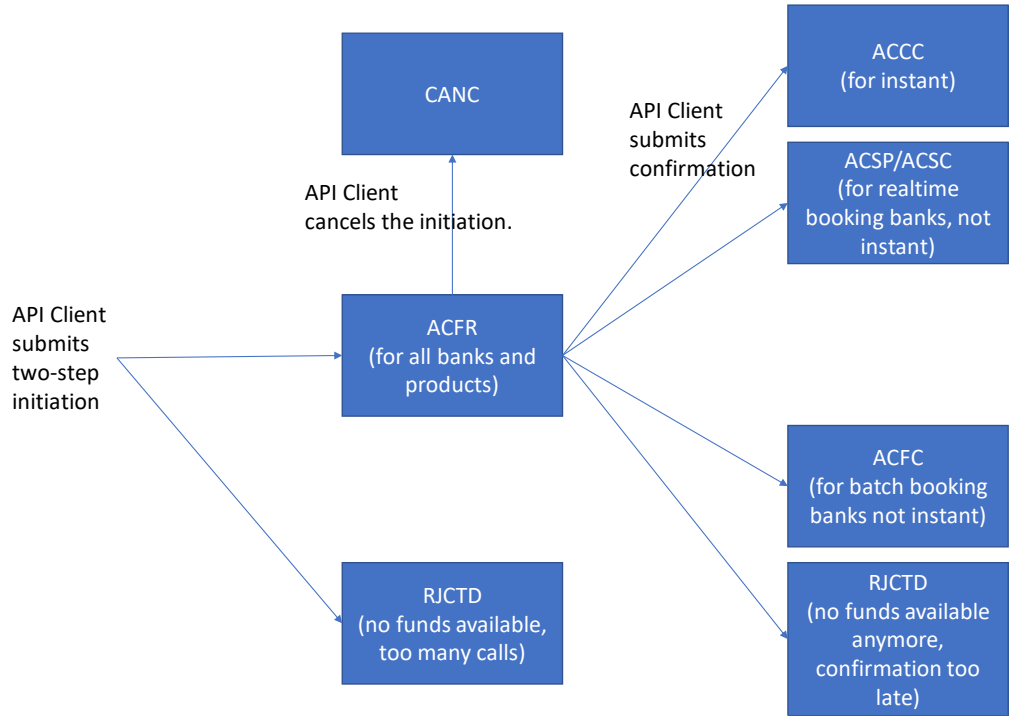
### Transaction status for two-step initiation process

The following diagram shows the overall status transition diagram for an initiation resource when supporting the request for an additional confirmation request:




**NOTE:** The status code ACFR – Accepted, Funds Checked, Confirmation Required, is not yet supported by ISO20022. Berlin Group will raise a related CR.

**NOTE:** The confirmation step is expected to be issued shortly after the first step, supporting check out routines in eCommerce. In case also other use cases with a longer timeframe between first and second step apply, this status concept could be extended to a funds reservation in step 1 in future.

### Call

```
POST /v2/{extended-payment-services}/{payment-
product}/{paymentId}/initiations
```

Creates an initiation resource for a partial payment initiation for the related authorised payment resource at the ASPSP. The initiation might be either then be booked afterwards by the ASPSP or need an explicit confirmation by the API Client, depending on parameters defined below.

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### Path Parameters

| Attribute | Type | Description |
|---|---|---|
| extended-payment-service | String | The addressed Extended Payment Initiation Service. The default list is<br>• multiple-recurring-payments for XMRPIS |
| payment-product | String | The addressed payment product endpoint in the related authorisation process. |
| paymentId | String | ID of the corresponding payment object as returned by a Payment Authorisation Request |

### Query Parameters

No Query Parameter

### Header Parameters

| Attribute | Type | Condition | Description |
|---|---|---|---|
| Client-Explicit-Confirmation-Requested | Boolean | Optional | If true, and if an explicit confirmation is supported by the ASPSP, then the related initiation will only be executed after an additional confirmation request, see Section 3.9<br>If true, and if an explicit confirmation is not supported by the ASPSP, then the related request will be rejected.<br>If false or if an explicit confirmation is not supported by the ASPSP or if not used by the API Client, then the related initiation needs no further action on the API to be executed. |
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party.<br><br>This is the unique ID of TPP for the payment initiation regarding PSD2 article 47 and EBA RTS article 29. |

### Request Body

| Tag | Type | Usage | Description |
|---|---|---|---|
| paymentIdentification | Payment Identification | Optional | If this attribute is provided, then it will be used by the ASPSP in the |


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| Tag | Type | Usage | Description |
|---|---|---|---|
| | | | related credit transfer for payment identification.<br><br>If this attribute is not provided, then the corresponding paymentIdentification as defined in the initial payment resource is used. |
| instructedAmount | Amount | Mandatory | Amount requested from the API client to be executed by the ASPSP.<br><br>This amount together with all other amounts initiated without rejection during the current initiation shall be smaller or equal to the amount authorised for the periodical use. |
| remittanceInformationUnstructured | Array of Max140Text | {Or Optional | If this attribute is provided, then it will be used by the ASPSP in the related credit transfer for remittance information.<br><br>If this attribute is not provided, then the corresponding remittance as defined in the initial payment resource is used. |
| remittanceInformationStructured | Array of Remittance | Or Optional} | The supported sub structure will depend on the underlying payment product.<br><br>If this attribute is provided, then it will be used by the ASPSP in the related credit transfer for remittance information.<br><br>If this attribute is not provided, then the corresponding remittance as defined in the initial payment resource is used. |

**NOTE:** requestedExecutionDate or requestedExecutionDateTime are not supported for this service in a first step due to the present complexity.

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### Response Code

The HTTP response code equals 201.

### Response Header

| Attribute | Type | Condition | Description |
|---|---|---|---|
| Location | String | Mandatory | Location of the created resource (if created) |
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party. |
| ASPSP-Explicit-Confirmation-Supported | Boolean | Conditional | Shall be used by the ASPSP if the Client-Explicit-Confirmation-Requested flag has been used by the TPP.<br><br>true if explicit confirmation is supported by the ASPSP.<br><br>false if explicit confirmation is not supported by the ASPSP. |

### Response Body

| Attribute | Type | Condition | Description |
|---|---|---|---|
| initiationId | Max70Text | Mandatory | Unique identification of the recurring payment initiation. |
| transactionStatus | Transaction Status | Mandatory | The status of the addressed deferred payment initiation as defined in Section 3.15. |
| reasonCode | Status Reason Code | {Or - Optional | Additional information on the reason for e.g. rejecting the request |
| reasonProprietary | Max35Text | Or – Optional} | Proprietary additional information on the reason for e.g. rejecting the request. |
| confirmation ExpiryDateTime | ISODateTime | Conditional | The ASPSP shall provide this attribute, if the explicit confirmation is supported by the ASPSP and if the Client-Explicit-Confirmation-Requested equals true.<br><br>This attribute implies that an explicit confirmation by the API Client is still outstanding. |

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| Attribute | Type | Condition | Description |
|---|---|---|---|
| _links | link | Conditional | A list of hyperlinks to be recognised by the API Client. The actual hyperlinks used in the response depend on the dynamical decisions of the ASPSP when processing the request.<br><br>**Remark**: All links can be relative or full links, to be decided by the ASPSP.<br><br>Type of links admitted in this response, (further links might be added for ASPSP defined extensions):<br><br>"confirmInitiation": In case of a confirmation request is required to execute the payment, a link where this confirmation has to be posted is added. |

**Note:** Rejection rules for the multiple recurring payment initiations are as follows:

Dedicated transaction status reasonCodes shall be used by the ASPSP in case of rejecting the transaction due to the following reasons:

| Status Reason Code | Description | Usage |
|---|---|---|
| AM02 | NotAllowedAmount | instructedAmount together with all initiated transaction amounts in the current period is greater than the maximum periodic instructedAmount as defined by the recurring payment initiation resource |
| CN01 | AuthorisationCancelled | The authorization is cancelled. |
| AM04 | InsufficientFunds | The related funds are not available on the account. |
| AC05 | ClosedDebtorAccountNumber | Debtor account number closed |
| AC06 | BlockedAccount | Account specified is blocked, prohibiting posting of transactions against it. |
| UPAY | UnduePayment | Payment is not justified. |

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### Example

#### *Request*

```
POST https://www.testbank.com/openFinance/v2/multiple-recurring-
payments/sepa-credit-transfers/3d9a81b3-a47d-4130-8765-
a9c0ff861100/initiations
Content-Type:           application/json
X-Request-ID:           99391c7e-ad88-49ec-a2ad-99ddcb1f7723
Date:                   Sun, 27 Feb 2018 18:02:37 GMT
{
 "instructedAmount": {"currency": "EUR", "amount": "104"},
 "remittanceInformationUnstructured": "Ref Number Abonnement, Video
Videoname streaming on 27 Feb 2018"
 }
```

## 3.9 Confirmation for Initiations (for Multiple Recurring Payments)

### Call

```
PUT /v2/{extended-payment-services}/{payment-
product}/{paymentId}/initiations/{initiationId}/confirmation
```

The API Client confirms with this request the actual execution of the addressed initiation.

### Path Parameters

| Attribute | Type | Description |
|---|---|---|
| extended-payment-service | String | The addressed Extended Payment Initiation Service. The default list is<br>• Multiple-recurring-payments for XMRPIS |
| payment-product | String | The addressed payment product endpoint in the related authorisation process. |
| paymentId | String | ID of the corresponding payment object as returned by a Payment Authorisation Request |
| initiationId | String | ID of the corresponding initiation object as returned by a Initiation for Multiple Recurring Payments Request. |

### Query Parameters

No Query Parameter

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### Header Parameters

| Attribute | Type | Condition | Description |
|---|---|---|---|
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party. |

### Request Body

No Request Body

### Response Code

The HTTP response code equals 200.

### Response Header

| Attribute | Type | Condition | Description |
|---|---|---|---|
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party. |

### Response Body

| Attribute | Type | Condition | Description |
|---|---|---|---|
| transactionStatus | Transaction Status | Mandatory | The status of the addressed deferred payment initiation as defined in Section 3.15. |
| reasonCode | Status Reason Code | {Or - Optional | Additional information on the reason for e.g. rejecting the request |
| reasonProprietary | Max35Text | Or – Optional} | Proprietary additional information on the reason for e.g. rejecting the request. |

Dedicated transaction status reasonCodes shall be used by the ASPSP in case of rejecting the transaction due to the following reasons:

| Status Reason Code | Description | Usage |
|---|---|---|
| CN01 | AuthorisationCancelled | The authorization is cancelled. |

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| Status Reason Code | Description | Usage |
|---|---|---|
| AM04 | InsufficientFunds | The related funds are not available on the account. |
| AC05 | ClosedDebtorAccountNumber | Debtor account number closed |
| AC06 | BlockedAccount | Account specified is blocked, prohibiting posting of transactions against it. |

## 3.10 Cancellation for Initiations (for Multiple Recurring Payments)

### Call

```
DELETE /v2/{extended-payment-services}/{payment-
product}/{paymentId}/initiations/{initiationId}
```

The API Client asks for the cancellation of the addressed initiation as long as it is not confirmed yet.

### Path Parameters

| Attribute | Type | Description |
|---|---|---|
| extended-payment-service | String | The addressed Extended Payment Initiation Service. The default list is<br>• Multiple-recurring-payments for XMRPIS |
| payment-product | String | The addressed payment product endpoint in the related authorisation process. |
| paymentId | String | ID of the corresponding payment object as returned by a Payment Authorisation Request |
| initiationId | String | ID of the corresponding initiation object as returned by an Initiation for Multiple Recurring Payments Request. |

### Query Parameters

No Query Parameter

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### Header Parameters

| Attribute | Type | Condition | Description |
|---|---|---|---|
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party. |

### Request Body

No Request Body

### Response Code

The HTTP response code equals 200.

### Response Header

| Attribute | Type | Condition | Description |
|---|---|---|---|
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party. |

### Response Body

No Response Body

## 3.11 Get Transaction Status Request

### Call

`GET /v2/{extended-payment-service}/{payment-product}/{paymentId}/status`

Can check the status of a payment authorisation for deferred or recurring payments, resp. payment initiation in the case of secured-payments.

### Path Parameter

| Attribute | Type | Description |
|---|---|---|
| extended-payment-service | String | The addressed Extended Payment Initiation Service. The default list is<br>• secured-payments XFPIS,<br>• deferred-payments for XDPIS,<br>• secured-deferred-payments for XDFPIS, |


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| Attribute | Type | Description |
|---|---|---|
| | | • multiple-deferred-payments for XMDPIS,<br>• secured-multiple-deferred-payments for XMDFPIS<br>• recurring-payments for XRPIS<br>• secured-recurring-payments for XRFPIS and<br>• multiple-recurring-payments for XMRPIS |
| payment-product | String | The payment product, under which the payment under paymentId has been initiated. |
| paymentId | String | Resource Identification of the related payment. |

**Request Header**

| Attribute | Type | Condition | Description |
|---|---|---|---|
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party. |
| Authorization | String | Conditional | Is contained only, if an OAuth2 based authentication was performed in a pre-step or an OAuth2 based SCA was performed in the current PIS transaction or in a preceding AIS service in the same session, if no such OAuth2 SCA approach was chosen in the current PIS transaction. |

**Query Parameters**

No specific query parameters defined.

**Request Body**

No request body.

**Response Code**

The HTTP response code equals 200.

**Response Header**

| Attribute | Type | Condition | Description |
|---|---|---|---|
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party. |


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### Response Body

| Attribute | Type | Condition | Description |
|---|---|---|---|
| transactionStatus | Transaction Status | Mandatory | Status after successful authorisation is for deferred payments the following:<br>• ACFC in case of a funds authorisation<br>• ACSP in case of a funds reservation<br>Status after successful authorisation is for recurring payments the following<br>• ACTC<br>**Remark:** If the PSU does not complete a required SCA within the required timeframe the payment resource's status must be set to "RJCT". Particularly, if a multi-level-SCA is required and the number of successful SCAs during the required timeframe is insufficient, the status must also be set to "RJCT". |
| reasonCode | Status Reason Code | {Or - Optional | Additional information on the reason for e.g. rejecting the request<br>The following codes are used especially for future dated or recurring payments:<br>"CN01": AuthorisationCancelled in case of a PSU has cancelled the related payment towards the PSU.<br>"TKSP" TokenSusptended in case of an ASPSP has cancelled the order after authorisation for fraud or other reasons. |
| reasonProprietary | Max35Text | Or – Optional} | Proprietary additional information on the reason for e.g. rejecting the request.<br>**Remark:** If an ISO Code is available it should be used instead of Proprietary Reasons. Further restrictions could be defined by API Access Scheme. |
| remainingAuthorisedAmount | Amount | Conditional | After successful authorisation and only in case of multiple deferred payments or multiple recurring payments.<br>This attribute is showing the maximum amount which can still be initiated on this resource by multiple deferred payments initiations or during the current execution period by multiple recurring payment initiations. |
| psuMessage | Max500Text | Optional | |

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| Attribute | Type | Condition | Description |
|---|---|---|---|
| _links | Links | Optional | Should refer to next steps if the problem can be resolved via the interface e.g. for re-submission of credentials. |
| apiClientMessages | Array of API Client Message Information | Optional | Messages to the API Client on operational issues. |

### Example

#### *Request*

```
GET https://api.testbank.com/openfinance/v2/secured-deferred-payments/3d9a81b3-a47d-4130-8765-a9c0ff861100/status
Accept:                 application/json
X-Request-ID:           99391c7e-ad88-49ec-a2ad-99ddcb1f7721
Date:                   Sun, 06 Aug 2017 15:04:07 GMT
```

#### *Response*

```
HTTP/1.x 200 Ok
X-Request-ID:           99391c7e-ad88-49ec-a2ad-99ddcb1f7721
Date:                   Sun, 06 Aug 2017 15:04:08 GMT
Content-Type:           application/json

{
  "transactionStatus": "ACCP"
}
```

## 3.12 Get Initiation Status Request

### Call

```
GET /v2/{extended-payment-service}/{payment-product}/{paymentId}/initiations/{initiationId}/status
```

Can check the status of a payment initiation.


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### Path Parameter

| Attribute | Type | Description |
|---|---|---|
| extended-payment-service | String | The addressed Extended Payment Initiation Service. The default list is<br>• deferred-payments for XDPIS<br>• secured-deferred-payments for XDFPIS,<br>• multiple-deferred-payments for XMDPIS,<br>• secured-multiple-deferred-payments for XMDFPIS<br>• recurring-payments for XRPIS<br>• secured-recurring-payments for XRFPIS and<br>• multiple-recurring-payments for XMRPIS. |
| payment-product | String | The payment product, under which the payment under paymentId has been initiated. |
| paymentId | String | Resource Identification of the related payment. |
| initiationId | String | Resource identification of the related initiation of the related payment. |

### Request Header

| Attribute | Type | Condition | Description |
|---|---|---|---|
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party. |
| Authorization | String | Conditional | Is contained only, if an OAuth2 based authentication was performed in a pre-step or an OAuth2 based SCA was performed in the current PIS transaction or in a preceding AIS service in the same session, if no such OAuth2 SCA approach was chosen in the current PIS transaction. |

### Query Parameters

No specific query parameters defined.

### Request Body

No request body.

### Response Code

The HTTP response code equals 200.

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### Response Header

| Attribute | Type | Condition | Description |
|---|---|---|---|
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party. |

### Response Body

| Attribute | Type | Condition | Description |
|---|---|---|---|
| transactionStatus | Transaction Status | Mandatory | Status after successful authorisation is for initiation for deferred payments the following:<br>• ACFC (in case of a non-secured initiation),<br>• ACSP,<br>• ACCC,<br>• ACSC.<br><br>Status after successful authorisation is for the initiation for recurring payments the following<br>• ACFC (in case of non-secured payments)<br>• ACSP (in case of secured payments)<br>• RJCT (if no funds available)<br><br>Final status for the initiation after successful authorisation for multiple recurring payments the following<br>• ACFC (in case of funds check positive)<br>• ACSP (indicating that processing of funds has been started, may also indicate a reservation of funds)<br>• RJCT (if no funds available or for other reasons of rejection) |
| reasonCode | Status Reason Code | {Or - Optional | Additional information on the reason for e.g. rejecting the request |
| reasonProprietary | Max35Text | Or – Optional} | Proprietary additional information on the reason for e.g. rejecting the request. |
| remainingAuthorisedAmount | Amount | Conditional | After successful authorisation and only in case of multiple deferred payments.<br>This attribute is showing the maximum amount which can still be initiated on this |


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| Attribute | Type | Condition | Description |
|---|---|---|---|
| | | | resource by multiple deferred payments initiations. |
| psuMessage | Max500Text | Optional | |
| _links | Links | Optional | Should refer to next steps if the problem can be resolved via the interface |
| apiClientMessages | Array of API Client Message Information | Optional | Messages to the API Client on operational issues. |

## Example

### *Request*

```
GET https://api.testbank.com/openfinance/v2/secured-deferred-payments/3d9a81b3-a47d-4130-8765-a9c0ff861100/inititations/99391c7e-ad88-49ec-a2ad-99ddcb1ggggg
Accept:                 application/json
X-Request-ID:           99391c7e-ad88-49ec-a2ad-99ddcb1f7721
Date:                   Sun, 06 Aug 2017 15:04:07 GMT
```

### *Response*

```
HTTP/1.x 200 Ok
X-Request-ID:           99391c7e-ad88-49ec-a2ad-99ddcb1f7721
Date:                   Sun, 06 Aug 2017 15:04:08 GMT
Content-Type:           application/json

{
  "transactionStatus": "ACFC"
}
```


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## 3.13 Get Payment Request

### Call

`GET /v2/{extended-payment-service}/{payment-product}/{paymentId}`

Returns the content of a payment object.

### Path Parameters

| Attribute | Type | Description |
|---|---|---|
| extended-payment-service | String | The addressed Extended Payment Initiation Service. The default list is<br>• secured-payments for XFPIS<br>• deferred-payments for XDPIS<br>• secured-deferred-payments for XDFPIS,<br>• multiple-deferred-payments for XMDPIS,<br>• secured-multiple-deferred-payments for XMDFPIS<br>• recurring-payments for XRPIS,<br>• secured-recurring-payments for XRFPIS and<br>• multiple-recurring-payments for XMRPIS |
| payment-product | String | The payment product, under which the payment under paymentId has been initiated. |
| paymentId | String | ID of the corresponding payment object as returned by an Payment Authorisation Request |

### Query Parameters

No specific query parameter.

### Request Headers

| Attribute | Type | Condition | Description |
|---|---|---|---|
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party. |
| Authorization | String | Conditional | Is contained only, if an OAuth2 based authentication was performed in a pre-step or an OAuth2 based SCA was performed in the current PIS transaction or in a preceding AIS service in the same session, if no such OAuth2 SCA approach was chosen in the current PIS transaction. |


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### Request Body

No request body.

### Response Header

| Attribute | Type | Condition | Description |
|---|---|---|---|
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party. |

### Response Code

The HTTP response code equals 200.

### Response Body

The response body is dependent on the parameter {payment-service}. It contains the view of the ASPSP on the addressed payment resource.

The payment resources may contain e.g. in addition the transaction status data element.

**Note:** In addition, the payment resource may contain the debtorName field even if it was not provided by the API Client. This enables the ASPSP to transport the account owner name to the PISP in case where the regulatory need is provided and if not provided by other means like the List of Available Accounts Service or general AIS services for AISPs.

In all cases, the data element entries can be different from the submission entries, if the ASPSP has reformatted the content, e.g. the requested execution dates or character sets in the unstructured remittance information.

## 3.14 Get Initiations Request

### Call

`GET /v2/{extended-payment-service}/{payment-product}/{paymentId}/initiations`

Returns of all available initiation objects related to a given payment resource.

**Remark**: In case of recurring payments, the ASPSP might delete older initiations after a dedicated period.

### Path Parameters

| Attribute | Type | Description |
|---|---|---|
| extended-payment-service | String | The addressed Extended Payment Initiation Service. The default list is<br>• deferred-payments for XDPIS<br>• secured-deferred-payments for XDFPIS, |


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| Attribute | Type | Description |
|---|---|---|
| | | • multiple-deferred-payments for XMDPIS,<br>• secured-multiple-deferred-payments for XMDFPIS<br>• recurring-payments for XRPIS,<br>• secured-recurring-payments for XRFPIS and<br>• multiple-recurring-payments for XMRPIS |
| payment-product | String | The payment product, under which the payment under paymentId has been initiated. |
| paymentId | String | ID of the corresponding payment object as returned by a Payment Authorisation Request |

**Query Parameters**

| Attribute | Condition | Description |
|---|---|---|
| transactionStatus | Optional | Will provide all available initiation objects where the transactionStatus equals the requested value. |
| dateFrom | Optional | Will provide all available initiation objects where the requestedExecutionDate is later equal than the addressed date. |

**Request Headers**

| Attribute | Type | Condition | Description |
|---|---|---|---|
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party. |
| Authorization | String | Conditional | Is contained only, if an OAuth2 based authentication was performed in a pre-step or an OAuth2 based SCA was performed in the current PIS transaction or in a preceding AIS service in the same session, if no such OAuth2 SCA approach was chosen in the current PIS transaction. |

**Request Body**

No request body.

**Response Header**

| Attribute | Type | Condition | Description |
|---|---|---|---|
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party. |

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### Response Code

The HTTP response code equals 200.

### Response Body

| Attribute | Type | Condition | Description |
|---|---|---|---|
| initiations | Array of Initiation | Mandatory | List of initiations related to the addressed payment. |

***Request***

```
GET https://api.testbank.com/openfinance/v2/secured-deferred-
payments/3d9a81b3-a47d-4130-8765-a9c0ff861100/initiations
Accept:                 application/json
X-Request-ID:           99391c7e-ad88-49ec-a2ad-99ddcb1f7722
Date:                   Sun, 06 Aug 2021 15:05:07 GMT
```

***Response***

```
HTTP/1.x 200 Ok
X-Request-ID:           99391c7e-ad88-49ec-a2ad-99ddcb1f7721
Date:                   Sun, 06 Aug 2021 15:05:08 GMT
Content-Type:           application/json

{
  "initiations":
      [{"initiationId": "99391c7e-ad88-49ec-a2ad-99ddcb1ggggg",
        "transactionAmount": {"currency": "EUR", "amount": "104"},
        "transactionStatus": "ACFC",
        "_links": {
        "paymentInitiation": {"href": "/openfinance/v2/secured-deferred-
payments/sepa-credit-transfers/3d9a81b3-a47d-4130-8765-
a9c0ff861100/initiations/99391c7e-ad88-49ec-a2ad-99ddcb1ggggg"}
       }]
}
```

## 3.15 Retrieve Initiation Request

### Call

```
GET /v2/{extended-payment-service}/{payment-
product}/{paymentId}/initiations/{initiationId}
```

Returns the content of an initiation object.


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### Path Parameters

| Attribute | Type | Description |
|---|---|---|
| extended-payment-service | String | The addressed Extended Payment Initiation Service. The default list is<br>• deferred-payments for XDPIS<br>• secured-deferred-payments for XDFPIS,<br>• multiple-deferred-payments for XMDPIS,<br>• secured-multiple-deferred-payments for XMDFPIS<br>• recurring-payments for XRPIS,<br>• secured-recurring-payments for XRFPIS and<br>• multiple-recurring-payments for XMRPIS |
| payment-product | String | The payment product, under which the payment under paymentId has been initiated. |
| paymentId | String | ID of the corresponding payment object as returned by a Payment Initiation Request |
| initiationId | String | ID of the corresponding initiation object as returned by a Payment Initiation Request. |

### Query Parameters

No specific query parameter.

### Request Headers

| Attribute | Type | Condition | Description |
|---|---|---|---|
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party. |
| Authorization | String | Conditional | Is contained only, if an OAuth2 based authentication was performed in a pre-step or an OAuth2 based SCA was performed in the current PIS transaction or in a preceding AIS service in the same session, if no such OAuth2 SCA approach was chosen in the current PIS transaction. |

### Request Body

No request body.

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### Response Header

| Attribute | Type | Condition | Description |
|---|---|---|---|
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party. |

### Response Code

The HTTP response code equals 200.

### Response Body

The response body is dependent on the parameter {payment-service}. It contains the view of the ASPSP on the addressed initiation resource.

The initiation resources will contain in addition the following status data elements.

| Attribute | Type | Condition | Description |
|---|---|---|---|
| transactionStatus | Transaction Status | Mandatory | The following codes are used for deferred or recurring payment initiations:<br>• ACFC (in case of a non-secured initiation in the non-instant scenario),<br>• ACSP (from a logical assumption, the funds need to be reserved to provide this status),<br>• ACCC,<br>• ACSC<br>depending on the chosen product.<br><br>• RJCT (if no funds available) |

In all cases, the data element entries can be different from the submission entries, if the ASPSP has reformatted the content, e.g. the requested execution dates or character sets in the unstructured remittance information.

## 3.16 Payment Cancellation Request

### Call

```
DELETE /v2/{extended-payment-service}/{payment-product}/{paymentId}
```

It initiates the cancellation of a payment. Depending on the payment-service, the payment-product and the ASPSP's implementation, this API Client call might be sufficient to cancel a payment. If an authorisation of the payment cancellation is mandated by the ASPSP, a corresponding hyperlink will be contained in the response message. These two cases will be separated also in using different 2xx HTTP response codes.

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### Path Parameter

| Attribute | Type | Description |
|---|---|---|
| extended-payment-service | String | The addressed Extended Payment Initiation Service. The default list is<br>• deferred-payments for XDPIS<br>• secured-deferred-payments for XDFPIS,<br>• multiple-deferred-payments for XMDPIS,<br>• secured-multiple-deferred-payments for XMDFPIS<br>• recurring-payments for XRPIS,<br>• secured-recurring-payments for XRFPIS and<br>• multiple-recurring-payments for XMRPIS |
| payment-product | String | The payment product, under which the payment under paymentId has been initiated.<br><br>It shall be checked by the ASPSP, if the payment-product is matching the payment object addressed by paymentId. |
| paymentId | String | Resource Identification of the related payment. |

### Request Header

| Attribute | Type | Condition | Description |
|---|---|---|---|
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party. |
| Authorization | String | Conditional | Is contained only, if an OAuth2 based authentication was performed in a pre-step or an OAuth2 based SCA was performed in the current PIS transaction or in a preceding AIS service in the same session, if no such OAuth2 SCA approach was chosen in the current PIS transaction. |
| TPP-Redirect-URI | String | Conditional | 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". See [oFA-ProtSec]for further requirements on this header.<br><br>It is recommended to always use this header field.<br><br>**Remark for Future**: This field might be changed to mandatory in the next version of the specification. |

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| Attribute | Type | Condition | Description |
|---|---|---|---|
| TPP-Nok-Redirect-URI | String | Optional | 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.<br><br>See [oFA-ProtSec]for further requirements on this header. |
| Client-Explicit-Authorisation-Preferred | Boolean | Optional | If it equals "true", the API Client prefers to start the authorisation process separately, e.g. because of the usage of a signing basket. This preference might be ignored by the ASPSP, if a signing basket is not supported as functionality.<br><br>If it equals "false" or if the parameter is not used, there is no preference of the API Client. This especially indicates that the API Client assumes a direct authorisation of the transaction in the next step, without using a signing basket. |

**Query Parameters**

No specific query parameters defined.

**Request Body**

No request body.

**Response Code**

If the DELETE is sufficient for cancelling the payment: HTTP response code 204.

If the DELETE is not sufficient for cancelling the payment since an authorisation of the cancellation by the PSU is needed: HTTP response code 202.

**Response Header**

| Attribute | Type | Condition | Description |
|---|---|---|---|
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party. |

**Response Body**

In case of HTTP code 204, no response body is used.

In case of HTTP code 202, the following body is used:

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| Attribute | Type | Condition | Description |
|---|---|---|---|
| transactionStatus | Transaction Status | Mandatory | Transaction Status of the payment resource |
| scaMethods | Array of authentication objects | Conditional | This data element might be contained, if SCA is required and if the PSU has a choice between different authentication methods. Depending on the risk management of the ASPSP this choice might be offered before or after the PSU has been identified with the first relevant factor, or if an access token is transported. If this data element is contained, then there is also a hyperlink of type "startAuthorisationWith AuthenticationMethodsSelection" contained in the response body.<br><br>These methods shall be presented towards the PSU for selection by the TPP. |
| chosenScaMethod | Authentication object | Conditional | This data element is only contained in the response if the ASPSP has chosen the Embedded SCA Approach, if the PSU is already identified e.g. with the first relevant factor or alternatively an access token, if SCA is required and if the authentication method is implicitly selected. |
| challengeData | Challenge | Conditional | It is contained in addition to the data element "chosenScaMethod" if challenge data is needed for SCA. |
| | | | In rare cases this attribute is also used in the context of the "startAuthorisationWith PsuAuthentication" or "startAuthorisactionWith EncryptedPsuAuthentication" link. |
| _links | Links | Conditional | A list of hyperlinks to be recognised by the API Client. The actual hyperlinks used in the response depend on the dynamical decisions of the ASPSP when processing the request.<br><br>**Remark**: All links can be relative or full links, to be decided by the ASPSP.<br><br>Type of links admitted in this response, (further links might be added for ASPSP defined extensions): |
| | | | "startAuthorisation": |

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| Attribute | Type | Condition | Description |
|---|---|---|---|
| | | | In case, where just the authorisation process of the cancellation needs to be started, but no additional data needs to be updated for time being (no authentication method to be selected, no PSU identification nor PSU authentication data to be uploaded). |
| | | | "startAuthorisationWithPsuIdentification":<br><br>In case where a PSU Identification needs to be updated when starting the cancellation authorisation: The link to the cancellation-authorisations end-point, where the cancellation sub-resource has to be generated while uploading the PSU identification data. |
| | | | "startAuthorisationWithPsuAuthentication":<br><br>In case of a yet to be created authorisation sub-resource: The link to the cancellation-authorisation end-point, where the authorisation sub-resource has to be generated while uploading the PSU authentication data. |
| | | | "startAuthorisationWithEncryptedPsuAuthentication":<br><br>Same as startAuthorisactionWithPsu Authentication where the authentication data need to be encrypted on application layer in uploading. |
| | | | "startAuthorisationWithAuthentication MethodSelection":<br><br>The link to the authorisation end-point, where the cancellation-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" |

### *Example in case the DELETE process as such is already sufficient for cancelling the payment*

### *Request*

```
DELETE https://api.testbank.com/openfinance/v2/secured-deferred-
payments/sepa-credit-transfers/3d9a81b3-a47d-4130-8765-a9c0ff861100
```


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```
Content-Type            application/json
X-Request-ID            99391c7e-ad88-49ec-a2ad-99ddcb1f7769
Date                    Sun, 13 Aug 2017 17:05:37 GMT
```

***Response***

```
HTTP/1.x 204
X-Request-ID:           99391c7e-ad88-49ec-a2ad-99ddcb1f7769
Date:                   Sun, 13 Aug 2017 17:05:38 GMT
```

***Example in case an authorisation of the cancellation is needed by the PSU***

***Request***

```
DELETE https://api.testbank.com/openfinance/v2/secured-deferred-
payments/sepa-credit-transfers/3d9a81b3-a47d-4130-8765-a9c0ff861100
```

```
Content-Type            application/json
X-Request-ID            99391c7e-ad88-49ec-a2ad-99ddcb1f7769
Date                    Sun, 13 Aug 2017 17:05:37 GMT
```

***Response***

```
HTTP/1.x 202
X-Request-ID:           99391c7e-ad88-49ec-a2ad-99ddcb1f7769
Date:                   Sun, 13 Aug 2017 17:05:38 GMT
{"transactionStatus": "ACTC",
"_links": {
        "self": {"href": "/openfinance/v2/secured-deferred-payments/sepa-
credit-transfers/3d9a81b3-a47d-4130-8765-a9c0ff861100"},
        "status": {"href": "/openfinance/v2/secured-deferred-payments/sepa-
credit-transfers/3d9a81b3-a47d-4130-8765-a9c0ff861100/status"},
        "startAuthorisation": {"href": "/openfinance/v2/secured-deferred-
payments/sepa-credit-transfers/3d9a81b3-a47d-4130-8765-
a9c0ff861100/cancellation-authorisations"}
  }
}
```

## 3.17 Get Cancellation Authorisation Sub-Resources Request

### Call in context of a Payment Cancellation Request

```
GET /v2/{extended-payment-service}/{payment-
product}/{paymentId}/cancellation-authorisations
```

Will deliver an array of resource identifications to all generated cancellation authorisation sub-resources.


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### Path Parameters

| Attribute | Type | Description |
|---|---|---|
| extended-payment-service | String | The addressed Extended Payment Initiation Service. The default list is<br>• deferred-payments for XDPIS<br>• secured-deferred-payments for XDFPIS,<br>• multiple-deferred-payments for XMDPIS,<br>• secured-multiple-deferred-payments for XMDFPIS<br>• recurring-payments for XRPIS and<br>• secured-recurring-payments for XRFPIS |
| payment-product | String | The payment product, under which the payment under paymentId has been initiated.<br>It shall be checked by the ASPSP, if the payment-product is matching the payment initiation addressed by paymentId. |
| paymentId | String | Resource identification of the related payment initiation resource. |

### Query Parameters

No specific query parameters defined.

### Request Header

| Attribute | Type | Condition | Description |
|---|---|---|---|
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party. |
| Authorization | String | Conditional | Is contained only, if an OAuth2 based authentication was performed in a pre-step or an OAuth2 based SCA was performed in the current PIS transaction or in a preceding AIS service in the same session, if no such OAuth2 SCA approach was chosen in the current PIS transaction. |

### Request Body

No request body.

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### Response Code

The HTTP response code equals 200.

### Response Header

| Attribute | Type | Condition | Description |
|---|---|---|---|
| X-Request-ID | UUID | Mandatory | ID of the request, unique to the call, as determined by the initiating party. |

### Response Body

| Attribute | Type | Condition | Description |
|---|---|---|---|
| authorisationIds | Array of String | Mandatory | An array of all authorisationIds connected to the cancellation of this payment resource. |

#### *Example*

#### *Request*

```
GET https://api.testbank.com/openfinance/v2/secured-deferred-payments/sepa-credit-transfers/3d9a81b3-a47d-4130-8765-a9c0ff861100/cancellation-authorisations
Accept:                 application/json
X-Request-ID:           99391c7e-ad88-49ec-a2ad-99ddcb1f7723
Date:                   Sun, 06 Aug 2017 15:04:07 GMT
```

#### *Response*

```
HTTP/1.x 200 Ok
X-Request-ID:           99391c7e-ad88-49ec-a2ad-99ddcb1f7723
Date:                   Sun, 06 Aug 2017 15:04:08 GMT
Content-Type:           application/json

{
  "authorisationIds": ["3d9a81b3-a47d-4130-9999-a9c0ff861100"]
}
```

## 3.18 Payment Authorisation Specifics for Multi-currency Accounts

The payment data contained in the request body can also address sub-accounts which are provided in specific currencies, cp. definition of multi-currency accounts in [oFA-ComV2].

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# 4 References

## 4.1 Informative References

[XS2A-OR] NextGenPSD2 XS2A Framework, Operational Rules, The Berlin Group Joint Initiative on a PSD2 Compliant XS2A Interface, version 1.3., published December 2019

[oFA-ComV2] openFinance API Framework, XS2A API as PSD2 Interface, Implementation Guidelines, Version 2.0 05 October 2023

## 4.2 Normative References

[oFA-OR-EPIS] openFinance API Framework, Operational Rules, Extended Payment Initiation Services, Version 2.0, 07 November 2023

[oFA-ProtSec] openFinance API Framework, Protocol Functions and Security Measures in Version 2.x, version 2.0, 05 October 2023

[oFA PFDom] openFinance API Framework, Payment Formats for V2.x and Domestic AIS/PIS definitions, current version

[oFA DaD] openFinance API Framework, Data Dictionary for V2.x, Version 2.0,05 October 2023

[oFA-OR-ADM] openFinance API Framework, Operational Rules for Administrative Service, Version 0.9, published for market consultation 26 May 2021

[EBA-RTS] Commission Delegated Regulation (EU) 2018/389 of 27 November 2017 supplementing Directive 2015/2366 of the European Parliament and of the Council with regard to Regulatory Technical Standards for Strong Customer Authentication and Common and Secure Open Standards of Communication, C(2017) 7782 final, published 13 March 2018

[eIDAS] Regulation (EU) No 910/2014 of the European Parliament and of the Council on Electronic Identification and Trust Services for Electronic Transactions in the Internal Market, 23 July 2014, published 28 August 2014

[PSD2] Directive (EU) 2015/2366 of the European Parliament and of the Council on payment services in the internal market, published 23 December 2015

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