

# Special remarks - Unzer Payments

## Additional specification

Currently there are some technical limitations regarding the "fulfillment\_delay" and "refund\_announcement". If you plan on using them you have to implement the the "preauthorization" instead of "authorization" also always use API version 3.10 when using Unzer Pay Later™.

## Referencing preliminary requests by "workorderid"

Unzer offers a couple of preliminary requests ("calculation" and "pre\_check") that need to be referenced during the preauthorization/authorization of a transaction.

The "pre\_check" request can be used to perform a preliminary risk check. **This request is optional.**

The "calculation" request **is required for installment transactions.**

If you decide to use the pre\_check in your implementation, make sure that you pass the workorderid returned by the "pre\_check" on to following requests.

### Example:

- If you try to perform an **installment** payment with a preceding "pre\_check" you need to reference the "pre\_check"'s workorderid in both the "calculation" and "preauthorization"/"authorization" requests. In this particular case, you don't need to reference the workorderid of the "calculation" request.
- If you try to perform an **installment** payment without a preceding "pre\_check" you need to reference the workorderid of the preceding "calculation" request.
- If you try to perform an **invoice** payment with a preceding "pre\_check" you need to reference the workorderid of the "pre\_check"

## Fraud Prevention

Unzer offers the possibility to send a session\_id, referencing a complete customer session. This is to make sure, that all requests sent by the merchant, belong to the same customer session. This helps Unzer to make sure, that there are no fraudulent requests sent by a third party.

For each checkout process, a session ID has to be created and transmitted to Unzer in two ways:

1. When loading the fraud prevention JS, and 2. during API requests.

The add\_paydata[analysis\_session\_id] is a temporary identifier that is unique to the visitor's session and per event/order. It can be up to 128 bytes long and must only consist of the following characters:

- upper and lowercase English letters([az], [A-Z])
- digits (0-9)
- underscore (\_)
- hyphen(-)

### Example

```
sessionId= merchantshop_cd-695a7565-979b-4af9
```

### Recommendations for creation of add\_paydata[analysis\_session\_id]:

- Use a merchant identifier (URL without domain additions), append an existing session identifier from a cookie, append the date and time in milliseconds to the end of the identifier and then applying a hexadecimal hash to the concatenated value to produce a completely unique Session ID.
- Use a merchant identifier (URL without domain additions), append an existing session identifier from the web application and applying a hexadecimal hash to the value to obfuscate the identifier.

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1

Define a session ID. Unzer recommends to concatenate the merchant name, an existing session identifier and a timestamp in milliseconds, then apply a hexadecimal hash function. The session ID must be retained through the checkout process.

2

Load the fraud prevention JavaScript, be sure to replace the [SessionID] placeholder. 363t8kgq is a static value:

```
<head>
  <script type="text/javascript" src="https://h.online-
  metrix.net/fp/tags.js?org_id=363t8kgq&session_id=[SessionID]"
  ></script>
</head>

<body>
  <noscript>
    <iframe style="width: 100px; height: 100px;
    border: 0; position: absolute; top: -5000px;" src="https://h.
    online-metrix.net/fp/tags?org_id=363t8kgq&session_id=
    [SessionID]"></iframe>
  </noscript>
</body>
```

You are free to use any asynchronous loading mechanism. We strongly recommend to load the JS only when the customer hits the acceptance checkbox of the privacy statement to avoid GDPR issues.

3

The session ID must be added to all `pre_check` and `authorization` /`preauthorization` requests in the parameter `add_paydata` [`analysis_session_id`]

## B2B Transactions

Unzer supports B2B transactions for (monthly) Invoice and Debit transactions. If you want your transaction to be flagged as B2B, you need to set the parameter "add\_paydata[b2b]" to "yes" for all requests regarding this transaction.

B2B transactions are only available for Unzer Rechnungskauf.

## Unzer HTTP Authentication

As part of the calculation request response a document URL is returned as well (StandardCreditInformationUrl). In order to access the referenced document HTTP authentication is required. The user credentials are the channelname and password provided by Unzer.

## Preauthorization/Authorization

### Request

Parameter	Required	Comment						
api_version	+	Has to be at least "3.10"						
clearingtype	+	Has to be "fnc": Financing						
financingtype	+	PYV: Unzer Rechnungskauf PYM: Unzer - Monthly PYS: Unzer Ratenkauf PYD: Unzer Lastschrift						
amount	+	Total amount (in smallest currency unit! e.g. cent)						
currency	+	Currency (ISO 4217) Specifies currency for this transaction  FormatLIST Permitted values ISO 4217 (currencies) 3-letter-codes SamplesEUR USD GBP						
workorderid	o	Required for Preauth/Auth of Unzer Ratenkauf / references the preceding calculation request  The workorderid is a technical id returned from the PAYONE platform to identify a workorder. A workorder is a part of a payment process (identified by a txid). The workorderid is used for the genericpayment request. FormatCHAR(1..50)						
narrative_text	-	Dynamic text element on account statements FormatCHAR(1..81) (3 lines with 27 characters each) and credit card statements.						
reference	+	Merchant reference number for the payment process  Merchant reference number for the payment process (case insensitive) FormatCHAR(1..20) Permitted Symbols[0-9][a-z][A-Z], ., -, _ , /						
email	+	Customers e-mail address  email-address of customer FormatCHAR(5..254) Permitted SymbolsRFC 5322						
it[n]	-	<table border="1"> <thead> <tr> <th>it[n]</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>goods</td> <td>Goods</td> </tr> <tr> <td>shipment</td> <td>Shipping Charges</td> </tr> </tbody> </table> <p>Note: handling and voucher are not supported and will be mapped to goods</p>	it[n]	Comments	goods	Goods	shipment	Shipping Charges
it[n]	Comments							
goods	Goods							
shipment	Shipping Charges							
id[n]	-	International Article Number (EAN bzw. GTIN)  Product number, SKU, etc. of this item FormatCHAR(1..32) Array  Array elements [n] starting with [1]; serially numbered; max [400] Permitted Symbols[0-9][A-Z][a-z][()[]{}+_-#/:]						

pr[n]	-	<p>Unit gross price of the item in smallest unit! e.g. cent</p> <p>FormatNUMERIC(10) max. 19 999 999 99Array</p> <p>Array elements [n] starting with [1]; serially numbered; max [400]</p>
no[n]	-	<p>Quantity of this item</p> <p>FormatNUMERIC(6)Array</p> <p>Array elements [n] starting with [1]; serially numbered; max [400]</p>
de[n]	-	<p>Description of this item. Will be printed on documents to customer.</p> <p>FormatCHAR(1..255)Array</p> <p>Example</p> <p>Array elements [n] starting with [1]; serially numbered; max [400]</p> <pre> de[1]=Product 1 de[2]=Product 2 de[3]=Product 3 ... de[400]=Product 400 </pre>
add_paydata [installment_duration]	o	<p>Required for Unzer Ratenkauf, value has to be the result of a preceding generic calculation request</p>
company	o	<p>Company name, required for B2B transactions (if add_paydata[b2b] = "yes")</p>
birthday	+	<p>Date of birth of customer</p> <p>FormatDATE(8), YYYYMMDDSamples20190101 19991231</p>
firstname	+	<p>First name of customer; optional if company is used, i.e.: you may use</p> <ul style="list-style-type: none"> <li>• "company"</li> <li>• or "lastname"</li> <li>• or "firstname" plus "lastname"</li> </ul> <p>FormatCHAR(1..50)</p>
lastname	+	<p>Last name of customer; optional if company is used, i.e.: you may use</p> <ul style="list-style-type: none"> <li>• "company"</li> <li>• or "lastname"</li> <li>• or "firstname" plus "lastname"</li> </ul> <p>FormatCHAR(2..50)</p>
street	+	<p>Street number and name</p>
zip	+	<p>Postcode</p> <p>FormatCHAR(2..10)Permitted Symbols[0-9][A-Z][a-z][ _.-/ ]</p>
city	+	<p>City</p>

country	+	<p>Specifies country of address for the customer FormatLIST</p> <p>Permitted valuesISO 3166 2-letter-codes SamplesDE</p> <p>GB US Some countries require</p> <p>additional information in parameter "state"</p>
ip	+	Customer's IP-V4-address (123.123.123.123) or IP-V6-address
bankcountry	o	<p>Account type/ country for use with BBAN (i.e. bankcode, bankaccount): DE</p> <p>DE: Mandatory with bankcode, bankaccount, optional with IBAN</p> <p>For other countries than DE please use IBAN or IBAN/BIC FormatLIST</p>
bankaccount	o	<p>Account number (BBAN)</p> <ul style="list-style-type: none"> <li>DE: bankcountry, bankcode and bankaccount may be used. Then IBAN will be generated by PAYONE platform and used for SEPA transactions.</li> <li>Not DE: Please use IBAN or IBAN / BIC.</li> </ul> <p>FormatNUMERIC(1..10)</p>
bankcode	o	<p>Sort code (BBAN) (only in DE)</p> <ul style="list-style-type: none"> <li>DE: bankcountry, bankcode and bankaccount may be used. Then IBAN will be generated by PAYONE platform and used for SEPA transactions.</li> <li>Not DE: Please use IBAN or IBAN / BIC.</li> </ul> <p>FormatNUMERIC(8)</p>
iban - definition	o	<p>IBAN to be used for payment or to be checked FormatCHAR(10..34) Permitted Symbols[0-9][A-Z]</p>
bic	o	<p>Bank Identifier Code to be used for payment or to be checked Format CHAR(8 or 11) Only capital letters and digits, no spacesBIC is</p> <p>Permitted Symbols[0-9][A-Z] optional for all Bank transfers within SEPA. For Accounts from Banks outside of SEPA, BIC is still required.</p>
add_paydata [company_trade_registry_number]	-	Trade registry number for B2B transactions
add_paydata [b2b]	-	<p>Optional, defaults to "no"</p> <p>Set "yes" for B2B transactions</p> <p>B2B transactions only available for PYV transactions.</p> <p>For additional information refer to chapter 1.4</p>
add_paydata [company_uid]	-	VAT identification number, recommended for better acceptance rates with b2b transactions
add_paydata [company_register_key]	-	ID of other company register than trade registry or UID

add_paydata [mobile]	-	Optional mobile phone number
add_paydata [analysis_transportation_<suffix>]	-	<p>&lt;suffix&gt; is one of:</p> <p>company - DHL, UPS</p> <p>tracking - delivery tracking package id</p> <p>return_tracking - for tracking id of returns</p> <p>You can use these parameters on authorization and capture requests</p>
add_paydata [analysis_customer_<suffix>]	-	<p>&lt;suffix&gt; is one of:</p> <p>group - customer group</p> <p>confirmed_orders - recently confirmed orders</p> <p>confirmed_amount - recently confirmed amount</p> <p>internal_score - internal risk score of the merchant</p>
add_paydata [analysis_item_category_<n>]	-	<p>Item category</p> <p>Replace &lt;n&gt; with the shopping item id you want to categorize</p>
add_paydata [analysis_webshop_url]	-	Webshop URL
add_paydata [payment_session_id]	-	see Chapter "Fraud Prevention" for more details

## Response

Parameter	Required	Comment
workorderid	-	Used to reference a preceding calculation or pre-check request
status	+	APPROVED / REDIRECT / ERROR / PENDING
txid	+	Transaction ID
add_paydata [clearing_reference]	+	accounting number, used to print on the invoice
Parameter (ERROR)		
errorcode	+	Error number
errormessage	-	Error message
customermessage	-	<p>Error message for the end customer</p> <p>(Language selection is based on the end customer's language, „language“)</p>

## Capture

The capture request is used to finalize a preauthorized transaction.

If you use preauth/Capture with installment transactions, the capture request has to be sent right after the preauthorization

## Request

Parameter	Required	Comment												
txid	+	Payment process ID (PAYONE)												
clearingtype	+	Has to be "fnc": Financing												
financingtype	+	PYV: Unzer Rechnungskauf PYM: Unzer Monthly PYS: Unzer Ratenkauf PYD: Unzer Lastschrift												
add_paydata[b2b]	-	Optional, defaults to "no" Set "yes" for B2B transactions B2B transactions only available for PYV transactions. For additional information refer to chapter 1.4												
capturemode	+	<p>Specifies whether this capture is the last one or whether there will be another one in future. FormatLIST</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>completed</td> <td> <ul style="list-style-type: none"> <li>Set with last capture; i.e.: Delivery completed.</li> <li>No further capture is allowed.</li> </ul> </td> </tr> <tr> <td>notcompleted</td> <td> <ul style="list-style-type: none"> <li>Set with partial deliveries (last delivery with "completed")</li> <li>Another capture is expected to complete the transaction.</li> </ul> </td> </tr> </tbody> </table> <p>Payment specific:</p> <table border="1"> <thead> <tr> <th>Payment type</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>PDT</td> <td>Parameter "capturemode" is mandatory.</td> </tr> <tr> <td>KLS, KLV</td> <td>Parameter "capturemode" is mandatory.</td> </tr> </tbody> </table>	Value	Comment	completed	<ul style="list-style-type: none"> <li>Set with last capture; i.e.: Delivery completed.</li> <li>No further capture is allowed.</li> </ul>	notcompleted	<ul style="list-style-type: none"> <li>Set with partial deliveries (last delivery with "completed")</li> <li>Another capture is expected to complete the transaction.</li> </ul>	Payment type	Comment	PDT	Parameter "capturemode" is mandatory.	KLS, KLV	Parameter "capturemode" is mandatory.
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Payment type	Comment													
PDT	Parameter "capturemode" is mandatory.													
KLS, KLV	Parameter "capturemode" is mandatory.													
amount	+	Amount to be entered (in smallest currency unit! e.g. cent) The amount must be less than or equal to the amount of the corresponding booking.												
sequencenumber	0	Sequence number for this transaction within the payment process (1..n), e.g. PreAuthorization: 0, 1. Capture: 1, 2. Capture: 2 Required for multi partial capture (starting with the 2 <sup>nd</sup> capture) FormatNUMERIC(1..3) Permitted values0..127												

currency	+	<p>Specifies currency for this transaction</p> <p>FormatLIST Permitted values ISO 4217 (currencies) 3-letter-codes</p> <p>Samples</p> <p>EUR</p> <p>USD</p> <p>GBP</p>
narrative_text	-	Human readable description of the reason for the transaction
add_paydata [analysis_customer_<suffix>]	-	<p>&lt;suffix&gt; is one of:</p> <p>group - customer group</p> <p>confirmed_orders - recently confirmed orders</p> <p>confirmed_amount - recently confirmed amount</p> <p>internal_score - internal risk score of the merchant</p>
add_paydata [analysis_invoice_id]	-	Additional field for an invoice ID that the merchant can use for his own purposes
add_paydata [analysis_order_id]	-	Additional field for an order ID that the merchant can use for his own purposes

## Response

Parameter	Required	Comment
status	+	APPROVED / ERROR
txid	+	Payment process ID (PAYONE)
add_paydata [clearing_reference]	+	accounting number, used to print on the invoice (only for API version >3.10)

## Debit/Refund

Only Unzer Pay Later™ specific parameters are described here. Refer to the Payone API description

## Request

Parameter	Required	Comment
add_paydata [analysis_invoice_id]	-	Additional field for an invoice ID that the merchant can use for his own purposes
add_paydata [analysis_order_id]	-	Additional field for an order ID that the merchant can use for his own purposes
add_paydata[b2b]	o	<p>Optional, defaults to "no"</p> <p>Set "yes" for B2B transactions</p> <p>B2B transactions only available for PYV transactions.</p> <p>For additional information refer to chapter 1.4</p>

## genericpayment – add\_paydata[action] = calculation

The calculation request is used, whenever you need to retrieve financing plans for the payment type “Unzer Pay Later™-Installment”. It accepts the amount of the transaction as an input parameter and returns all possible payment plans.

The calculation request has to be referenced in an installment preauthorization/authorization. add\_paydata[installment\_duration] is used to specify the desired duration for the payment plan in months.

### Request

Parameter	Required	Comment
add_paydata[action]	+	For “calculation” Requests this has to be: - calculation
clearingtype	+	Has to be "fnc": Financing
financingtype	+	PYV: Unzer Rechnungskauf PYM: Unzer Monthly PYS: Unzer Ratenkauf PYD: Unzer Lastschrift
amount	o	Required for action=pre_check and action=calculation
currency	+	Specifies currency for this transaction  FormatLIST Permitted values ISO 4217 (currencies) 3-letter-codes  SamplesEUR USD GBP
add_paydata[analysis_merchant_comment]	-	Comment field for the merchant
add_paydata[company_uid]	-	Only for action=pre_check  VAT identification number, recommended for better acceptance rates with b2b transactions

### Response

Parameter	Required	Comment
status	+	OK / ERROR
workorderid	+	The workorderid has to be referenced during preauth/auth
add_paydata[PaymentDetails_<n>_Currency]	-	Currency

add_paydata [PaymentDetails_<n>_StandardCreditInformationUrl]	-	A URL to the EU Standard Credit Information hosted by Unzer
add_paydata [PaymentDetails_<n>_Usage]	-	A human readable description of the reason for the payment Replace n with natural number
add_paydata [PaymentDetails_<n>_Duration]	-	Defines how many installments are used to perform the payment Replace n with natural number
add_paydata [PaymentDetails_<n>_EffectiveInterestRate]	-	The effective interest rate p.a. in percent
add_paydata [PaymentDetails_<n>_InterestRate]	-	The interest rate p.a. in percent
add_paydata [PaymentDetails_<n>_MinimumInstallmentFee]	-	The minimum fee for the installment payment, which will be charged even if the interest would be lower than that (e.g. because of partial refunds)
add_paydata [PaymentDetails_<n>_OriginalAmount]	-	The original transaction amount as transmitted by the merchant
add_paydata [PaymentDetails_<n>_TotalAmount]	-	The total transaction amount as transmitted by the merchant
add_paydata [PaymentDetails_<n>_Installment_<m>_amount]	-	Amount of installment number m
add_paydata [PaymentDetails_<n>_Installment_<m>_due]	-	Due date of installment number m
add_paydata [PaymentDetails_<n>_Installment_<m>_dueInDays]	-	Number of days until installment number m is due

genericpayment – add\_paydata[action] = pre\_check

This can be used to perform a preliminary risk check.

## Request

Parameter	Required	Comment
clearingtype	+	Has to be "fnc": Financing
financingtype	+	PYV: Unzer Rechnungskauf PYM: Unzer Monthly PYS: Unzer Ratenkauf PYD: Unzer Lastschrift
ip	+	Customer's IP-V4-address (123.123.123.123) or IP-V6-address
email	+	Customers e-mail address
add_paydata[action]	+	For "pre-check" Requests this has to be: - pre_check

add_paydata[payment_type]	+	FormatLIST Permitted values Payolution-Invoicing Payolution-Installment Payolution-Monthly Payolution-Debit
add_paydata[b2b]	-	Optional, defaults to "no" Set "yes" for B2B transactions B2B transactions only available for PYV transactions. For additional information refer to chapter 1.4
add_paydata [company_trade_registry_number]	-	Trade registry number for B2B transactions
add_paydata [company_register_key]	-	ID of other company register than trade registry or UID
add_paydata[mobile]	-	Only for action=pre_check Optional mobile phone number
amount	+	Amount to be entered (in smallest currency unit! e.g. cent)
currency	+	Specifies currency for this transaction  FormatLIST Permitted values ISO 4217 (currencies) 3-letter-codes SamplesEUR USD GBP
company	o	Company name, required for B2B transactions (if add_paydata[b2b] = "yes")
birthday	+	Date of birth (YYYYMMDD)
firstname	+	First name
lastname	+	Surname
street	+	Street number and name
zip	+	Postcode
city	+	City
country	+	Specifies country of address for the customer FormatLIST Permitted valuesISO 3166 2-letter-codes SamplesDE GB Some countries require additional information in parameter " <a href="#">state</a> " US
add_paydata[payolution_session_id]	-	see Chapter "Fraud Prevention" for more details

## Response

Parameter	Required	Comment
status	+	OK / ERROR
workorderid	+	The workorderid is a technical id returned from the PAYONE platform to identify a workorder. A workorder is a part of a payment process (identified by a txid). The workorderid is used for the genericpayment request. FormatCHAR(1..50)

## genericpayment – add\_paydata[action] = refund\_announcement

If a customer announces a return to the customer support it is possible to send a "refund\_announcement" request in order to stop the dunning process.

### Request

Parameter	Required	Comment
add_paydata[action]	+	For "refund_announcement" Requests this has to be: - refund_announcement
clearingtype	+	Has to be "fnc": Financing
financingtype	+	PYV: Unzer Rechnungskauf PYM: Unzer Monthly PYS: Unzer Ratenkauf PYD: Unzer Lastschrift
add_paydata[txid]	+	Not the regular TXID that is returned by all preauth/auth requests. This txid is returned as "add_paydata[txid]" for preauthorizations using API version 3.10
workorderid	+	The "workorderid" of the corresponding preauth/auth request. It is only returned for preauthorizations using API version 3.10
amount	+	Amount to be entered (in smallest currency unit! e.g. cent)
currency	+	Specifies currency for this transaction  FormatLIST Permitted values ISO 4217 (currencies) 3-letter-codes SamplesEUR USD GBP

### Response

Parameter	Required	Comment
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status	+	OK / ERROR
workorderid	+	The workorderid is a technical id returned from the PAYONE platform to identify a workorder. A workorder is a part of a payment process (identified by a <code>txid</code> ). The workorderid is used for the genericpayment request. Format: CHAR(1..50)

## genericpayment – add\_paydata[action] = fulfillment\_delay

If the merchant can't abide by his committed fulfillment date, it is possible to send a "fulfillment\_delay" request in order to delay the dunning process until a specified date.

### Request

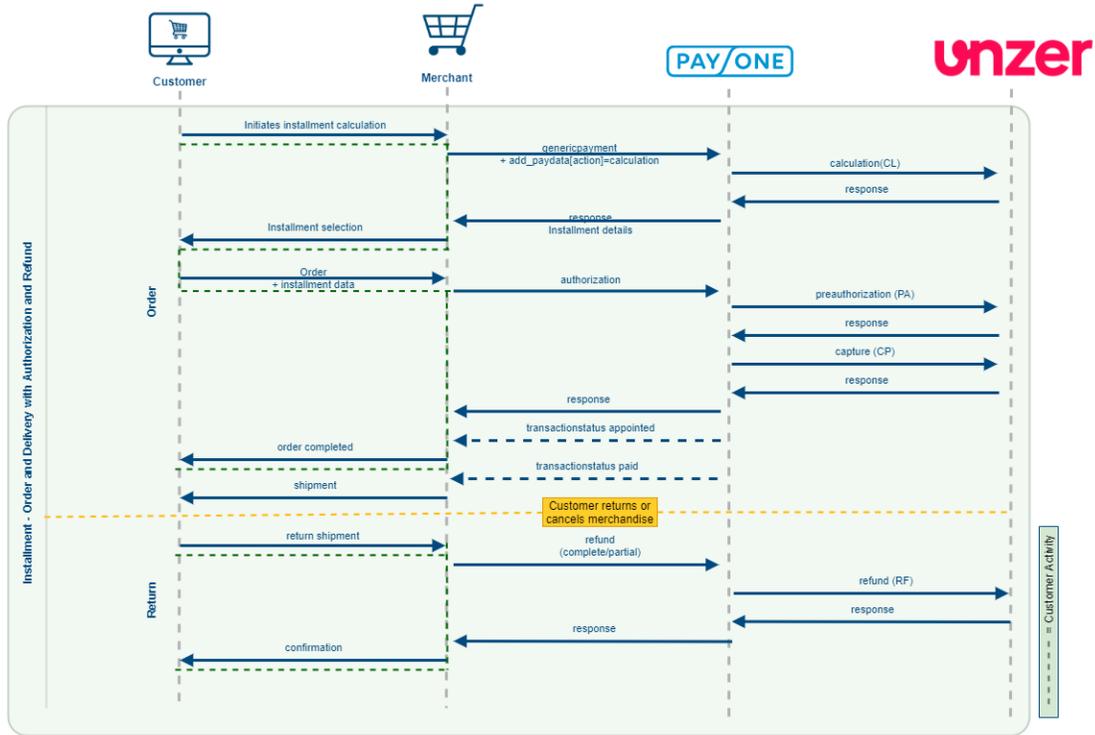
Parameter	Required	Comment
add_paydata[action]	+	For "fulfillment_delay" requests this has to be: - fulfillment_delay
add_paydata[analysis_expected_fulfillment_date]	+	New expected fulfillment date. Format: YYYY-MM-DD
add_paydata[txid]	+	Not the regular TXID that is returned by all preauth/auth requests. This txid is returned as "add_paydata[txid]" for preauthorizations using API version 3.10
workorderid	+	The "workorderid" of the corresponding preauth/auth request. It is only returned for preauthorizations using API version 3.10
amount	+	Amount to be entered (in smallest currency unit! e.g. cent)
currency	+	Specifies currency for this transaction  Format: LIST Permitted values: ISO 4217 (currencies) 3-letter-codes Samples: EUR USD GBP

### Response

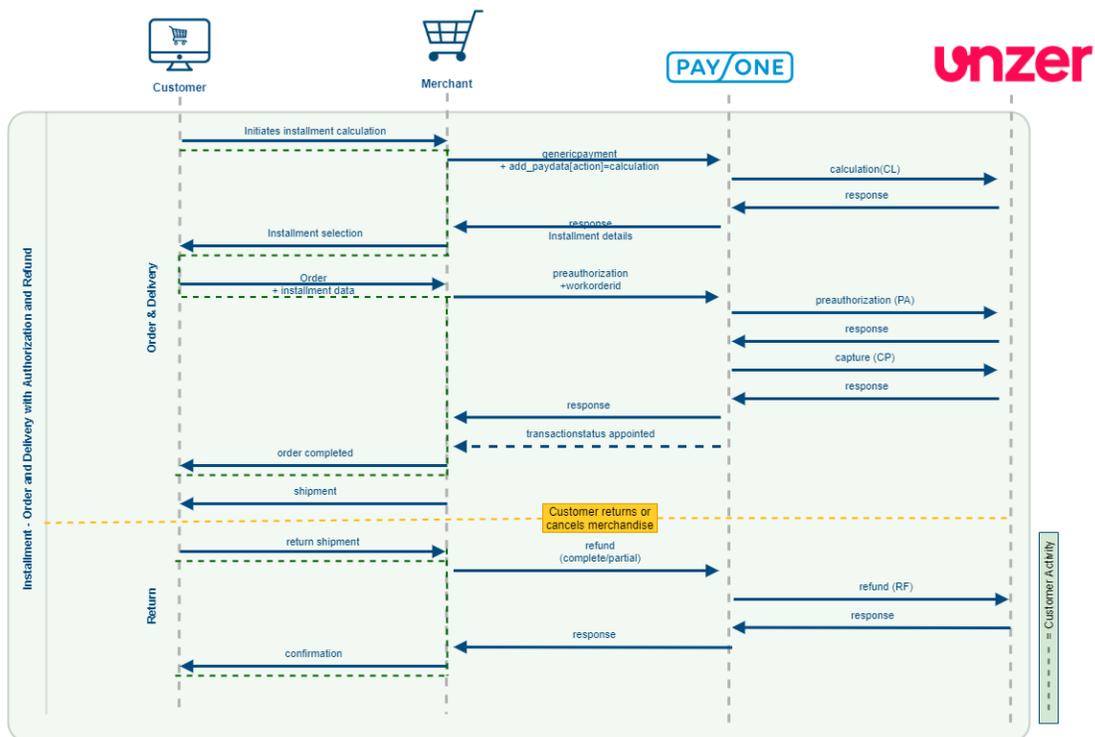
Parameter	Required	Comment
status	+	OK / ERROR
workorderid	+	The workorderid is a technical id returned from the PAYONE platform to identify a workorder. A workorder is a part of a payment process (identified by a <code>txid</code> ). The workorderid is used for the genericpayment request. Format: CHAR(1..50)

### Sequence Diagrams

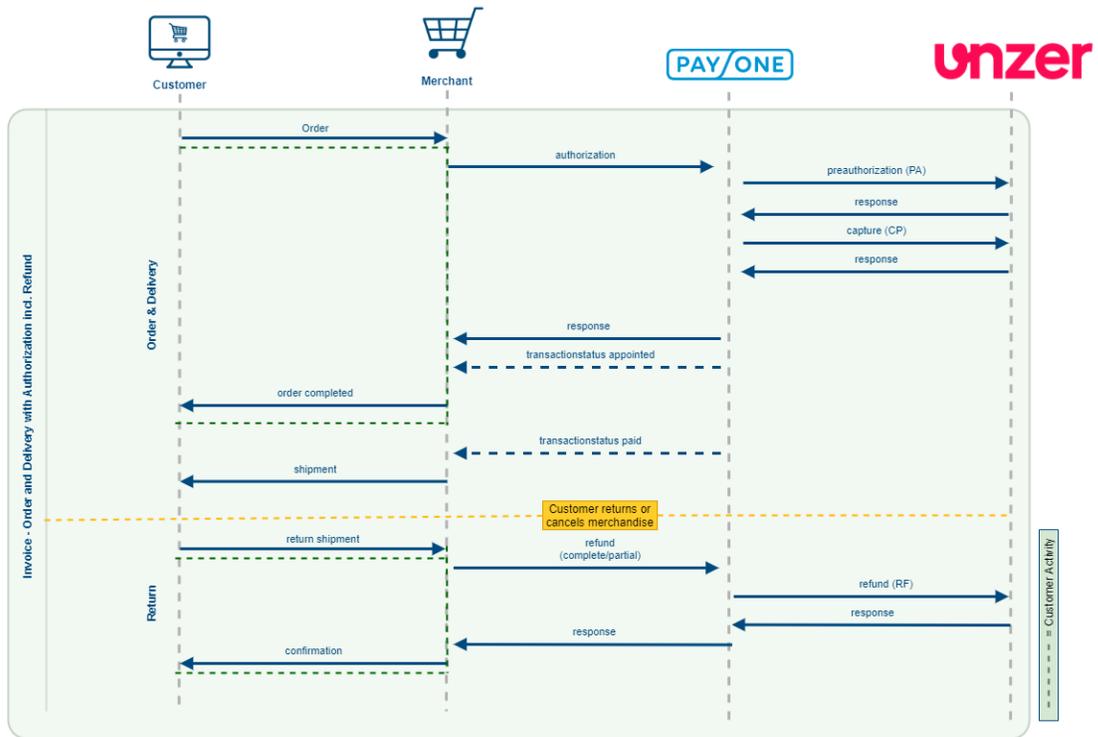
## Installment Authorization and Refund



## Installment Preauthorization and Refund



## Invoice Sale Authorization and Refund



## Invoice Preauthorization and Refund

## Reversal

