

# UPI via PPRO

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## About UPI via PPRO

### General information about UPI via PPRO

|      |                                                                                   |
|------|-----------------------------------------------------------------------------------|
| Logo |  |
| Info | .....                                                                             |
| Type | <a href="#">Payments by Online Bank Transfer</a>                                  |

### Process flow chart



UPI process flow

## Paygate interface

### Definitions

#### Data formats

| Format | Description                                      |
|--------|--------------------------------------------------|
| a      | alphabetical                                     |
| as     | alphabetical with special characters             |
| n      | numeric                                          |
| an     | alphanumeric                                     |
| ans    | alphanumeric with special characters             |
| ns     | numeric with special characters                  |
| bool   | boolean expression (true or false)               |
| 3      | fixed length with 3 digits/characters            |
| ..3    | variable length with maximum 3 digits/characters |
| enum   | enumeration of allowed values                    |
| dtm    | ISODateTime (YYYY-MM-DDThh:mm:ss)                |

## Abbreviations

| Abbreviation | Description | Comment                                                                                                             |
|--------------|-------------|---------------------------------------------------------------------------------------------------------------------|
| CND          | condition   |                                                                                                                     |
| M            | mandatory   | If a parameter is mandatory, then it must be present                                                                |
| O            | optional    | If a parameter is optional, then it can be present, but it is not required                                          |
| C            | conditional | If a parameter is conditional, then there is a conditional rule which specifies whether it is mandatory or optional |

**Notice:** Please note that the names of parameters can be returned in upper or lower case.

## Payment with UPI (PPRO) via form interface

To make a UPI payment via PPRO over a Paygate form, please use the following URL:

<https://www.computop-paygate.com/upi.aspx>

**Notice:** For security reasons, Computop Paygate rejects all payment requests with formatting errors. Therefore, please use the correct data type for each parameter.

The following table describes the [encrypted payment request parameters](#):

| Key                        | Format   | CND | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|----------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">MerchantID</a> | ans..30  | M   | MerchantID, assigned by Computop. Additionally this parameter has to be passed in plain language too.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <a href="#">TransID</a>    | ans..64  | M   | TransactionID provided by you which should be unique for each payment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <a href="#">refnr</a>      | ans..40  | O   | Merchant's unique reference number. Only characters a-zA-Z0-9,-_ are allowed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <a href="#">Amount</a>     | n..10    | M   | Amount in the smallest currency unit (e.g. EUR Cent). Please contact the <a href="#">Computop Helpdesk</a> , if you want to capture amounts <100 (smallest currency unit).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <a href="#">Currency</a>   | a3       | M   | Currency, three letters DIN / ISO 4217. Only EUR permissible. Please find an overview here: <a href="#">A1 Currency table</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <a href="#">MAC</a>        | an64     | M   | Hash Message Authentication Code (HMAC) with SHA-256 algorithm. Details can be found here: <ul style="list-style-type: none"><li><a href="#">HMAC Authentication (Request)</a></li><li><a href="#">HMAC Authentication (Notify)</a></li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <a href="#">Order Desc</a> | ans..768 | M   | Description of delivered products, services etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <a href="#">URLSuccess</a> | ans..256 | M   | Complete URL which calls up Paygate if payment has been successful. The URL may be called up only via port 443. This URL may not contain parameters: In order to exchange values between Paygate and shop, please use the parameter <a href="#">UserData</a> .<br><b>i Common notes:</b> <ul style="list-style-type: none"><li>We recommend to use parameter "response=encrypt" to get an encrypted response by Paygate</li><li>However, fraudster may just copy the encrypted DATA-element which are sent to URLFailure and send the DATA to URLSuccess. Therefore ensure to check the "code"-value which indicates success/failure of the action. Only a result of "code=00000000" should be considered successful.</li></ul>             |
| <a href="#">URLFailure</a> | ans..256 | M   | Complete URL which calls up Paygate if payment has been unsuccessful. The URL may be called up only via port 443. This URL may not contain parameters: In order to exchange values between Paygate and shop, please use the parameter <a href="#">UserData</a> .<br><b>i Common notes:</b> <ul style="list-style-type: none"><li>We recommend to use parameter "response=encrypt" to get an encrypted response by Paygate</li><li>However, fraudster may just copy the encrypted DATA-element which are sent to URLFailure and send the DATA to URLSuccess/URLNotify. Therefore ensure to check the "code"-value which indicates success/failure of the action. Only a result of "code=00000000" should be considered successful.</li></ul> |
| <a href="#">Response</a>   | a7       | O   | Status response sent by Paygate to <a href="#">URLSuccess</a> and <a href="#">URLFailure</a> , should be encrypted. For this purpose, transmit <a href="#">Response=encrypt</a> parameter.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

|                  |           |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------|-----------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| URLNotify        | ans..256  | M | <p>Complete URL which Paygate calls up in order to notify the shop about the payment result. The URL may be called up only via port 443. It may not contain parameters: Use the <a href="#">UserData</a> parameter instead.</p> <p><b>i Common notes:</b></p> <ul style="list-style-type: none"> <li>Before follow-up actions (capture / credit / reversal) are carried out on an existing transaction, the first Notify must have been answered by the shop.</li> <li>Fraudster may just copy the encrypted DATA-element which are sent to URLFailure and send the DATA to URLSuccess /URLNotify. Therefore ensure to check the "code"-value which indicates success/failure of the action. Only a result of "code=00000000" should be considered successful.</li> </ul>                                                                                                                                                                       |
| UserData         | ans..1024 | O | If specified at request, Paygate forwards the parameter with the payment result to the shop.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ReqID            | ans..32   | O | <p>To avoid double payments or actions (e.g. by ETM), enter an alphanumeric value which identifies your transaction and may be assigned only once. If the transaction or action is submitted again with the same ReqID, Computop Paygate will not carry out the payment or new action, but will just return the status of the original transaction or action.</p> <p>Please note that the Computop Paygate must have a finalized transaction status for the first initial action (authentication /authorisation). This does not apply to 3-D Secure authentications that are terminated by a timeout. The 3-D Secure Timeout status does not count as a completed status in which the ReqID functionality on Paygate does not take effect. Submissions with identical ReqID for an open status will be processed regularly.</p> <p><b>Notice:</b> Please note that a ReqID is only valid for 12 month, then it gets deleted at the Paygate.</p> |
| Selling Point    | ans..50   | O | Selling point                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Service          | ans..50   | O | products or service sold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Channel          | ans..64   | O | Configuration channel of the PPRO contract (account and ContractID are stored in the system). If it exists, it may overwrite channels stored in the system.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| AddrCountry Code | a2        | O | Country code for the account holder's invoicing address, 2 characters according to ISO 3166. <b>Only IN allowed</b> , defined within the code.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Name             | an..50    | O | Full name of consumer / shopper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Plain            | ans..50   | O | <p>A single value to be set by the merchant to return some information unencrypted in response/notify, e.g. the MID.</p> <p>"Plain"-parameter is part of encrypted "Data" in Computop Paygate and therefore protected against manipulation.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Custom           | ans..1024 | O | <p>"Custom"-parameter is added to the request data before encryption and is part of encrypted "Data" in Computop Paygate request. By this they are protected against manipulation by a consumer.</p> <p>The Custom-value is added to the Computop Paygate response in plain text and the " " is replaced by a "&amp;". By this you can put a single value into Custom-parameter and get multiple key-value-pairs back in response for your own purpose.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

Parameters for payments with UPI (PPRO)

The following table gives the result parameters which Computop Paygate transmits to **URLSuccess** or **URLFailure** and **URLNotify**. If you have specified the **Response=encrypt** parameter, the following parameters are sent [Blowfish encrypted](#) to your system:

**i** pls. be prepared to receive additional parameters at any time and do not check the order of parameters

**i** the key (e.g. mid, RefNr) should not be checked case-sensitive

| Key         | Format    | CND | Description                                                                                                                                                                                                                                             |
|-------------|-----------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| mid         | ans..30   | M   | MerchantID, assigned by Computop                                                                                                                                                                                                                        |
| PayID       | an32      | M   | ID assigned by Paygate for the payment, e.g. for referencing in batch files as well as for capture or credit request.                                                                                                                                   |
| XID         | an32      | M   | ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate                                                                                                                                                |
| TransID     | ans..64   | M   | TransactionID provided by you which should be unique for each payment                                                                                                                                                                                   |
| refnr       | ans..40   | O   | Merchant's unique reference number. Only characters a-zA-Z0-9,-_ are allowed.                                                                                                                                                                           |
| Status      | a..50     | M   | OK or AUTHORIZE_REQUEST ( <a href="#">URLSuccess</a> ) as well as FAILED ( <a href="#">URLFailure</a> )                                                                                                                                                 |
| Description | ans..1024 | M   | Further details in the event that payment is rejected. Please <b>do not</b> use the <b>Description</b> but the <a href="#">Code</a> parameter for the transaction status analysis!                                                                      |
| Code        | an8       | M   | Error code according to Paygate Response Codes ( <a href="#">A4 Error codes</a> )                                                                                                                                                                       |
| MAC         | an64      | M   | <p>Hash Message Authentication Code (HMAC) with SHA-256 algorithm. Details can be found here:</p> <ul style="list-style-type: none"> <li><a href="#">HMAC Authentication (Request)</a></li> <li><a href="#">HMAC Authentication (Notify)</a></li> </ul> |
| UserData    | ans..1024 | O   | If specified at request, Paygate forwards the parameter with the payment result to the shop.                                                                                                                                                            |

|                  |                                                  |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |      |                      |           |                                                  |      |                   |
|------------------|--------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|------|----------------------|-----------|--------------------------------------------------|------|-------------------|
| PaymentPurpose   | ans..26                                          | O | Purpose of payment                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |      |                      |           |                                                  |      |                   |
| PaymentGuarantee | a..12                                            | C | <table><tr><td></td><td></td></tr><tr><td>NONE</td><td>no payment guarantee</td></tr><tr><td>VALIDATED</td><td>customer account valid, but no payment guarantee</td></tr><tr><td>FULL</td><td>payment guarantee</td></tr></table> <p>Notice: This parameter is only returned if the Status=OK.</p>                                                                                                                                                   |  |  | NONE | no payment guarantee | VALIDATED | customer account valid, but no payment guarantee | FULL | payment guarantee |
|                  |                                                  |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |      |                      |           |                                                  |      |                   |
| NONE             | no payment guarantee                             |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |      |                      |           |                                                  |      |                   |
| VALIDATED        | customer account valid, but no payment guarantee |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |      |                      |           |                                                  |      |                   |
| FULL             | payment guarantee                                |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |      |                      |           |                                                  |      |                   |
| ErrorText        | ans..128                                         | C | Detailed PPRO error message. <p>Notice: Is returned only if Status=FAILED. Use is possible only in agreement with <a href="#">Computop Helpdesk</a>.</p>                                                                                                                                                                                                                                                                                             |  |  |      |                      |           |                                                  |      |                   |
| TransactionId    | an..20                                           | O | Unique transaction number with PPRO                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |      |                      |           |                                                  |      |                   |
| Plain            | ans..50                                          | O | A single value to be set by the merchant to return some information unencrypted in response/notify, e.g. the MID. <p>"Plain"-parameter is part of encrypted "Data" in Computop Paygate and therefore protected against manipulation.</p>                                                                                                                                                                                                             |  |  |      |                      |           |                                                  |      |                   |
| Custom           | ans..1024                                        | O | "Custom"-parameter is added to the request data before encryption and is part of encrypted "Data" in Computop Paygate request. By this they are protected against manipulation by a consumer. <p>The Custom-value is added to the Computop Paygate response in plain text and the " " is replaced by a "&amp;". By this you can put a single value into Custom-parameter and get multiple key-value-pairs back in response for your own purpose.</p> |  |  |      |                      |           |                                                  |      |                   |
| QRCodeUrl        | ans..1024                                        | O | Used for Desktop flows: A URL pointing to the PNG image showing the UPI application on their mobile device.                                                                                                                                                                                                                                                                                                                                          |  |  |      |                      |           |                                                  |      |                   |
| URI              | ans..1024                                        | O | Used for mobile app flows: an intent URI that can be triggered to bring/enable them to complete the payment                                                                                                                                                                                                                                                                                                                                          |  |  |      |                      |           |                                                  |      |                   |

Return parameters for URLSuccess, URLFailure and URLNotify with UPI (PPRO)

## Credit with reference

Credits (refunds) are possible via a Server-to-Server connection. For a Credit with reference to a capture the amount of the Credit is limited to the amount of the previous capture. To carry out a credit with a reference transaction, please use the following URL:

<https://www.computop-paygate.com/credit.aspx>

**Notice:** For security reasons, Computop Paygate rejects all payment requests with formatting errors. Therefore, please use the correct data type for each parameter.

The following table describes the [encrypted payment request parameters](#):

| Key        | Format  | CND | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------|---------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MerchantID | ans..30 | M   | MerchantID, assigned by Computop. Additionally this parameter has to be passed in plain language too.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PayID      | an32    | M   | ID assigned by Paygate for the payment to be credited                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| TransID    | ans..64 | M   | TransactionID provided by you which should be unique for each payment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Amount     | n..10   | M   | Amount in the smallest currency unit (e.g. EUR Cent). Please contact the <a href="#">Computop Helpdesk</a> , if you want to capture amounts <100 (smallest currency unit).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Currency   | a3      | M   | Currency, three letters DIN / ISO 4217, e.g. EUR, USD, GBP. Please find an overview here: <a href="#">A1 Currency table</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| MAC        | an64    | M   | <p>Hash Message Authentication Code (HMAC) with SHA-256 algorithm. Details can be found here:</p> <ul style="list-style-type: none"> <li><a href="#">HMAC Authentication (Request)</a></li> <li><a href="#">HMAC Authentication (Notify)</a></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ReqID      | ans..32 | O   | <p>To avoid double payments or actions (e.g. by ETM), enter an alphanumeric value which identifies your transaction and may be assigned only once. If the transaction or action is submitted again with the same ReqID, Computop Paygate will not carry out the payment or new action, but will just return the status of the original transaction or action.</p> <p>Please note that the Computop Paygate must have a finalized transaction status for the first initial action (authentication /authorisation). This does not apply to 3-D Secure authentications that are terminated by a timeout. The 3-D Secure Timeout status does not count as a completed status in which the ReqID functionality on Paygate does not take effect. Submissions with identical ReqID for an open status will be processed regularly.</p> <p><b>Notice:</b> Please note that a ReqID is only valid for 12 month, then it gets deleted at the Paygate.</p> |

Parameters for credits via socket connections

The following table describes the result parameters with which the Computop Paygate responds to your system

 pls. be prepared to receive additional parameters at any time and do not check the order of parameters

 the key (e.g. mid, RefNr) should not be checked case-sensitive

| Key                         | Format    | CND | Description                                                                                                                                                                        |
|-----------------------------|-----------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">mid</a>         | ans..30   | M   | MerchantID, assigned by Computop                                                                                                                                                   |
| <a href="#">PayID</a>       | an32      | M   | ID assigned by Paygate for the payment, e.g. for referencing in batch files as well as for capture or credit request.                                                              |
| <a href="#">XID</a>         | an32      | M   | ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate                                                                           |
| <a href="#">TransID</a>     | ans..64   | M   | TransactionID provided by you which should be unique for each payment                                                                                                              |
| <a href="#">Status</a>      | a..50     | M   | OK ( <a href="#">URLSuccess</a> ) or FAILED ( <a href="#">URLFailure</a> )                                                                                                         |
| <a href="#">Description</a> | ans..1024 | M   | Further details in the event that payment is rejected. Please <b>do not</b> use the <b>Description</b> but the <a href="#">Code</a> parameter for the transaction status analysis! |
| <a href="#">Code</a>        | an8       | M   | Error code according to Paygate Response Codes ( <a href="#">A4 Error codes</a> )                                                                                                  |

Response parameters for credits with UPI (PPRO) via socket connections

## Batch processing via the interface

Basic information about using Batch files and about their structure can be found in the Batch Manager manual. Within batch processing not all functions are available which are usually available for the online interface.

This section describes the parameters which must be transferred within the data set (**Record**) for executing a refund for UPI (PPRO) and which information can be found within the response file about the payment status.

Following table gives an overview of all batch versions that are possible for a specific action and their specialities:

| Action | Version   | Description                                        |
|--------|-----------|----------------------------------------------------|
| Credit | 1.0 / 2.0 | Standard version without return of parameter Code  |
|        | 1.x / 2.x | with RefNr (valid for all versions other than 1.0) |

Description of the possible batch versions

The structure for UPI (PPRO) within a Batch file to be submitted is the following:

```
HEAD, <MerchantID>, <Date>, <Version>
UPI, Credit, <Amount>, <Currency>, <TransID>, (<RefNr>, ) <PayID>
FOOT, <CountRecords>, <SumAmount>
```

Example for Master MID function:

```
HEAD, [Master]MerchantID, Date, 2.x
Type, Action, [Slave]MID, Amount, Currency, TransID, Data (depends on Action)
FOOT, CountRecords, SumAmount
```

The following table describes the individual fields and values used within the data set (record) in the batch file:

| Key                      | Format  | CND | Description                                                                                                                                                                |
|--------------------------|---------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type                     | a..11   | M   | HEAD for Header, FOOT for Footer, UPI for UPI (PPRO)                                                                                                                       |
| Action                   | a..20   | M   | The parameter Action defines the type of transaction:<br><br>Credit                                                                                                        |
| <a href="#">Amount</a>   | n..10   | M   | Amount in the smallest currency unit (e.g. EUR Cent). Please contact the <a href="#">Computop Helpdesk</a> , if you want to capture amounts <100 (smallest currency unit). |
| <a href="#">Currency</a> | a3      | M   | Currency, three letters DIN / ISO 4217, e.g. EUR, USD, GBP. Please find an overview here: <a href="#">A1 Currency table</a>                                                |
| <a href="#">TransID</a>  | ans..64 | M   | TransactionID provided by you which should be unique for each payment                                                                                                      |
| <a href="#">refnr</a>    | ans..40 | O   | Merchant's unique reference number. Only characters a-zA-Z0-9,-_ are allowed.                                                                                              |
| <a href="#">PayID</a>    | an32    | M   | ID assigned by Paygate for this transaction                                                                                                                                |

Description of fields within the record for Batch files

The record area within the response file for Batch transactions looks the following way:

```
HEAD,<MerchantID>,<Date>,<Version>
UPI,Credit,<Amount>,<Currency>,<TransID>,( <RefNr>,<PayID>,<Status>,<Code>
FOOT,<CountRecords>,<SumAmount>
```

The following table describes the response parameters which the Batch Manager saves in the Record area for each transaction (standard parameters not explained here, such as <TransID> or <RefNR> and request parameters are returned unchanged and correspond to the call as specified before):

| Key                    | Format | CND | Description                                                                       |
|------------------------|--------|-----|-----------------------------------------------------------------------------------|
| Action                 | a..20  | M   | The parameter Action defines the type of transaction:<br><br>Credit               |
| <a href="#">PayID</a>  | an32   | M   | ID assigned by Paygate for this transaction                                       |
| <a href="#">Status</a> | a..50  | M   | OK ( <a href="#">URLSuccess</a> ) or FAILED ( <a href="#">URLFailure</a> )        |
| <a href="#">Code</a>   | an8    | M   | Error code according to Paygate Response Codes ( <a href="#">A4 Error codes</a> ) |

Description of result parameters within the record for Batch files