


Duitnow

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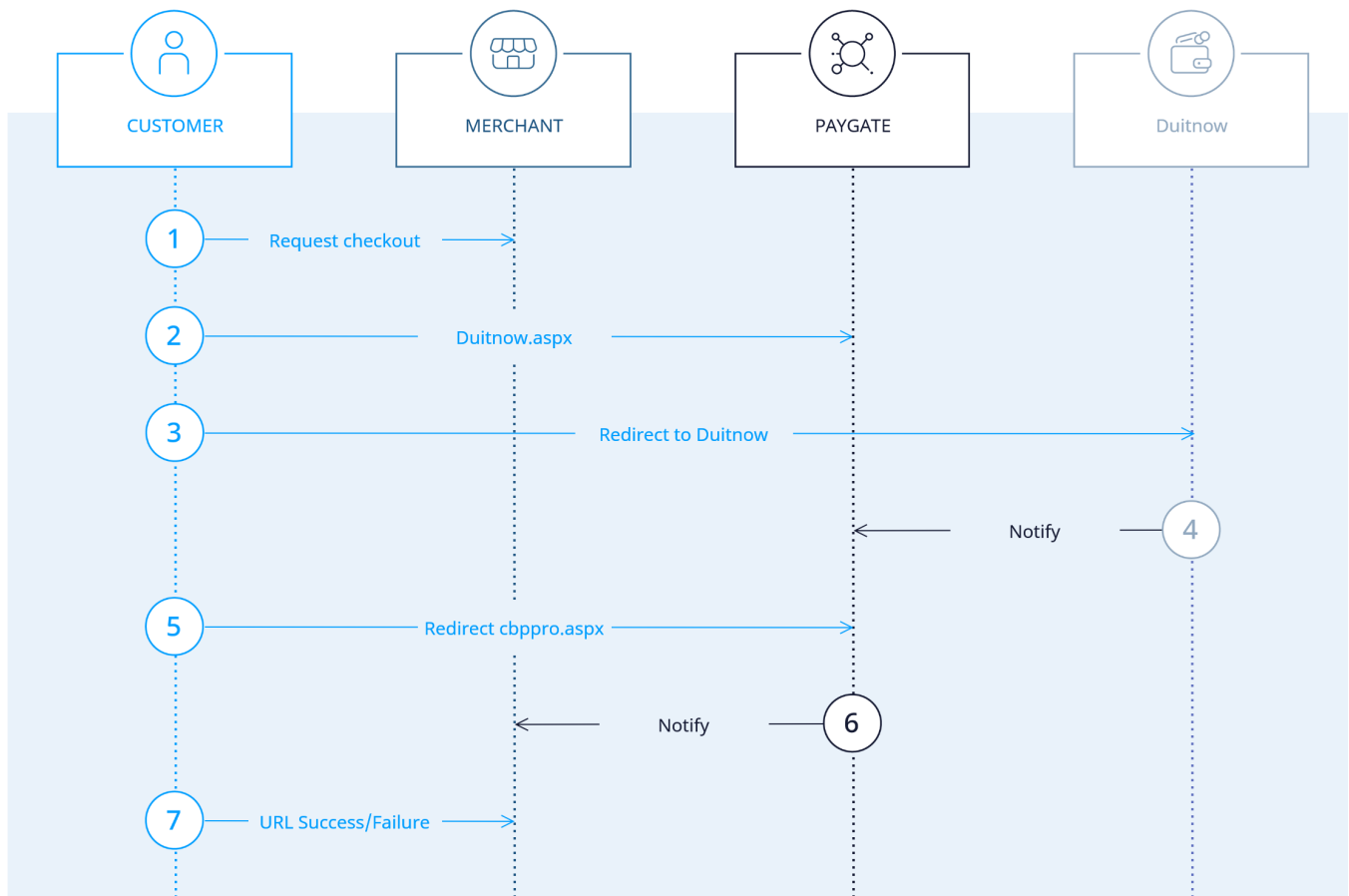
About Duitnow

General information about Duitnow

Logo	
Info	<div>Duitnow is a popular bank transfer payment method in Malaysia which is substituting FPX that will be decommissioned end of 2023.</div>
Type	Payments by Online Bank Transfer

Further information can be found on the webpage of Duitnow (<https://www.duitnow.my/>).

Process flow chart



Duitnow 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 Duitnow via form interface

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

<https://www.computop-paygate.com/duitnow.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.
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 <i>a-zA-Z0-9,-_</i> are allowed.
Amount	n..10	M	Amount in the smallest currency unit (e.g. EUR Cent). Please contact the Computop Helpdesk , if you want to capture amounts <100 (smallest currency unit).
Currency	a3	M	Currency, three digits DIN / ISO 4217. Only MYR permissible. Please find an overview here: A1 Currency table
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm. Details can be found here: <ul style="list-style-type: none">HMAC Authentication (Request)HMAC Authentication (Notify)
Order Desc	ans..768	M	Description of delivered products, services etc.
URLSuccess	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 UserData . i Common notes: <ul style="list-style-type: none">We recommend to use parameter "response=encrypt" to get an encrypted response by PaygateHowever, 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.
URLFailure	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 UserData . i Common notes: <ul style="list-style-type: none">We recommend to use parameter "response=encrypt" to get an encrypted response by PaygateHowever, 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.
Response	a7	O	Status response sent by Paygate to URLSuccess and URLFailure , should be encrypted. For this purpose, transmit Response=encrypt 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 UserData parameter instead.</p> <p>i Common notes:</p> <ul style="list-style-type: none"> We recommend to use parameter "response=encrypt" to get an encrypted response by Paygate 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.
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>Notice: 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.
AccountOwner	ans3..50	M	Name of account holder
Phone	ns..100	O	Customer's phone number. Country code followed by hash symbol # followed by rest of number. Only digits and hash allowed.
AddressCountryCode	a2	O	Country code for the account holder's invoicing address, 2 characters according to ISO 3166. Only MY allowed, defined within the code.
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 "&". 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> <p>Please find a samples here: Custom</p>
Device	a..6	O	<p>Optimizes viewing experience on customer's device.</p> <p>Possible values: WEB, WAP or APP</p> <p>Defaults to WEB if unspecified.</p>
AccountBank	an..50	O	<p>If left blank, consumer will be redirected to HPP - hosted payment page.</p> <p>When provided a direct flow is invoked. Accepted values for Duitnow banks:</p> <ul style="list-style-type: none"> maybank cimb bankislam publicbank ambank hongleong rhbbank ocbc standardchartered affinbank bankrakyat bankmuamalat kuwaitfinancehouse banksimpanannasional alliancebank uob hsbc agrobank

Key	Format	CND	Description	Beschreibung
TransID	ans..64	M	TransactionID provided by you which should be unique for each payment	Ihre eigene TransaktionsID, die für jede Zahlung eindeutig sein muss



Key	Format	CND	Description	Beschreibung
refnr	ans..40	O	Merchant's unique reference number. Only characters <i>a-zA-Z0-9,-_</i> are allowed.	Eindeutige Referenznummer des Händlers. Nur die Zeichen <i>a-zA-Z0-9,-_</i> sind erlaubt.



Key	Format	CND	Description	Beschreibung
Amount	n..10	M	Amount in the smallest currency unit (e.g. EUR Cent). Please contact the Computop Helpdesk , if you want to capture amounts <100 (smallest currency unit).	Betrag in der kleinsten Währungseinheit (z.B. EUR Cent). Bitte wenden Sie sich an den Computop Helpdesk , wenn Sie Beträge < 100 (kleinste Währungseinheit) buchen möchten.

Key	Format	CND	Description	Beschreibung
Currency	a3	M	Currency, three digits DIN / ISO 4217. Only MYR permissible. Please find an overview here: A1 Currency table	Währung, drei Zeichen DIN / ISO 4217. Nur MYR zulässig. Hier eine Übersicht: A1 Währungstabelle

Key	Format	CND	Description	Beschreibung
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm. Details can be found here: <ul style="list-style-type: none"> HMAC Authentication (Request) HMAC Authentication (Notify) 	Hash Message Authentication Code (HMAC) mit SHA-256-Algorithmus. Details finden Sie hier: <ul style="list-style-type: none"> HMAC-Authentisierung (Anfrage) HMAC-Authentisierung (Notify)

Key	Format	CND	Description	Beschreibung
OrderDesc	ans..768	M	Description of delivered products, services etc.	Beschreibung der gelieferten Waren, Dienstleistungen usw.

Key	Format	CND	Description	Beschreibung
URLSuccess	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 UserData . <div>  Common notes: <ul style="list-style-type: none"> We recommend to use parameter "response=encrypt" to get an encrypted response by Paygate 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. </div>	Vollständige URL, die das Paygate aufruft, wenn die Zahlung erfolgreich war. Die URL darf nur über Port 443 aufgerufen werden. Diese URL darf keine Parameter enthalten: Um Parameter durchzureichen nutzen Sie stattdessen den Parameter UserData . <div>  Allgemeine Hinweise: <ul style="list-style-type: none"> Wir empfehlen, den Parameter "response=encrypt" zu verwenden, um eine verschlüsselte Antwort von Paygate zu erhalten Betrüger könnten das verschlüsselte DATA-Element kopieren, welches an URLFailure gesendet wurde, und betrügerisch dasselbe DATA an URLSuccess senden. Überprüfen Sie daher unbedingt den "code"-Wert des DATA-Elements. Nur eine Antwort mit "code=00000000" sollte als erfolgreich angesehen werden. </div>

Key	Format	CND	Description	Beschreibung
URLFailure	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 UserData . <div>  Common notes: <ul style="list-style-type: none"> We recommend to use parameter "response=encrypt" to get an encrypted response by Paygate 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. </div>	Vollständige URL, die das Paygate aufruft, wenn die Zahlung gescheitert ist. Die URL darf nur über Port 443 aufgerufen werden. Diese URL darf keine Parameter enthalten: Um Parameter durchzureichen nutzen Sie stattdessen den Parameter UserData . <div>  Allgemeine Hinweise: <ul style="list-style-type: none"> Wir empfehlen, den Parameter "response=encrypt" zu verwenden, um eine verschlüsselte Antwort von Paygate zu erhalten Betrüger könnten das verschlüsselte DATA-Element kopieren, welches an URLFailure gesendet wurde, und betrügerisch dasselbe DATA an URLSuccess/URLNotify senden. Überprüfen Sie daher unbedingt den "code"-Wert des DATA-Elements. Nur eine Antwort mit "code=00000000" sollte als erfolgreich angesehen werden. </div>

Key	Format	CND	Description	Beschreibung
Response	a7	O	Status response sent by Paygate to URLSuccess and URLFailure , should be encrypted. For this purpose, transmit Response=encrypt parameter.	Die Status-Rückmeldung, die das Paygate an URLSuccess und URLFailure sendet, sollte verschlüsselt werden. Dazu übergeben Sie den Parameter Response=encrypt .

Key	Format	CND	Description	Beschreibung
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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 UserData parameter instead.</p> <p>Common notes:</p> <ul style="list-style-type: none"> We recommend to use parameter "response=encrypt" to get an encrypted response by Paygate 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. 	<p>Vollständige URL, die das Paygate aufruft, um den Shop zu benachrichtigen. Die URL darf nur über Port 443 aufgerufen werden. Sie darf keine Parameter enthalten: Nutzen Sie stattdessen den Parameter UserData.</p> <p>Allgemeine Hinweise:</p> <ul style="list-style-type: none"> Wir empfehlen, den Parameter "response=encrypt" zu verwenden, um eine verschlüsselte Antwort von Paygate zu erhalten Betrüger könnten das verschlüsselte DATA-Element kopieren, welches an URLFailure gesendet wurde, und betrügerisch dasselbe DATA an URLSuccess/URLNotify senden. Überprüfen Sie daher unbedingt den "code"-Wert des DATA-Elements. Nur eine Antwort mit "code=00000000" sollte als erfolgreich angesehen werden.
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Key	Format	CND	Description	Beschreibung
UserData	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop.	Wenn beim Aufruf angegeben, übergibt das Paygate die Parameter mit dem Zahlungsergebnis an den Shop.

Key	Format	CND	Description	Beschreibung
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>Notice: Please note that a ReqID is only valid for 12 month, then it gets deleted at the Paygate.</p>	<p>Um Doppelzahlungen (z.B. durch ETM) zu vermeiden, übergeben Sie einen alphanumerischen Wert, der Ihre Transaktion oder Aktion identifiziert und nur einmal vergeben werden darf. Falls die Transaktion oder Aktion mit derselben ReqID erneut eingereicht wird, führt das Computop Paygate keine Zahlung oder weitere Aktion aus, sondern gibt nur den Status der ursprünglichen Transaktion oder Aktion zurück.</p> <p>Bitte beachten Sie, dass das Computop Paygate für die erste initiale Aktion (Authentifizierung/Autorisierung) einen abgeschlossenen Transaktionsstatus haben muss. Dies gilt nicht für 3-D Secure Authentifizierungen, die durch einen Timeout beendet werden. Der Status 3-D Secure Timeout gilt nicht als abgeschlossener Status, bei dem ReqID-Funktionalität am Paygate nicht greift. Einreichungen mit identischer ReqID auf einen offenen Status werden regulär verarbeitet.</p> <p>Hinweis: Bitte beachten Sie, dass eine ReqID nur 12 Monate gültig ist, danach wird sie vom Paygate gelöscht.</p>

Key	Format	CND	Description	Beschreibung
SellingPoint	ans..50	O	Selling point	Verkaufsstelle

Key	Format	CND	Description	Beschreibung
Service	ans..50	O	products or service sold	verkaufte Produkte oder Dienstleistung

Key	Format	CND	Description	Beschreibung
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.	Konfigurationskanal des PPRO-Vertrags (Account und ContractID sind im System hinterlegt). Wenn vorhanden, überschreibt er den eventuell im System hinterlegten Channel.

Key	Format	CND	Description	Beschreibung
AccountOwner	ans3..50	M	Name of account holder	Name des Kontoinhabers
Phone	ns..100	O	Customer's phone number. Country code followed by hash symbol # followed by rest of number. Only digits and hash allowed.	Telefonnummer des Kunden. Ländercode gefolgt von einem Rautenzeichen #, gefolgt vom Rest der Zahl. Nur Ziffern und Rautenzeichen erlaubt.
AddressCountryCode	a2	O	Country code for the account holder's invoicing address, 2 characters according to ISO 3166. Only MY allowed, defined within the code.	Ländercode der Rechnungsadresse des Kontoinhabers zweistellig gemäß ISO 3166. Nur MY zulässig, im Code festgelegt.

Key	Format	CND	Description	Beschreibung
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>	<p>Ein einzelner Wert, der von Ihnen gesetzt werden kann, um Informationen wieder unverschlüsselt in der Antwort bzw. im Notify zurückzugeben, z.B. die MID.</p> <p>Da der "Plain"-Parameter Teil des verschlüsselten "Data" im Computop Paygate ist, ist dieser vor Manipulationen geschützt.</p>


Key	Format	CND	Description	Beschreibung
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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 "I" is replaced by a "&". 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> <p>Please find a samples here: Custom</p>	<p>Der "Custom"-Parameter wird vor der Verschlüsselung an den Aufruf angehängt und ist Teil des verschlüsselten "Data" im Computop Paygate Aufruf. Dadurch ist der Wert gegen Manipulation geschützt.</p> <p>Der Custom-Wert wird dann in Klartext an die Computop Paygate-Antwort angehängt und dabei wird "I" durch "&" ersetzt. Dadurch können Sie einen Custom-Wert übergeben und bekommen mehrere Key-Value-Paare zu Ihrer eigenen Verwendung in der Antwort zurück.</p> <p>Hier finden Sie ein Beispiel: Custom</p>
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Key	Format	CND	Description	Beschreibung
Device	a..6	O	<p>Optimizes viewing experience on customer's device.</p> <p>Possible values: WEB, WAP or APP</p> <p>Defaults to WEB if unspecified.</p>	<p>Optimiert die Anzeige auf dem Kundengerät.</p> <p>Mögliche Werte: WEB, WAP, APP</p> <p>WEB ist Standardwert, wenn nichts angegeben wurde.</p>
AccBank	an..50	O	<p>If left blank, consumer will be redirected to HPP - hosted payment page.</p> <p>When provided a direct flow is invoked. Accepted values for Duitnow banks:</p> <ul style="list-style-type: none"> • maybank • cimb • bankislam • publicbank • ambank • hongleong • rhbbank • ocbc • standardchartered • affinbank • bankrakayat • bankmuamalat • kuwaitfinancehouse • banksimpanannasional • alliancebank • uob • hsbc • agrobank 	<p>Wenn kein Wert angegeben wird, wird der Käufer auf die HPP (Hosted Payment Page) weitergeleitet.</p> <p>Wenn ein Wert angegeben wird, so wird der "Direct Flow" initiiert. Mögliche Werte für Duitnow-Banken sind:</p> <ul style="list-style-type: none"> • maybank • cimb • bankislam • publicbank • ambank • hongleong • rhbbank • ocbc • standardchartered • affinbank • bankrakayat • bankmuamalat • kuwaitfinancehouse • banksimpanannasional • alliancebank • uob • hsbc • agrobank

Parameters for payments with Duitnow

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:

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

 the key (e.g. MerchantId, 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 (URLSuccess) as well as FAILED (URLFailure)
Description	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!
Code	n8	M	Error code according to Paygate Response Codes (A4 Error codes)
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"> • HMAC Authentication (Request) • HMAC Authentication (Notify)

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><thead><tr><th>Value</th><th>Description</th></tr></thead><tbody><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></tbody></table> <p>Notice: This parameter is only returned if the Status=OK.</p>	Value	Description	NONE	no payment guarantee	VALIDATED	customer account valid, but no payment guarantee	FULL	payment guarantee
Value	Description										
NONE	no payment guarantee										
VALIDATED	customer account valid, but no payment guarantee										
FULL	payment guarantee										
ErrorText	ans..128	C	Detailed PPRO error message. Notice: Is returned only if Status=FAILED. Use is possible only in agreement with Computop Helpdesk .								
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. "Plain"-parameter is part of encrypted "Data" in Computop Paygate and therefore protected against manipulation.								
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. The Custom-value is added to the Computop Paygate response in plain text and the "]" is replaced by a "&". By this you can put a single value into Custom-parameter and get multiple key-value-pairs back in response for your own purpose. Please find a samples here: Custom								
AccBank	an..50	O	Returns the bank name selected by the customer								

Key	Format	CND	Description	Beschreibung
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.	Vom Paygate vergebene ID für die Zahlung; z.B. zur Referenzierung in Batch-Dateien sowie im Capture- oder Credit-Request.

Key	Format	CND	Description	Beschreibung
XID	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate	Vom Paygate vergebene ID für alle einzelnen Transaktionen (Autorisierung, Buchung, Gutschrift), die für eine Zahlung durchgeführt werden

Key	Format	CND	Description	Beschreibung
TransID	ans..64	M	TransactionID provided by you which should be unique for each payment	Ihre eigene TransaktionsID, die für jede Zahlung eindeutig sein muss

Key	Format	CND	Description	Beschreibung
refnr	ans..40	O	Merchant's unique reference number. Only characters a-zA-Z0-9,-_ are allowed.	Eindeutige Referenznummer des Händlers. Nur die Zeichen a-zA-Z0-9,-_ sind erlaubt.

Key	Format	CND	Description	Beschreibung
Status	a..50	M	OK or AUTHORIZE_REQUEST (URLSuccess) as well as FAILED (URLFailure)	OK oder AUTHORIZE_REQUEST (URLSuccess) sowie FAILED (URLFailure)

Key	Format	CND	Description	Beschreibung
Description	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!	Nähere Beschreibung bei Ablehnung der Zahlung. Bitte nutzen Sie nicht den Parameter Description , sondern Code für die Auswertung des Transaktionsstatus!

Key	Format	CND	Description	Beschreibung
Code	n8	M	Error code according to Paygate Response Codes (A4 Error codes)	Fehlercode gemäß Paygate Antwort-Codes (A4 Fehlercodes)

Key	Format	CND	Description	Beschreibung
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm. Details can be found here: <ul style="list-style-type: none"> HMAC Authentication (Request) HMAC Authentication (Notify) 	Hash Message Authentication Code (HMAC) mit SHA-256-Algorithmus. Details finden Sie hier: <ul style="list-style-type: none"> HMAC-Authentisierung (Anfrage) HMAC-Authentisierung (Notify)

Key	Format	CND	Description	Beschreibung
UserData	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop.	Wenn beim Aufruf angegeben, übergibt das Paygate die Parameter mit dem Zahlungsergebnis an den Shop.

Key	Format	CND	Description	Beschreibung
PaymentPurpose	ans..26	O	Purpose of payment	Zahlungszweck

Key	Format	CND	Description		Beschreibung	
PaymentGuarantee	a..12	C	Value	Description	Wert	Beschreibung
			NONE	no payment guarantee	NONE	keine Zahlungsgarantie
			VALIDATED	customer account valid, but no payment guarantee	VALIDATED	Kundenkonto valide, aber keine Zahlungsgarantie
			FULL	payment guarantee	FULL	Zahlungsgarantie
			Notice: This parameter is only returned if the Status=OK.		Hinweis: Dieser Parameter wird nur zurückgegeben, falls der Status=OK ist.	

Key	Format	CND	Description	Beschreibung
ErrorText	ans..128	C	Detailed PPRO error message. Notice: Is returned only if Status=FAILED. Use is possible only in agreement with Computop Helpdesk .	Detaillierte PPRO Fehlermeldung. Hinweis: Wird nur bei Status=FAILED zurückgegeben. Nutzung nur in Abstimmung mit dem Computop Helpdesk möglich.

Key	Format	CND	Description	Beschreibung
TransactionId	an..20	O	Unique transaction number with PPRO	Eindeutige Transaktionsnummer bei PPRO

Key	Format	CND	Description	Beschreibung
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. "Plain"-parameter is part of encrypted "Data" in Computop Paygate and therefore protected against manipulation.	Ein einzelner Wert, der von Ihnen gesetzt werden kann, um Informationen wieder unverschlüsselt in der Antwort bzw. im Notify zurückzugeben, z.B. die MID. Da der "Plain"-Parameter Teil des verschlüsselten "Data" im Computop Paygate ist, ist dieser vor Manipulationen geschützt.

Key	Format	CND	Description	Beschreibung
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. The Custom-value is added to the Computop Paygate response in plain text and the " " is replaced by a "&". By this you can put a single value into Custom-parameter and get multiple key-value-pairs back in response for your own purpose. Please find a samples here: Custom	Der "Custom"-Parameter wird vor der Verschlüsselung an den Aufruf angehängt und ist Teil des verschlüsselten "Data" im Computop Paygate Aufruf. Dadurch ist der Wert gegen Manipulation geschützt. Der Custom-Wert wird dann in Klartext an die Computop Paygate-Antwort angehängt und dabei wird " " durch "&" ersetzt. Dadurch können Sie einen Custom-Wert übergeben und bekommen mehrere Key-Value-Paare zu Ihrer eigenen Verwendung in der Antwort zurück. Hier finden Sie ein Beispiel: Custom

Key	Format	CND	Description	Beschreibung
AccBank	an..50	O	Returns the bank name selected by the customer	Name der vom Käufer ausgewählten Bank

Return parameters for URLSuccess, URLFailure and URLNotify with Duitnow

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 Computop Helpdesk , if you want to capture amounts <100 (smallest currency unit).
Currency	a3	M	Currency, three digits DIN / ISO 4217, e.g. EUR, USD, GBP. Please find an overview here: A1 Currency table
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm. Details can be found here: <ul style="list-style-type: none"> HMAC Authentication (Request) HMAC Authentication (Notify)
ReqID	ans..32	O	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. 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. Notice: Please note that a ReqID is only valid for 12 month, then it gets deleted at the Paygate.

Key	Format	CND	Description	Beschreibung
PayID	an32	M	ID assigned by Paygate for the payment to be credited	Vom Paygate vergebene ID für die gutzuschreibende Zahlung

Key	Format	CND	Description	Beschreibung
TransID	ans..64	M	TransactionID provided by you which should be unique for each payment	Ihre eigene TransaktionsID, die für jede Zahlung eindeutig sein muss

Key	Format	CND	Description	Beschreibung
Amount	n..10	M	Amount in the smallest currency unit (e.g. EUR Cent). Please contact the Computop Helpdesk , if you want to capture amounts <100 (smallest currency unit).	Betrag in der kleinsten Währungseinheit (z.B. EUR Cent). Bitte wenden Sie sich an den Computop Helpdesk , wenn Sie Beträge < 100 (kleinste Währungseinheit) buchen möchten.


Key	Format	CND	Description	Beschreibung
Currency	a3	M	Currency, three digits DIN / ISO 4217, e.g. EUR, USD, GBP. Please find an overview here: A1 Currency table	Währung, drei Zeichen DIN / ISO 4217, z.B. EUR, USD, GBP. Hier eine Übersicht: A1 Währungstabelle


Key	Format	CND	Description	Beschreibung
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm. Details can be found here: <ul style="list-style-type: none"> HMAC Authentication (Request) HMAC Authentication (Notify) 	Hash Message Authentication Code (HMAC) mit SHA-256-Algorithmus. Details finden Sie hier: <ul style="list-style-type: none"> HMAC-Authentisierung (Anfrage) HMAC-Authentisierung (Notify)

Key	Format	CND	Description	Beschreibung
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>Notice: Please note that a ReqID is only valid for 12 month, then it gets deleted at the Paygate.</p>	<p>Um Doppelzahlungen (z.B. durch ETM) zu vermeiden, übergeben Sie einen alphanumerischen Wert, der Ihre Transaktion oder Aktion identifiziert und nur einmal vergeben werden darf. Falls die Transaktion oder Aktion mit derselben ReqID erneut eingereicht wird, führt das Computop Paygate keine Zahlung oder weitere Aktion aus, sondern gibt nur den Status der ursprünglichen Transaktion oder Aktion zurück.</p> <p>Bitte beachten Sie, dass das Computop Paygate für die erste initiale Aktion (Authentifizierung/Autorisierung) einen abgeschlossenen Transaktionsstatus haben muss. Dies gilt nicht für 3-D Secure Authentifizierungen, die durch einem Timeout beendet werden. Der Status 3-D Secure Timeout gilt nicht als abgeschlossener Status, bei dem ReqID-Funktionalität am Paygate nicht greift. Einreichungen mit identischer ReqID auf einen offenen Status werden regulär verarbeitet.</p> <p>Hinweis: Bitte beachten Sie, dass eine ReqID nur 12 Monate gültig ist, danach wird sie vom Paygate gelöscht.</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. MerchantId, 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
Status	a..50	M	OK (URLSuccess) or FAILED (URLFailure)
Description	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!
Code	n8	M	Error code according to Paygate Response Codes (A4 Error codes)

Key	Format	CND	Description	Beschreibung
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.	Vom Paygate vergebene ID für die Zahlung; z.B. zur Referenzierung in Batch-Dateien sowie im Capture- oder Credit-Request.

Key	Format	CND	Description	Beschreibung
XID	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate	Vom Paygate vergebene ID für alle einzelnen Transaktionen (Autorisierung, Buchung, Gutschrift), die für eine Zahlung durchgeführt werden

Key	Format	CND	Description	Beschreibung
TransID	ans..64	M	TransactionID provided by you which should be unique for each payment	Ihre eigene TransaktionsID, die für jede Zahlung eindeutig sein muss

Key	Format	CND	Description	Beschreibung
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Status	a..50	M	OK (URLSuccess) or FAILED (URLFailure)	OK (URLSuccess) oder FAILED (URLFailure)
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Key	Format	CND	Description	Beschreibung
Description	ans..1024	M	Further details in the event that payment is rejected. Please d o not use the Description but the Code parameter for the transaction status analysis!	Nähere Beschreibung bei Ablehnung der Zahlung. Bitte nutzen Sie nicht den Parameter Description , sondern Code für die Auswertung des Transaktionsstatus!

Key	Format	CND	Description	Beschreibung
Code	n8	M	Error code according to Paygate Response Codes (A4 Error codes)	Fehlercode gemäß Paygate Antwort-Codes (A4 Fehlercodes)

Response parameters for credits with Duitnow 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 Duitnow 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 Duitnow within a Batch file to be submitted is the following:

```
HEAD,<MerchantID>,<Date>,<Version>
Duitnow,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, Duitnow for Duitnow
Action	a..20	M	The parameter Action defines the type of transaction: Credit
Amount	n..10	M	Amount in the smallest currency unit (e.g. EUR Cent). Please contact the Computop Helpdesk , if you want to capture amounts <100 (smallest currency unit).
Currency	a3	M	Currency, three digits DIN / ISO 4217, e.g. EUR, USD, GBP. Please find an overview here: A1 Currency table
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 <i>a-zA-Z0-9,-_</i> are allowed.
PayID	an32	M	ID assigned by Paygate for this transaction

Key	Format	CND	Description	Beschreibung
Amount	n..10	M	Amount in the smallest currency unit (e.g. EUR Cent). Please contact the Computop Helpdesk , if you want to capture amounts <100 (smallest currency unit).	Betrag in der kleinsten Währungseinheit (z.B. EUR Cent). Bitte wenden Sie sich an den Computop Helpdesk , wenn Sie Beträge < 100 (kleinste Währungseinheit) buchen möchten.

Key	Format	CND	Description	Beschreibung
Currency	a3	M	Currency, three digits DIN / ISO 4217, e.g. EUR, USD, GBP. Please find an overview here: A1 Currency table	Währung, drei Zeichen DIN / ISO 4217, z.B. EUR, USD, GBP. Hier eine Übersicht: A1 Währungstabelle

Key	Format	CND	Description	Beschreibung
TransID	ans..64	M	TransactionID provided by you which should be unique for each payment	Ihre eigene TransaktionsID, die für jede Zahlung eindeutig sein muss

Key	Format	CND	Description	Beschreibung
refnr	ans..40	O	Merchant's unique reference number. Only characters a-zA-Z0-9,-_ are allowed.	Eindeutige Referenznummer des Händlers. Nur die Zeichen a-zA-Z0-9,-_ sind erlaubt.

Key	Format	CND	Description	Beschreibung
PayID	an32	M	ID assigned by Paygate for this transaction	Vom Paygate vergebene ID für diese Transaktion

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>
Duitnow,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: Credit
PayID	an32	M	ID assigned by Paygate for this transaction
Status	a..50	M	OK (URLSuccess) or FAILED (URLFailure)
Code	n8	M	Error code according to Paygate Response Codes (A4 Error codes)

Key	Format	CND	Description	Beschreibung
PayID	an32	M	ID assigned by Paygate for this transaction	Vom Paygate vergebene ID für diese Transaktion

Key	Format	CND	Description	Beschreibung
Status	a..50	M	OK (URLSuccess) or FAILED (URLFailure)	OK (URLSuccess) oder FAILED (URLFailure)

Key	Format	CND	Description	Beschreibung
Code	n8	M	Error code according to Paygate Response Codes (A4 Error codes)	Fehlercode gemäß Paygate Antwort-Codes (A4 Fehlercodes)

Description of result parameters within the record for Batch files