ComGate Payments HTTP-POST Protocol Specification

Introduction

Protocol Version: 1.0 Last update: 2017/04/25

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Technical contact ComGate Payments

Email: support@comgate.cz GSM: +420 737 264 610

Glossary

Payer	End user who visits merchant's web site, orders goods and/or service and pays for it
Merchant	Merchant operates web site where Payers order goods and/or service
Service, Product	ePlatba, ePlatba+, CreditCard payment, mPlatba, Premium SMS
Payment provider	Mobile operator in case of web billing (mobile payment), bank in case of credit card
Payment method	Web billing (mobile payment), credit card, bank payment
ComGate	Payment solution integrating more payment methods for merchants
Payments	

Document purpose

ComGate Payments system provides different payment methods to the Merchant. The document shows how to integrate merchant's web site with ComGate Payments system. The intended audience is software developer.

Functionality

ComGate Payments provides payment solution for Merchants' websites and business applications. Communication between Merchant and ComGate Payments is based on HTTPS protocol standard. While making payment, Payer is redirected from Merchant's website to ComGate Payments. After making payment Merchant is (optionaly) informed about payment result and Payer is redirected back to Merchant's site using standard HTTP redirect.

List of supported TLS ciphers is similar to this one:

https://github.com/cloudflare/sslconfig/blob/master/conf

Payer view

The payment process from the Payer's point of view

- 1. Payer chooses goods or service on Merchant's website
- 2. Payer clicks "Pay" button on Merchant's site
- 3. Payer is redirected to ComGate Payments instruction page and fills in remaining required fields. If all required fields were provided by Merchant the ComGate Payments instruction page is skipped.
- 4. ComGate Payments redirects Payer's browser to Payment provider system according to chosen payment method and its parameters (e.g. credit card bank, web billing mobile operator etc.)

- 5. Payer pays required amount using Payment provider's interface and is redirected back to Merchant's site. The redirect is made transparently through ComGate Payments system.
- 6. If the payment was successful, the Merchant provides the goods/service to the Payer.

You can try ComGate Payments demo that is available at http://demo.comgate.cz

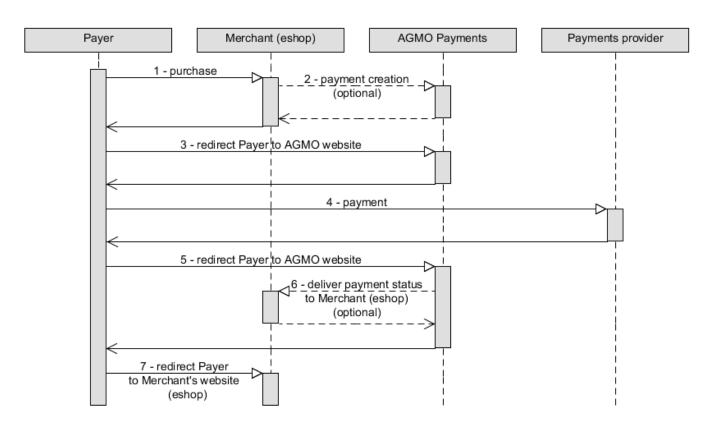
Merchant view

ComGate Payments offer two ways to choose payment methods:

- a) Payer uses Merchant's system to choose payment method e-shop offers available methods
- b) Payer uses ComGate Payments system to choose payment

Merchant can get payment result information from three sources

- a) Payment transaction status received on background using communication protocol
- b) Payment notification that is sent by e-mail
- c) Using web application at https://portal.comgate.cz/



Communication protocol

1. Payment creation – optional

This step is optional but it is recommended to implement it in every case you need to be sure that the payment is created secure way and without possible Payer intervention. It also ensure unique linkage of payment to order.

Omitting this step is applicable only if e-shop do not need a system to identify each payment, but just needs an information that anyone paid any amount. For classic e-shops, where you pay for a specific good is skipping this step naccessible .



Merchant uses HTTP request to create payment transaction. Payment attributes including unique payment reference number are sent as POST parameters by HTTP protocol. Communication is only between Merchant's server and server of ComGate Payments and is invisible to Payer. So Payer is not able to change payment parameters. ComGate Payments server responds by sending unique payment transaction identifier – Transaction ID (ComGate Payments identifier) and URL to redirect Payer to.

Example of payment transaction creation on background - HTTP request:

```
POST /v1.0/create HTTP/1.1
Host: payments.comgate.cz
Content-Type: application/x-www-form-urlencoded; charset=utf-8
```

merchant_merchant_com&price=10000&curr=CZK&label=Beatles%20-%20Help!&refId=2010102600&cat=DIGITAL&method=ALL
&prepareOnly=true&secret=ZXhhbXBsZS5jb206QUJDeH16

Example of payment transaction creation on background – HTTP response:

```
HTTP/1.1 200 OK
Content-Type: application/x-www-form-urlencoded; charset=utf-8
code=0&message=OK&transId=AB12-EF34-IJ56&redirect=
https%3A%2F%2Fpayments.comgate.cz%2Fclient%2Finstructions%2F%3Fid%3DABCDEFGHIJ
```

Communication between Merchant's system and system ComGate Payments is secured using password and IP whitelist (access is allowed from predefined Merchants IP's only). It is strongly suggested to use HTTPS protocol that is safe to not reveal password even if communication is intercepted. Password is sent as HTTP POST parameter (not GET parameter) for not to be stored in communication logs of webservers.

2. Redirection to ComGate Payments webserver

If previous optional, but more securing step is used and payment transaction is already created that way, it's Merchant's webserver task to redirect Payer to URL address that was returned in ComGate Payments system's HTTP response.

If the first optional step is omitted, Payment transaction is created after Payer is redirected from Merchant's server to ComGate Payments server or by posting web form from Merchant's website to ComGate Payments server. Payment attributes, including unique payment reference number are sent using HTTP protocol as POST or GET parameters.

Example of Payment transaction creation by redirect (web form submit) - HTTP request:

```
POST /v1.0/create HTTP/1.1
Host: payments.comgate.cz
Content-Type: application/x-www-form-urlencoded; charset=utf-8
merchant=merchant com&price=10000&curr=CZK&label=Beatles%20-%20Help!&refId=2010102600&cat=DIGITAL&method=ALL
```

This communication is not secured so it is possible for Payer to change payment parameters if you nacces the first optional step.

3. Payment transaction status handover on background – optional

Implementing this part ensures automatic transmission of status of each payment transaction directly to your server at the moment the final status is known. If you are satisfied with e-mail notifications about payments and possibility to use ComGate Payments website interface to see information about payments, you can skip this step.

Payment status is delivered to Merchant using HTTP request from ComGate Payments system directly to Merchant's server. Identifiers and payment status are sent as POST parameters using HTTP protocol. This is background communication so it is naccessible to Payer which is unable to fraud it.

Payer is redirected back to Merchant's website while Payment transaction identifiers are sent as GET parameters of HTTP protocol. Any Goods or service providing must be based on the background payment status handover. It is not safe to rely on the Merchant's website URL to which the Client is redirected because it is really easy to fraud.

Example of payment transaction status handover on background - HTTP request

```
POST /handler.php HTTP/1.1
Host: eshop.com
Content-Type: application/x-www-form-urlencoded; charset=utf-8
```

merchant=merchant_com&test=false&price=10000&curr=CZK&label=Beatles%20-%20Help!&refId=2010102600
&cat=DIGITAL&method=MPAY_CZ&email=info%40customer.com&phone=%2B420123456789&transId=AB12-EF34-IJ56
&secret=ZXhhbXBsZS5jb206QUJDeH16&status=PAID

Example of payment transaction status handover on background – HTTP response

HTTP/1.1 200 OK Content-Type: application/x-www-form-urlencoded; charset=utf-8

code=0&message=OK

Communication between Merchant's system and system ComGate Payments is secured using password and IP whitelist. Access has to be allowed from range of ComGate Payments IP addresses only. This range is defined as 62.77.114.16/28 and 89.185.236.55/32. It is strongly suggested to use HTTPS protocol that is safe to not reveal password even if communication is intercepted. Password is sent as HTTP POST parameter (not GET parameter) for not to be stored in communication logs of webservers.

Merchant assures that the goods (service) provided in the scope of payment transaction (identified by unique transaction ID) is provided only once. Even in case of multiple background calls with the same transaction ID. It's Merchant's own responsibility to somehow register, using his system (database), that the goods (service) were already provided.

Merchant is also responsible for providing right goods (service) only to Payer who made the payment. It means that Merchant registers linkage between transaction ID and Payer ID in his system (database) after authentication of Payer on Merchant's website. Another way is storing any unique identifier in session (cookie) of Payer's browser and pairing this identifier to right transaction ID.

4. Redirection of Payer to Merchant's website

Based on payment transaction status, Payer is redirected to one of the tree URLs. The URLs are defined by Merchant on service activation. Payment transaction identifiers are sent as GET parameters by HTTP protocol. Merchant's system must be able to deal with two basic situations:

- The result of payment is not yet known at the time of redirection of Payer back to Merchant's website. Payment is at the PENDING status. This is the common situation and Merchant can't present this status as a failure. System is either waiting for crediting payment to bank account or to confirmation from Payment provider, ie. bank or mobile operator. Final payment result is communicated to Merchant later. It is done either by sending result of payment by background server communication or by sending him email. Next source of payment status information is ComGate Payments website.
- If the ComGate Payments system knows the result of payment instantly, Payer is redirected to the URL (PAID or CANCELLED). If Merchant implemented handover of payment transaction on background, redirection to Merchant's website is made after the successful handover of payment transaction result on background. It is not possible to provide ordered goods or service to Payer just based on URL to which is returned. It is easy to fraud payment transaction result this way by making browser to request to changed URL. Merchant have to implement receive payment transaction result on background or manually check at ComGate Payments website that the payment was really made.

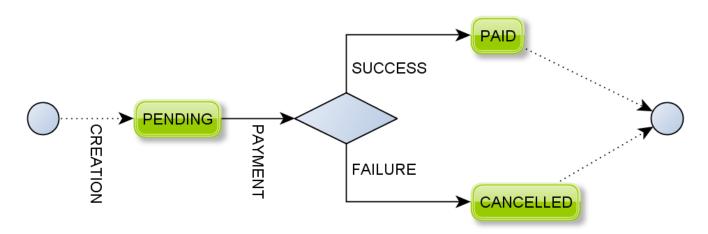
Example of redirection of Payer to Merchant's website - HTTP request

GET /result_ok.php?refId=2010102600&transId=AB12-EF34-IJ56 HTTP/1.1 Host: eshop.com

Payment states

- PENDING payment transaction was created, final result of payment is not yet known.
- PAID Payer successfully realized payment it is possible to deliver goods, provide service.
- CANCELLED payment was not realized, goods or service is not provided. At exceptional cases it is
 possible for this state to turn to PAID state.

Only the payment transaction at state PAID can be considered as really paid. PENDING state is not final and it is possible to switch to state CANCELLED.

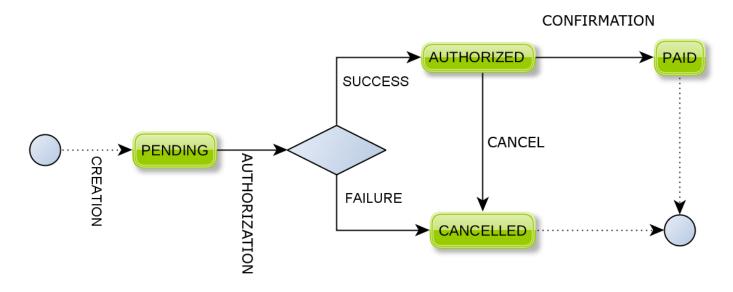


Preauthorization

ComGate Payments payment system allows creating, submitting and canceling preauthorization of card payments.

Payment creation has standard process, only parameter preauth=true must be specified. After that, payer passes the same process as in case of normal payment. After entering card detail to the payment gateway, relevant amount is blocked on his credit card. Depending on result of this operation, payment passes either to special state AUTHORIZED, or in case of rejection to state CANCELLED. This state is reported in background by usual process described above.

To actually deduct the money, Client calls function for submitting preauthorization. If money are supposed to be released (eg. it is not possible to fulfill conditions of purchase contract), client calls function for cancelling preauthorization.





Recurring payments

ComGate Payments system also allows entering recurring payments. Recurring payments allow payer to make quick payments with one click. First (initial) payment is a standard process with redirection to the payment gateway; the following payments are being done completely on background. The system allows payer to pay within seconds without need to fill in his credit card information.

This functionality is available on request for clients when accepting card payments via providers ČSOB pr Česká spořitelna. In case of recurring payments, it is necessary to establish initial payment at first. This payment is a standard payment with initRecurring parameter set to "true". Subsequent recurring payments are established with new method and are bound to initial payment by ComGate ID.

This ID must be tied to a particular payer in client system!

After establishing recurring payment, payer is not redirected to payment gateway, because the whole process runs in background. Payment's state is passed to clients system and then shown to payer.

Verification transactions

If the Client wants to use recurring payments in the future, but wants Payer to "register" now, he can use verification transaction. If parameter "verification" is set to "true", standard initial transaction is established, but is automatically refunded after being paid.

In terms of recurring payments, this transaction appears to be standard initial transaction; subsequent payments are bound to verification transaction.

Notice! Because of bank limitations, it is not possible to combine preauthorization and recurring payments.

Service Activation

Merchant is supposed to implement required functionality at his side (integrates communication with ComGate Payments system to his website). He gets needed access data for ComGate Payments system. He is supposed to tests his implementation using ComGate Payments testing interface and finally confirm to ComGate Payments a.s. that his system is ready. After successful Merchant's system check his ComGate Payments system account is switched to production mode.

Information provided from Merchant

During the integration process Merchant provides:

- URL address of Merchant's website (e-shop, service offer...)
- Chosen variant for basic payment
- · Chosen variant for payment result handover
- Phone number and E-Mail address of Merchant's hotline
- E-mail address for notifications about payments
- Information (yes/no), if Merchant wants ComGate Payments system to send email notifications about payments to Payers
- Merchant's URL address for
 - redirection in case of successful payment (payment state PAID)
 - o redirection in case of failure (payment state CANCELLED)
 - redirection in case of unknown result (payment state PENDING)
 - Note: all three URLs can contain string "\${id}", which is replaced by unique identifier (code) of payment in ComGate Payments and string "\${refId}", which is replaced by payment reference in Merchant's system given at payment transaction creation.
 - handover of payment transaction result on background (if Merchant's want to implement it).

• Merchant's IP addresses that will be used for making connections to ComGate Payments system to create payment transaction on background

Informations provided to Merchant

During the integration process merchant will be provided this data:

- MerchantID alphanumeric Merchant identifier
- Password used for HTTP communication on background
- Password used for access to listings of testing payments
- List of currencies, categories and methods which are allowed for the merchant

Service URL

https://payments.comgate.cz/v1.0/create

List of supported TLS ciphers is similar to this one:

https://github.com/cloudflare/sslconfig/blob/master/conf

Testing

Testing of implementation is possible by setting parameter "test" to value "true" at payment creation. For testing Merchant's system functionality Payer redirection to bank is switched of. Instead for this purpose we provide virtual provider (bank) where Payer only chooses to pay or not to pay.

List of testing payments, e-shop connection settings and communication logs are available here:

https://portal.comgate.cz/

Access data is sent within welcome e-mail.

Merchant is responsible for thorough testing of his system.

Production

Production online statistics, payments listing, hotline is here:

https://portal.comgate.cz/ (available while in production state, access data are sent within welcome e-mail.)

Even if in production it is still possible to utilize testing environment. Testing and commercial payments are distinguished by parameter "test" at payment creation.

Protocol specification

Payment transaction creation

Payment transaction creation in ComGate Payments system. It is possible to choose payment method by your system or let the Payer to choose one later. It is possible to do it both ways for every single payment transaction. If the payment method or some other parameters are not set by your system, Payer can set such parameters himself. Payer can do it on payment instructions page of ComGate Payments system.

If parameter initRecurring is set to true, initial recurring transaction is set. After that it is possible to create recurring payments that will be linked with this initial transaction's ComGate ID. Response parameters do not change in this case. Creation of initial transaction is possible only for Clients, who have this service enabled and accept card payments via providers ČSOB or Česká spořitelna.

Parameter "verification" is related with initial transactions. When set to "true", verification transaction is established. Once the payment is paid, it will be automatically refunded. It is not necessary to manually refund this payment. Otherwise this verification payments works the same as standard initial payment.

Because of bank limitations, it is not possible to combine preauthorization and recurring payments.

Access is protected by IP addresses validation and integrity of the transmitted data is secured using https protocol.

Required:

N – optional parameter

Y – required parameter for HTTP request

(Y) – required parameter for HTTP request, only for certain payment methods

N, Y/N – parameter is optional for HTTP request but require in ComGate Payments which request it from Payer

parameter	type	required	description			
merchant	string	Y	Merchant identifier			
test	boolean	N	The "true" means to create payment as testing, "false" means create payment transaction as production one. If missing, payment transaction is set as production.			
country	string	N	country code ("CZ", "SK", "PL", "ALL"), default value is "CZ", this parameter is used to limit payment methods on ComGate payment gateway			
price	integer	Y	 Product price in cents or pennies. Must be min. 10 CZK (including), max. unlimited, except Payment method MPAY_CZ, where is the limit for the provider: O2: min. 10 CZK (including), max. 1500 CZK (including) T-Mobile: min. 5 CZK (including), max. 1500 CZK (including) Vodafone: min. 1 CZK (including), max. 1200 CZK (including) For MPAY_PL payment method the list of acceptable price levels is clearly defined and cannot be entered amount of own choice. For more information, contact the ComGate Payments customer service. 			
curr	string	Y	Currency code – ISO 4217. Usually "CZK"			
label	string	Y	Short description of product displayed to Payer (1-16 characters)			
refld	string	Y	Referral payment ID from Merchant's system (uniqueness is not required, it's possible to create more payment transactions with the same "refld")			
payerId	string	Ν	The Payer identifier from Merchant's system. The identifier must			

Request parameters

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			be verified for example by Payer logging to the Merchant's system using a password, otherwise leave the parameter blank. It is used when paying with ČS card, where ČS payment gateway stores the card numbers, so the next payment Payer need not re-enter the card number. This feature must be enabled for a particular Merchant in the ČS system.
vatPL	string	(Y)	Identifier of VAT rate in Poland for the payment. Parameter is required only for "MPAY_PL" payment method.
cat	string	(Y)	Identifier of payment category. Attribute must have value from list given on integration process. Usually "PHYSICAL". Parameter is required only for "MPAY_CZ" and "SMS_CZ" payment methods.
method	string	Y	Payment method, must be one from the list of payment methods, value "ALL" in case it's up to Payer to choose it or simple expression (example and description following)
account	string	N	Identifier of Merchant's bank account to which ComGate Payments transfers the money. If the parameter is empty, the default Merchant's account will be used. List of accounts is on https://portal.comgate.cz/
email	string	Y	Payer's e-mail (for reclamation purposes)
phone	string	N,Y/N	Payers mobile number (for reclamation purposes)
name	string	N	Product identifier – attribute is helpful for search in ComGate
lang	string	N	Payments - statistics of payments page Language code by (ISO 639-1). ComGate Payments interface will use this language for communication with Payer. Valid values from list ("cs", "sk", "en", "pl"), default value is "cs"
prepareOnly	boolean	N	Set it to "true" for payment transaction creation on background. For payment creation by redirection or web form post set it to "false" or not set it at all.
secret	string	N	For payment transaction creation on background set this attribute to password for background communication. For payment creation by redirection or web form post leave it empty or not set it at all.
preauth	boolean	N	If you want to preauthorize card payment, set this parameter to "true". In case of regular payment set to "false" or keep blank. Only for card payments.
initRecurring	boolean	N	Parameter for creating initial transaction for recurring payments. Only for Clients, who have this service enable
embedded	boolean	N	This parameter is used only in combination with method CARD_CZ_CSOB_2. Value "true" ensures that ČSOB payment gateway will be displayed in iframe. To view standard gateway, leave parameter blank or enter value "false". This functionality is a special permit.

Response parameters

ComGate Payments server responds only in case of payment transaction creation on background. All parameters are urlencoded. It's the same in case of HTTP request. If the payment transaction is created by redirection or web form post (parameter prepareOnly is "false") ComGate Payments system redirects the Payer to appropriate URL or displays error message.

parametr	typ	required	description
code	integer	Υ	return code of method and error description:
message	string	Y	Result code and error description: 0 OK 1100 Unknown error

			1101 Interface URL for pending transactions is missing
			1102 Requested language is not supported
			1103 Unexpected count of specified methods
			1104 Cannot find payment update
			1200 DB error
			1301 Unknown merchant
			1303 Interface URLs or language is missing
			1304 Invalid category specified
			1305 Product label is missing
			1306 No valid method specified
			1308 Specified payment option is not enabled for you
			1309 Invalid payment amount
			1310 Unknown currency of payment price
			1311 Invalid bank account identifier
			1316 Recurring payments are not enabled for Client
			1317 Invalid method – does not support recurring payments
			1319 Can't settle payment, provider error
			1399 Unexpected result from DB method
			1400 Request error
			1500 Unexpected error
transId	string	N	Alphanumerical unique identifier of transaction - transaction Id. Will be
	Ŭ		shown to Payer while making payment.
redirect	string	N	URL to redirect Payer to start payment

Example of Payment transaction creation by redirect (web form submit) – HTTP request

POST /v1.0/create HTTP/1.1 Host: payments.comgate.cz Content-Type: application/x-www-form-urlencoded; charset=utf-8

merchant=merchant com&price=10000&curr=CZK&label=Beatles%20-%20Help!&refId=2010102600&cat=DIGITAL&method=ALL

Example of Payment transaction creation on background - HTTP request:



merchant_merchant_com&price=10000&curr=CZK&label=Beatles%20-%20Help!&refId=2010102600&cat=DIGITAL&method=ALL
&prepareOnly=true&secret=ZXhhbXBsZS5jb206QUJDeH16

Example of Payment transaction creation on background - HTTP response:

HTTP/1.1 200 OK
Content-Type: application/x-www-form-urlencoded; charset=utf-8
code=0&message=OK&transId=AB12-EF34-IJ56&redirect=

https%3A%2F%2Fpayments.comgate.cz%2Fclient%2Finstructions%2F%3Fid%3DABCDEFGHIJ

Self-selection of methods

ComGate Payment Gateway allows Client's own choice of payment methods through a simple expression sent in "method" parameter. This expression is always evaluated on the basis of Client's allowed methods.

Permitted method identifier delimiters are "+" for imputation method and "-" for subtraction method to/from selection.

Example:

BANK_ALL + CARD_CZ_CS – BANK_CZ_KB = all bank methods with card payments without ePlatba+ for Komerční banka clients

BANK_CZ_CS_P + BANK_CZ_KB + BANK_CZ_RB = only ePlatba+ from Česká spořitelna, Komerční banka and Reiffeisen Bank clients (only these 3 as opposite for BANK_ALL, that would select all bank methods from Client's methods)

Preselection of payment method

ComGate Payment Gateway allows Payer to have pre-selected one method when accessing gateway. The only thing to achieve this behavior is to redirect Payer to gateway with received redirect URL that in addition contains parameter "method" with selected method.

Redirect URL could look like this example:

https://payments.comgate.cz/client/instructions/index?id=ABCDEFGHIJ&method=CARD_CZ_CS

After redirecting to gateway, Payer would have already checked method CARD_CZ_CS, although he can still choose another method.

This function is useful only for payments created with methods BANK, BANK_ALL or with own methods selection.

ČSOB gateway iframe

ČSOB payment gateway enables optimalization for iframe. This functionality is useful if you don't want to redirect Payer to payment gateway, but display it in your own system.

This functionality is only available for method CARD_CZ_CSOB_2 and Client must apply for permit.

Recurring payments – creation of second and subsequent payments

Creation of recurring payments to ComGate Payments system is only possible when accepting card payments via provider Česká spořitelna or ČSOB and Clients, who have this functionality enabled. First (initial) payment is made the standard way (see Payment transaction creation).

Process of setting second and subsequent payment runs completely on background, these payments are tied to initial through ComGate ID of initial payment. This ID must be in request parameter initRecurringId.

Status of payment is shown to payer in client system as result of the process.

Request parameters

parameter	type	required	description
merchant	string	Y	Merchant identifier
test	boolean	N	The "true" means to create payment as testing, "false" means
			create payment transaction as production one.
			If missing, payment transaction is set as production.
country	string	N	country code ("CZ", "SK", "PL", "ALL"), default value is "CZ"
price	integer	Y	Product price in cents or pennies.
	_		Must be min. 10 CZK (including), max. unlimited.
curr	string	Υ	Currency code – ISO 4217. Usually "CZK"
label	string	Υ	Short description of product displayed to Payer (1-16 characters)
refld	string	Y	Referral payment ID from Merchant's system (uniqueness is not
			required, it's possible to create more payment transactions with
			the same "refld")
payerld	string	N	The Payer identifier from Merchant's system. The identifier must
			be verified for example by Payer logging to the Merchant's
			system using a password, otherwise leave the parameter blank. It
			is used when paying with ČS card, where ČS payment gateway
			stores the card numbers, so the next payment Payer need not re-
			enter the card number. This feature must be enabled for a
			particular Merchant in the ČS system.
cat	string	(Y)	Identifier of payment category. Attribute must have value from list
			given on integration process. Usually "PHYSICAL". Parameter is
			required only for "MPAY_CZ" and "SMS_CZ" payment methods.
account	string	N	Identifier of Merchant's bank account to which ComGate
			Payments transfers the money. If the parameter is empty, the
			default Merchant's account will be used. List of accounts is on
			https://data.comgate.cz/
email	string	Y	Payer's e-mail (for reclamation purposes)
phone	string	N,Y/N	Payers mobile number (for reclamation purposes)
name	string	N	Product identifier – attribute is helpful for search in ComGate
			Payments - statistics of payments page
prepareOnly	boolean	Y	Set it to "true" for payment transaction creation on background.
			For payment creation by redirection or web form post set it to
			"false" or not set it at all.
secret	string	Y	For payment transaction creation on background set this attribute
			to password for background communication
initRecurringId	striing	А	ComGate ID of initial payment.



Response parameters

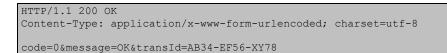
All parameters are urlencoded, as in case of HTTP request for Payment transaction creation. Response has parameter code, under which client determines what result he displays to payer. Code = 0 means success and payment was created, any other code indicates error and therefore payment was not created.

parametr	typ	required	description			
code	integer	Υ	return code of method and error description:			
message	string	Υ	Result code and error description:			
_	_		0 OK			
			1100 Unknown error			
			1102 Requested language is not supported			
			1103 Unexpected count of specified methods			
			1104 Cannot find payment update			
			1200 DB error			
			1301 Unknown merchant			
			1303 Interface URLs or language is missing			
			1304 Invalid category specified			
			1305 Product label is missing			
			1308 Specified payment option is not enabled for you			
			1309 Invalid payment amount			
			1310 Unknown currency of payment price			
			1311 Invalid bank account identifier			
			1316 Client does not have recurring payments enabled			
			1317 Invalid method – does not support recurring payments			
			1318 Initial payment was not found			
			1399 Unexpected result from DB method			
			1400 Request error			
			1500 Unexpected error			
transId	string	N	Alphanumerical unique identifier of transaction - transaction Id. Will be			
	-		shown to Payer while making payment.			

Example of Payment transaction creation on background - HTTP request:

POST /v1.0/recurring HTTP/1.1 Host: payments.comgate.cz Content-Type: application/x-www-form-urlencoded; charset=utf-8 merchant=merchant com&price=10000&curr=CZK&label=Beatles%20-%20Help!&email= email%40platce.cz&refId=2010102600&prepareOnly=true&secret=ZXhhbXBsZS5jb206QUJDeHl6&initRecurringId=AB12-EF34-IJ56

Example of Payment transaction creation on background - HTTP response:



Payment transaction handover on background

ComGate Payments system passes the final result of payment transaction using HTTP request to Merchant's server. Parameters of the request describe the detail of finished payment.

Request parameters

parameter	type	required	description			
merchant	string	Y	Merchant identifier			
test	boolean	Υ	The "true" means payment was created as testing one, "false"			
			means payment was created as production one.			
price	integer	Υ	Product price in cents or pennies			
curr	string	Υ	Currency code - ISO 4217. Usually "CZK"			
label	string	Υ	Short description of product displayed to Payer (1-16 characters)			
refld	string	Υ	Referral payment ID from Merchant's system.			
payerId	string	Ν	The Payer identifier from Merchant's system.			
vatPL	string	(Y)	Identifier of VAT rate in Poland.			
cat	string	(Y)	Identifier of payment category.			
method	string	Ν	Payment method used. It is one from the list of payment methods.			
account	string	Ν	Identifier of Merchant's bank account.			
email	string	Υ	Payer's e-mail			
phone	string	Ν	Payer's mobile number			
name	string	N	Product identifier – attribute is helpful for search in ComGate			
			Payments - statistics of payments page			
transld	string	Υ	Alphanumerical unique identifier of transaction - transaction Id			
secret	string	Υ	Password for background communication			
status	string	Y	Actual transaction state, values:			
			"PAID" – payment was successfully paid			
			"CANCELLED" – payment was not finished correctly and was			
			cancelled			
			"AUTHORIZED" – requested preauthorization was successful			
fee	string	Ν	In case that Client has automatic charging enabled, this field will			
			contain transaction fee, otherwise will contain value "unknown"			

Response parameters

parameter	type	required	description
code	integer	Y	return code of method and error
message	string	Y	description: In case of result was received successfully, our system expects the return code 0 and description "OK"

Example of payment transaction status handover on background – HTTP request

POST /handler.php HTTP/1.1 Host: eshop.com Content-Type: application/x-www-form-urlencoded; charset=utf-8

merchant=merchant_com&test=false&price=10000&curr=CZK&label=Beatles%20-%20Help!&refId=2010102600
&cat=DIGITAL&method=MPAY_CZ&email=info%40customer.com&phone=%2B420123456789&transId=AB12-EF34-IJ56
&secret=ZXhhbXBsZS5jb206QUJDeH16&status=PAID

Example of payment transaction status handover on background – HTTP response

HTTP/1.1 200 OK Content-Type: application/x-www-form-urlencoded; charset=utf-8

Preauthorization submit

In case that Client created payment with requirement to preauthorize credit card payment (using the parameter preauth=true), calling this function will require the deduction of money that were blocked within the preauthorization.

Calling can only be used for payments that were announced with AUTHORIZED state.

Request parameters

parameter	type	required	description	
merchant	string	Υ	Client identificator	
transId	string	Y	unique alphanumeric ID (code) of transaction (transactionId)	
secret	string	Y	password for background communication	

Response parameters

parameter	type	required	description			
code	integer	Υ	return code of method and error description:			
message	string	Υ	0 OK			
_			1100 unknown error			
			1104 cannot retrieve payment			
			1200 database error			
			1301 unknown Client			
			1303 missing links or language			
			1399 unexpected result from the database			
			1400 wrong request			
			1500 unexpected error			

Example of preauthorization submit – HTTP request:

POST /v1.0/capturePreauth HTTP/1.1 Host: payments.comgate.cz Content-Type: application/x-www-form-urlencoded; charset=utf-8

merchant=merchant com&transId=XA52-3R2M-EB9C&secret=ZXhhbXBsZS5jb206QUJDeH16

Example of preauthorization submit – HTTP response:

HTTP/1.1 200 OK Content-Type: application/x-www-form-urlencoded; charset=utf-8

Preauthorization cancel

In case that Client created payment with requirement to preauthorize credit card payment (using the parameter preauth=true), by calling this function says he will not encash the money that were blocked within the preauthorization and thus can be released.

Calling can only be used for payments that were announced with AUTHORIZED state.

Request parameter

parameter	type	required	description	
merchant	string	Y	Client identificator	
transId	string	Y	unique alphanumeric ID (code) of transaction (transactionId)	
secret	string	Y	password for background communication	

Response parameter

parameter	type	required	description		
code	integer	Y	return code of method and error description:		
message	string	Y	0 OK		
	-		1100 unknown error		
			1104 cannot retrieve payment		
			1200 database error		
			1301 unknown Client		
			1303 missing links or language		
			1399 unexpected result from the database		
			1400 wrong request		
			1500 unexpected error		

Example of preauthorization cancel – HTTP request:

POST /v1.0/cancelPreauth HTTP/1.1

Host: payments.comgate.cz Content-Type: application/x-www-form-urlencoded; charset=utf-8

merchant=merchant_com&transId=XA52-3R2M-EB9C&secret=ZXhhbXBsZS5jb206QUJDeH16

Example of preauthorization cancel – HTTP response:

HTTP/1.1 200 OK Content-Type: application/x-www-form-urlencoded; charset=utf-8

Payment refund

Method for refunding paid payments. It is possible to perform both partial (refund amount is less than amount of the payment) and full (refund amount is equal to amount of the payment) refund. That amount will be refunded back to payers account.

Request parameter

parameter	type	required	description	
merchant	string	А	client identificator	
transId	string	А	unique alphanumeric ID (code) of transaction (transactionId)	
secret	string	А	password for background communication	
amount	string	А	refund amount	
curr	string	N	currency of refund, if not present, "CZK" will be used	
test	string	N	Value "true" means, that refund will be set as testing. Refund and payment will be checked as usual, but initial payment won't be refunded.	
			If empty or "false", refund will be set as production. Testing payments can only be refunded with testing refunds.	

Parametry odpovědi

parameter	type	required	description	
code	integer	А	return code of method and error description:	
message	string	А	0 OK	
_	_		1100 unknow error	
			1200 database error	
			1400 wrong request	
			1401 refunded payment is not PAID	
			1500 unexpected error	

Example of refund creation – HTTP request:

```
POST /v1.0/refund HTTP/1.1
Host: payments.comgate.cz
Content-Type: application/x-www-form-urlencoded; charset=utf-8
```

merchant=merchant com&transId=XA52-3R2M-EB9C&secret=ZXhhbXBsZS5jb206QUJDeH16

Example of refund creation – HTTP response:

```
HTTP/1.1 200 OK
Content-Type: application/x-www-form-urlencoded; charset=utf-8
```

Getting enabled payment methods

Method for merchant used for determining his current allowed options in ComGate Payments system. This can be used for getting the list of available methods. These methods can be used for payment creation afterwards.

Request parameter

parameter	type	required	description	
merchant	string	Y	Client identificator	
secret	string	Y	password for background communication	
type	string	N	Format of response ("xml" or "json"). If not present, "xml" will be used.	
lang	string	N	Language of method description. Valid valies are "cs", "en", "pl". If not present, "cs" will be used.	

Response parameter

XML or JSON is present in response, according to parameter "type". Both formats have same nesting level.

element	type	required	description
/methods/method/id	string	A	available payment method id
/methods/method/name	string	Α	method name, in chosen language
/methods/method/description	string	A	longer method description, in chosen
	_		language
/methods/method/logo	string	A	HTTP link pointing to method logo image

In case of error, response has following format:

element	type	requried	description	
/error/code	string	А	result code and error description:	
/error/message	string	A	0 OK	
			1100 unknown error	
			1200 db error	
			1300 merchant has no enabled method	
			1400 request error	
			1500 unexpected error	
/error/extraMessage	string	N	longer error message	

Example of getting enabled payment methods – HTTP request:

```
POST /v1.0/methods HTTP/1.1
Host: payments.comgate.cz
Content-Type: application/x-www-form-urlencoded; charset=utf-8
merchant=merchant_com&secret=ZXhhbXBsZS5jb206QUJDeHl6&type=xml&lang=en
```

Example of getting enabled payment methods – HTTP response:

```
<le><logo>https://payments.comgate.cz/assets/images/logos/BANK CZ CTB.png</logo>
</method>
<method>
<id>BANK_CZ_CS_P</id>
<name>Česká spořitelna - PLATBA 24</name>
<description> On-line payment using bank account of Česká spořitelna.</description>
<logo>https://payments.comgate.cz/assets/images/logos/BANK CZ CS P.png</logo>
</method>
<method>
<id>BANK_CZ_FB</id>
<name>Fio banka - PayMyway</name>
<description> On-line payment using bank account of Fio banka.</description>
<logo>https://payments.comgate.cz/assets/images/logos/BANK CZ FB.png</logo>
</method>
</method>
```

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=utf-8
  "methods": [
    {
      "id": "BANK CZ AB",
      "name": "Air Bank",
      "description": " Bank transfer using bank account of Air Bank.",
      "logo": "https://payments.comgate.cz/assets/images/logos/BANK CZ AB.png"
    },
      "id": "BANK CZ CTB",
      "name": "Citibank",
      "description": " Bank transfer using bank account of Citibank.",
      "logo": "https://payments.comgate.cz/assets/images/logos/BANK CZ CTB.png"
    },
    {
      "id": "BANK CZ CS P",
      "name": "Česká spořitelna - PLATBA 24",
      "description": " On-line payment using bank account of Česká spořitelna.",
      "logo": "https://payments.comgate.cz/assets/images/logos/BANK CZ CS P.png"
    },
      "id": "BANK CZ FB",
      "name": "Fio banka - PayMyway",
      "description": "On-line payment using bank account of Fio banka.",
      "logo": "https://payments.comgate.cz/assets/images/logos/BANK CZ FB.png"
```

Example of getting enabled payment methods – HTTP response in case of error:

```
HTTP/1.1 200 OK
Content-Type: application/xml; charset=utf-8
<?xml version="1.0" encoding="UTF-8"?>
<error>
        <code>1400</code>
        <message>Unauthorized access!</message>
</error>
```

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=utf-8
{
    "error": {
        "code": 1400,
        "message": "Unauthorized access!"
    }
}
```

VAT rates in Poland

VAT rate	Value from 2011	Description
NONE	0 %	Product is exempt from paying VAT.
LOWER_1	5 %	Super reduced VAT rate.
LOWER_2	8 %	The reduced rate of VAT.
STANDARD	23 %	The standard rate of VAT.

Categories of goods

Category	Description
DIGITAL	Digital content, online delivery
PHYSICAL	Physical goods, physical delivery
EROTIC	Erotic goods

Payment transaction states

state	description
PENDING	Payment transaction was created, final result of payment is not yet known.
PAID	Payer successfully realized payment – it is possible to provide goods, service.
CANCELLED	Payment was not realized, goods is not delivered, service is not provided. At exceptional cases it is possible for this state to change to PAID state

Payment methods

List of available payment methods is here.

Туре	Description	Identifier
Credit or debit	Provider automatically (recomended)	CARD_ALL
card		(or CARD)
	Provider ČSOB (via GPE)	CARD_CZ_CSOB
	Provider ČSOB (via ČSOB)	CARD_CZ_CSOB_2
	Provider Česká spořitelna	CARD_CZ_CS
	Provider Slovenská spořiteľňa	CARD_SK_SLSP
	Provider B+S Card Service	CARD_CZ_BS
Bank transfer	Bank is choosed by Payer (recomended)	BANK_ALL
	ePayment for RaiffeisenBank clients	BANK_CZ_RB_2
	ePayment for clients of Komerční Banka	BANK_CZ_KB_2
	ePayment for GE Money Bank clients	BANK_CZ_GE_2
	ePayment for Sberbank CZ clients	BANK_CZ_VB_2
	ePayment for clients of FIO Banka	BANK_CZ_FB_2
	ePayment for Air Bank	BANK_CZ_AB
	ePayment for Citybank clients	BANK_CZ_CTB
	ePayment for clients of Česká spořitelna	BANK_CZ_CS
	ePayment for ČSOB clients	BANK_CZ_CSOB
	ePayment for Equa Bank	BANK_CZ_EB
	ePayment for mBank clients	BANK_CZ_MB
	ePayment for clients of era	BANK_CZ_PS
	ePayment for UniCredit Bank clients	BANK_CZ_UC_2
	ePayment for Zuno Bank AG	BANK_CZ_ZB
	ePayment for clients of other banks	BANK_CZ_OTHER
	ePayment+ for RaiffeisenBank clients	BANK_CZ_RB
	ePayment+ for clients of Komerční Banka	BANK_CZ_KB
	ePayment+ for GE Money Bank clients	BANK_CZ_GE
	ePayment+ for Sberbank CZ clients	BANK_CZ_VB
	ePayment+ for clients of FIO Banka	BANK_CZ_FB
	ePayment+ for clients of Česká spořitelna	BANK_CZ_CS_P
	ePayment+ for mBank clients	BANK_CZ_MB_P
	ePayment+ for ČSOB clients	BANK_CZ_CSOB_P
	ePayment+ for clients of era	BANK_CZ_PS_P
	ePayment+ for UniCredit Bank clients	BANK_CZ_UC
	ePayment+ for clients of Slovenská spořiteľňa	BANK_SK_SP
	ePayment+ for clients of VÚB Bank	BANK_SK_VUB
	ePayment+ for clients of Tatra Bank	BANK_SK_TB
	ePayment+ for clients of ČSOB	BANK_SK_CSOB
	ePayment+ for clients of UniCredit Bank	BANK_SK_UC
	ePayment+ for clients of Poštovná Banka	BANK SK PB
	ePayment for Prima Bank	BANK SK DEXIA
	ePayment for Fio Bank	BANK_SK_FB
	ePayment for clients of other banks	BANK_SK_OTHER