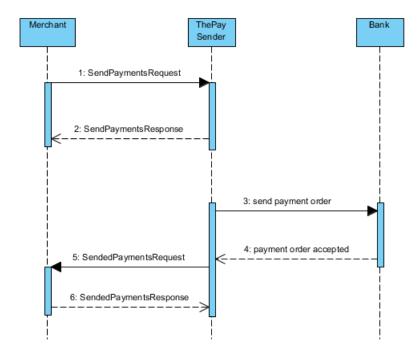
ThePay - Sender - API

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Scheme of communication:

- merchant -> ThePay sending list of payments; response: confirmation or error
- ThePay -> merchant information about processed payments confirmation or errors



Sending payments list (sendPayments)

Merchant send to ThePay list of payments which should be paid.

Communication with the system is possible only from IP addresses set by the merchant in the administration. Requests sent from any other IP will be ignored.

Communication is based on SOAP, WSDL document is available here: https://www.thepay.cz/sender-gate/api/payments-api.wsdl

Request content:

Name	Required	Data	Description	Validation
		type		
merchantId	Υ	integer	ID of merchant in ThePay	Merchant with this ID
			system	exists, is approved, active
				and not deleted
accountId	Υ	integer	ID of merchant's account in	Account with this ID exists
			ThePay system	belongs to merchant, is
				approved, active and not
				deleted
payments	Υ	array	List of payments	
signature	Υ	string	Sha256 hash, which is created	Request data matches
			from request data and	hash.
			merchant's account password	
			(detail description below)	

Payment consists of parameters:

Name	Required	Data type	Description	Validation
accountPrefix	N	string \d{0,6}	Recipient's account	Account prefix is
			prefix	correct (see ČNB
				specification)
accountNumber	Υ	string	Recipient's account	Account number is
		\d{2,10}	number (without	correct (see ČNB
			bank code)	specification)
bankCode	Υ	string \d{0,4}	Recipient bank's code	Bank with this code
				exists in Czech. Rep.
amount	Υ	decimal	Amount of money to	Number greater than 0
			send	with 2 decimal places
				with dot (".") as
				separator
currency	N	int	ID of currency,	Currency with this ID
			default 1 (CZK)	exists in ThePay system
VS	N	string	Variable symbol	Max 10 digits.
		\d{0,10}		
SS	N	string	Specific symbol	Max 10 digits.
		\d{0,10}		
ks	N	string	Constant symbol	Max 10 digits.
		\d{0,10}		
merchantData	Υ	String	Merchant's ID of	Must be unique for
		[a-zA-Z0-9]*	payment - internal	merchant's account. It
			identifier used by	can contains only
			merchant's system	allowed characters
description	N	string	Description for	
			recipient (reserved	
			for future use)	
merchantDescription	N	string	Description for	
			merchant (visible	
			only in ThePay	
			administration)	
email	N	string	Recipient's e-mail	Valid e-mail address
			address where	
			notification about	
			payment will be sent	

Sending payments list - response

The Pay payment gate validate payments, save valid payments for processing and don't save invalid ones. Then send response with state of payments.

Content of response:

- merchantId
- accountId
- state
 - OK all payments are accepted
 - ERROR_REQUEST incorrect request merchant or account desn't exists, empty payments list, invalid signature etc.
 - o ERROR_PAYMENTS some part of payments is invalid
- errorDescription error description, is not send for OK state
- notAcceptedPayments list of invalid (not accepted) payments, is not send for OK state
- signature hash created form request data

Not accepted payment consists of parameters:

- merchantData merchant ID of payment (sent in merchantData parameter)
- errorDescription error description

Confirmation of processed payments and state changes

After payments are processed (bank receives payment order or reject them because of some error) notification is send to merchant's system.

Same notifications are sent if state of sent payment is changed e.g. payment bounced back. These additional notifications can be turned off in account setting.

Confirmation is sent as SOAP request to URL specified in account setting in administration. Method **sentPayments** is called with parameters described below. Communication is done in non-wsdl mode and notification URL is used as targetNamespace (uri in configuration of PHP class SoapServer). Sample WSDL with format specification is available on https://www.thepay.cz/sender-gate/api/payments-sent-api.wsdl

Request parameters:

Structure is same as for sending payments, there are only some new parameters:

- status see Payment states
- errorDescription error description, used only for state 4

Notification is sent for payments processed in certain period and is independent on requests from merchant. So it can an probably will contain multiple payments created by multiple requests.

Response

Response consists of only one parameter - "status" with string value "OK".

Any other response is considered as unsuccessful attempt. In that case, notification request will be repeatit several times later.

Creating of validation hash

Algorithm

Signature is SHA256 hash created from request parameters and password. Parameters are converted to string in format of URL GET parameters, but without url encoding - all characters in parameters remains as is.

So final string for hashing has this format "parametr1=value of parameter 1¶metr2= value of parameter 2¶metr3=other value".

Not required parameters which are empty are not used for signature.

Password

Password parameter is appended at the end of string with other parameters (you can password your password in administration of accounts). Appended string is in format "&password=yourpassword"

Payments serialization

Value of parameters containing list of payments (parameter payments and notAcceptedPayments) is hashes of payments separated by character "|". Hash of payment is created by same algorithm as hash of whole request, but not contains password.

Final value of parameter is in this format "&payments=hash_of_payment1| hash_of_payment2| hash_of_payment3".

Response and requests from ThePay

Data from ThePay (sendPayments response and notification request) is signed with same algorithm as data from merchant.

Only exception are some error states for sendPayments request. Signature of response doesn't contain password if given merchant or project ID is invalid (we don't found project, so we have no password to use).

Payment states

Value	Description	In
		notification
1	Payment is created and waiting to be send	N
2	Payment was successfully sent	Υ
3	Payment was canceled	N
4	Payment was rejected by bank	Υ
5	Payment is actually being processed	N
6	Payment bounced back (e.g. account not exists)	Υ*
7	reclaimed	Υ*
8	reclaimed and returned by customer	Υ*
9	reclaimed - unsuccessfully	Υ*
11	returned by customer	Υ*

^{*} if enabled in account setting (enabled by default)

Recipient's account name notifications

How it works

This feature allows merchant to receive notifications about recipient's account name (which is owner's name and surname in most cases).

Function is not standard part of API and is available only on demand.

This notification works only for some banks which can provide this information, not for all banks supported by Sender. For actual status please contact us.

Notification URL

Notifications are sent to URL address set by merchant is his account detail in Sender administration. If this URL is not filled, notifications are not sent.

This URL is not same as URL for notifications about payment being sent or payment state change (but, of course, can be set to same URL).

Notification content

Request content

Notification request content is similar to notification about payment state change. There is only one extra parameter - **recipientAccountName** (*string*). Rest of the content is same.

WSDL document with format specification is here https://www.thepay.cz/sender-gate/api/payments-account-name.wsdl

Response

Response is same as for notification about payment state change.

Response is message with only one parameter - "status" with value OK.

If request fail (e.g. because of timeout or some other communication problem) or if response is different from expected format, notification will be sending several more times.

When is notification sent?

Notification is sent after our system gets recipient's account name from bank. Usually it takes about ten minutes, but it depends on bank and payment circumstances.

Data API

Data API is designated for downloading data from ThePay Sender service. It gives you access to information available in merchant administration through API.

Password and signature

As password will be used communication password. You can find it in administration interface, section merchant settings. Password for data API is different from sending payments API password.

Payments password is unique for merchant account, which means combination merchantld-accountld, in data API merchant accounts are not distinguished.

Signature algorithm is identical to payments sending API (sha256 has of serialized parameters)

WSDL document for Data API is here https://www.thepay.cz/sender-gate/api/data/data-v1.wsdl

Actual credit balance (method getBalance)

By this method you can get actual credit balance for each payment method (bank).

Request content:

Name	Required	Data	Description	Validation
		type		
merchantId	Υ	integer	ID of merchant in ThePay system	Merchant with this ID exists, is approved, active and not deleted
signature	Υ	string	Sha256 hash of request data	Request data matches hash.

Response content:

Name	Data type	Description
merchantId	integer	ID of merchant in ThePay system
status	string	OK – everything is OK
		ERROR – error during validation or request processing
errorDescription	string	Error desctipion. Filled only if status=ERROR
balances	MethodBalance[]	Credit balance for each payment method (bank).
signature	string	Sha256 hash of response. It will be empty if merchant is not
		found or signature is invalid. Parameter errorDescription is
		part of signature only if not empty.

Structure of MethodBalance object:

Name	Data type	Description
methodId	integer	ID of payment method
methodName	string	Name of payment method
balance	decimal	Actual credit balance for this method
currency	integer	Currency (1 = CZK)

Download payment confirmation PDF

Through this API you can download PDF file with confirmation that payment was sent (you can download same document in administration).

You can download the **confirmation by payment ID** from URL https://www.thepay.cz/sender-gate/admin/obchodnik/api/download_confirm/[paymentId]/[signature]/

Parameter	Format	Description
paymentId	integer	ID of payment
signature	string	Signature (SHA-256 hash from parameters and password)

Signature is hash from string paymentId=[paymentId]&merchantId=[merchantId]&password=[dataApiPassword]

Or you can download **confirmation by** *merchantData* from URL https://www.thepay.cz/sender-gate/admin/obchodnik/api/download_confirm/merchant_data/[accountId]/[merchantData]/[signature]/

Parameter	Format	Description	
accountId	integer	ID of merchant's account	
merchantData	string	Value of parameter merchantData	
signature	string	Signature (SHA-256 hash from parameters and password)	

Signature is hash from string

merchantData=[merchantId=[merchantId]&accountId=[accountId]&password=[data ApiPassword]

Response HTTP codes

HTTP code	Description
200	Ok, response body contains PDF file with confirmation.
401	Invalid signature
404	Payment does not exist
405	Payment was not sent yet

GPC export download

Through this API you can download GPC export of payments for given time period (you can download same document in administration on page Přehled plateb - GPC exporty).

You can download the export from URL https://www.thepay.cz/sender-gate/admin/obchodnik/api/download_export/[merchantId]/gpc/[from]/[to]/[signature]/

Parameter	Format	Description
merchantId	integer	ID of merchant
from	date	From date (from beginning of this day), format YYYY-MM-DD
to	date	To date (to end of this day), format YYYY-MM-DD, must be equal or greater than
		from date
signature	string	Signature (SHA-256 hash from parameters and password)

Signature is hash from string

merchantId=[merchantId]&format=gpc&from=[from]&to=[to]&password=[dataApiPassword]

Response HTTP codes

HTTP code	Description
200	Ok, response body contains GPC export with payments
400	Wrong value of parameter from or to
401	Invalid signature
404	Merchant does not exist or is inactive

Test environment

Test environment allows you to perform integration tests and test your implementation. Payments are not saved and not send, but all other functionality is same as for production gate.

Sending payments

WSDL for testing environment is here: https://www.thepay.cz/sender-demo-gate/api/payments-api-demo.wsdl

Merchant data: merchantId: 1 accountId: 1 password: test

Error is returned for different setting (this is only merchant and project on test environment).

Test gate doesn't check IP address of sender (you must allow your IP in administration on production environment), all other validations are preserved.

Notifications

By this form you can send test notifications: https://www.thepay.cz/sender-demo-gate/testPages/notifSender.php

Into this form input URL with notification you want to send there and confirm form. Notification will contain two payments - one successfully sent and one with error.

Here is testing site for simulating account name notifications: https://www.thepay.cz/sender-demo-gate/testPages/notifSenderAccountName.php

Set target URL and confirm. Demo notification with account name will be send here (content of notifications is static).

Data API

WSDL for testing environment is here: https://www.thepay.cz/sender-demo-gate/api/data/data-v1-demo.wsdl

password: test_data