Przelewy24

Integration manual

Date: 2014-06-23 Version: 3.2

This document contains technical details of implementation Przelewy24 system.
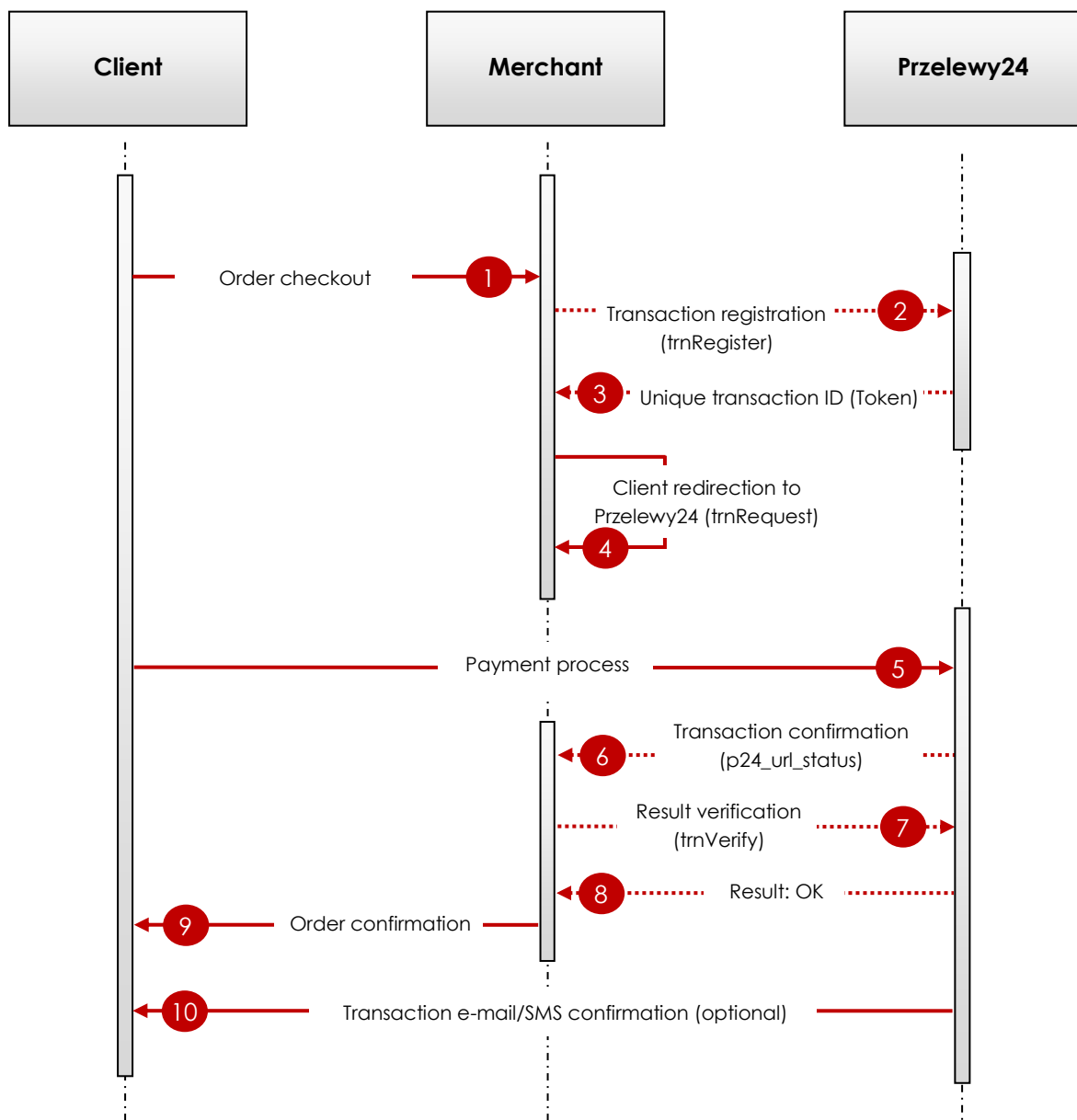
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1 Transaction flow

Client finishes order in Merchant's system, and clicks "pay". Merchant's system sends a Transaction request (register) to the P24 system, and receives a unique TOKEN. Client is redirected to the Transaction-start page with given TOKEN.

After successful transaction – Client is redirected to the "p24-url-return" page, and instantly P24 sends a notification to the p24-url-status.

Merchant's system sends a verification request, and if everything is correct – finalizes an order.

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2   Definitions

Merchant – A Company or an Individual, who has signed a contract with Przelewy24.

Session ID – an unique ID from Merchant's system, used to data verification process.

CRC key – a random string, used to calculate a CRC value, shown in Przelewy24 Admin panel.

3   Software

To process transactions correctly, a Merchant has to implement this integration on Merchant's website, including transaction request and verification process.

4   Test connection

To test if the connection with Przelewy24 is correct, you may use the following:

URL: https://secure.przelewy24.pl/testConnection

POST parameters:

Field	Type	Mandatory	Description
p24_merchant_id	INT	Y	Merchant ID
p24_pos_id	INT	Y	Merchant ID
p24_sign	STRING(100)	Y	A value calculated using MD5/SHA1 from fields: p24_pos_id and CRC key. Fields must be separated with a char: " | "

5   Transaction

5.1   Transaction register

Before the transaction is registered all data must be stored in local Merchant's database. Especially the SessionID and amount must be saved.

Transaction register must be processed using POST method, by sending the following fields to the URL address given below.

URL: https://secure.przelewy24.pl/trnRegister

POST parameters:

Field	Type	Mandatory	Description
p24_merchant_id	INT	Y	Merchant ID
p24_pos_id	INT	Y	Shop ID (default Merchant ID)
p24_session_id	STRING(100)	Y	A unique ID from Merchant's system
p24_amount	INT	Y	Amount, presented in 1/100 of the currency. Example: 12,30 PLN = 1230
p24_currency	STRING(3)	Y	PLN, EUR, GBP, CZK
p24_description	STRING(1024)	Y	Transaction description
p24_email	STRING(50)	Y	Client's email address
p24_client	STRING(50)	N**	Client's full name
p24_address	STRING(80)	N**	Client's address
p24_zip	STRING(10)	N**	Client's zip-code
p24_city	STRING(50)	N**	Client's city
p24_country	STRING(2)	Y	Country code, according to the appendix 8.5
p24_phone	STRING(12)	N	Client's phone number: 481321132123
p24_language	STRING(2)	N	pl / en / de / es / it
p24_method	INT	N	An ID of preferred (chosen) payment method. Full list of payment methods is available in P24 Admin panel, or via API
p24_url_return	STRING(250)	Y	Return address, where Client will be redirected to, after the transaction is completed.
p24_url_status	STRING(250)	N	Address where the status of a transaction is sent. It can be omitted if stored in P24 system.
p24_time_limit	INT	N	Time limit for the transaction to be processed, 0 - unlimited, max. 99(in minutes)

p24_wait_for_result	INT	N	Whether the Client has to wait for the result in P24 system (0 / 1)
p24_channel	INT	N	1 - CC, 2 – bank transfers, 4 – manual transfer, 8 – N/A 16 – all methods 24/7, 32 – use prepayment Value contains the sum of above options. By default all options are enabled.
p24_shipping	INT	N	Shipping/packaging cost
p24_transfer_label	STRING(20)	N	Additional transfer's description in Client's bank.[1]
p24_sign	STRING(100)	Y	Calculated CRC sum, see 8.1
p24_encoding	STRING(15)	N	Character encoding: ISO-8859-2, UTF-8, Windows-1250
p24_api_version	STRING(5)	Y	3.2
Shopping cart details, where X is a number 1-100 (optional [2])			
p24_name_X	STRING(127)	Y	Item name
p24_description_X	STRING(127)	N	Item description
p24_quantity_X	INT	Y	Quantity
p24_price_X	INT	Y	Item price
p24_number_X	INT	N	An ID of an item in Merchant's system.

** - required for Credit Cards, PayPal, FerBuy.

As a return system returns an error code (0 – if no error) and a TOKEN, or a description of an error.

Successful transaction request:

---

[1] Additional statement is not show in all payment methods

[2] Required for PayPal Protected Payment, installment plan

error=0&token={TOKEN}

Error transaction request:

error={ERR_CODE}&errorMessage=field1:desc1&field1:desc2...

errorMessage may contain a set of errors.

5.2 Transaction start

URL: **https://secure.przelewy24.pl/trnRequest/{TOKEN}**

where {TOKEN} is received from transaction register (see p. 5.1)

5.3 Transaction start without registering

URL: **https://secure.przelewy24.pl/trnDirect**

The POST form must be sent. The form must contain all required fields, as described in p. 5.1

5.4 Transaction result

Correct transaction

URL **p24_url_return** is called.

No POST messages are being sent. Information about status of the transaction is sent automatically to the **p24_url_status**.

Notification about correct transaction.

URL **p24_url_status** is called. Notification is sent every time the transaction is confirmed. It doesn't depend on the Client's web-browser. System doesn't notify about incorrect or cancelled transactions.

POST parameters:

p24_merchant_id	INT	Merchant ID
p24_pos_id	INT	Shop ID (default: Merchant ID)
p24_session_id	STRING(100)	A unique ID from Merchant's system
p24_amount	INT	Transaction amount (in 1/100 of the currency)
p24_currency	STRING(3)	PLN, EUR, GBP, CZK
p24_order_id	INT	Transaction number (given by P24 system) – must be stored in Merchant's system

p24_method	INT	Payment method ID used by the Client
p24_statement	STRING(40)	Transaction statement
p24_sign	STRING(40)	CRC from fields: p24_session_id, p24_order_id, p24_amount, p24_currency and „ CRC Key"

5.5 Verification of the given result

After the notification is received Merchant's system must send a verification request to check if the data stored in its system are correct in P24 system.

URL: https://secure.przelewy24.pl/trnVerify

POST parameters:

p24_merchant_id	INT	Merchant ID
p24_pos_id	INT	Shop ID (default: Merchant ID)
p24_session_id	STRING(100)	A unique ID of the transaction from Merchant's system
p24_amount	INT	Transaction amount from Merchant's system
p24_currency	STRING(3)	PLN, EUR, GBP, CZK
p24_order_id	INT	Transaction number received from P24
p24_sign	STRING	CRC from fields: p24_session_id, p24_order_id, p24_amount, p24_currency and a „CRC key".

As a result P24 system returns an error code (0 – if no error) and a short description.

Result for a correct transaction:

error=0

Result if something is wrong with the verified transaction:

error={ERROR_CODE}&errorMessage={SHORT DESCRIPTION}

Warning! Transaction is finally settled when it is verified and confirmed by the Merchant. If the Client makes a payment and return to the Merchant's shop, but Merchant doesn't verify the transaction, it will not be settled and transferred to the Merchant's bank account, the money

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will remain on P24 account and it can be used by the Client or returned to the Client on its request.

5.6 Automatic notification about transaction

In case if the first notification fails, the P24 system will send another notification after some time. This notification will be sent 5 times – after: 15, 30, 60, 150 and 450 minutes (+/- 5 min.) unless the transaction is verified.

The POST parameters are the same as in the first notification.

6   WebServices

WebServices Przelewy24 endpoints:

Encoded: *https://secure.przelewy24.pl/external/SHOPID.wsdl*

Literal: *https://secure.przelewy24.pl/external/SHOPIDs.wsdl*

Where SHOPID is ID received during company registration.

WebServices documentation can be downloaded from http://www.przelewy24.pl/download

7   Test environment (Sandbox)

During the implementation process the test environment (Sandbox) may be used.

URLs to the Sandbox env.:

https://sandbox.przelewy24.pl/panel - Admin. panel

https://sandbox.przelewy24.pl/trnDirect - Test transaction request

https://sandbox.przelewy24.pl/trnVerify - Verification request

Test transactions can only be processed in the Sandbox environment and in the admin panel they are shown.

Warning! Test environment must not be used to process live transactions.

8   Additional information

8.1   p24_sign

In a P24 admin panel, in section "My data", there is a string "CRC key". If this string is empty, it may be generated. This string is 16 chars long.

Value of **p24_sign** is calculated as follows:

p24_sign => MD5 from concatenated fields (for example: p24_session_id, p24_merchant_id, p24_amount, p24_currency) and the CRC-key. The fields' separator: "|".

Example:

> md5 for: **abcdefghijk|9999|2500|PLN|a123b456c789d012**

> equals: **6c7f0bb62c046fbc89921dc3b2b23ede**

Warning: For different purposes, the value of p24_sign is calculated from different fields.

8.2   Servers' IPs

We strongly recommend to check if the notification calls come to Merchant's system from P24 system. Here is a list of all IPs **Przelewy24**:

> **91.216.191.181 – 91.216.191.185**

8.3   Przelewy24 PHP class

You can download from URL: http://www.przelewy24.pl/download files with class prepared to communication with Przelewy24.

The class is prepared for PHP language. In order to use class you must include it to your project, and then use available methods for transaction registration and verification.

With class file there is a sample file - client.php, where Przelewy24 use examples are shown.

Constructor attributes:

- merchant_id   - Merchant ID
- pos_id   - pos id
- salt   - CRC value
- sandbox   - if true connection is set to test environment (sandbox) if false (default) production environment is used.

Object creation:

```php
$P24 = new Przelewy24(MERCHANT_ID,
                      POS_ID,
                      SALT,
                      false
                      );
```

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Connection testing:

```
$RET = $P24->testConnection();
if($RET["error"]==0) {
// Connection correct
} else {
// Error, error message in field $RET["errorMessage"]
}
```

Transaction registration

```
$P24->addValue("p24_session_id",$session_id);
$P24->addValue("p24_amount",$amount);
$P24->addValue("p24_currency",$currency);
$P24->addValue("p24_email",$email);
// ... other attributes according to 5.1

/**
trnRegister(autoRedirect) - if autoRedirect is set to true after transaction
registration client will be redirected to Przelewy24 payment screen, if set to
false method will return transaction TOKEN
 */
$RET = $P24->trnRegister(true);

if($RET["error"]!=0) {
// Error, error message in field $RET["errorMessage"]
}
```

Result verification:
```
$P24->addValue("p24_session_id",$session_id);
$P24->addValue("p24_amount",$amount);
$P24->addValue("p24_currency",$currency);

$RET = $P24->trnVerify();
if($RET["error"]==0) {
// Transaction correct
} else {
// Error, error message in field $RET["errorMessage"]
}
```

8.4 Error codes

err00	Incorrect call
err01	Authorization answer confirmation was not received.
err02	Authorization answer was not received.
err03	This query has been already processed.
err04	Authorization query incomplete or incorrect.
err05	Store configuration cannot be read.

err06	Saving of authorization query failed.
err07	Another payment is being concluded.
err08	Undetermined store connection status.
err09	Permitted corrections amount has been exceeded.
err10	Incorrect transaction value!
err49	To high transaction risk factor.
err51	Incorrect reference method.
err52	Incorrect feedback on session information!
err53	Transaction error !
err54	Incorrect transaction value!
err55	Incorrect transaction id!
err56	Incorrect card
err57	Incompatibility of TEST flag !
err58	Incorrect sequence number !
err101	Incorrect call
err102	Allowed transaction time has expired
err103	Incorrect transfer value.
err104	Transaction awaits confirmation.
err105	Transaction finished after allowed time.
err106	Transaction result verification error
err161	Transaction request terminated by user
err162	Transaction request terminated by user

8.5 Country codes

Andorra	AD		Norway	NO
Austria	AT		Poland	PL
Belgium	BE		Portugal	PT
Cyprus	CY		San Marino	SM
Czech Republic	CZ		Slovakia	SK
Denmark	DK		Slovenia	SI
Estonia	EE		Switzerland	CH
Finland	FI		Sweden	SE
France	FR		Hungary	HU
Greece	EL		Great Britain	GB
Spain	ES		Italy	IT

Netherland	NL
Ireland	IE
Island	IS
Lithuania	LT
Latvia	LV
Luxemburg	LU
Malta	MT

USA	US
Canada	CA
Japan	JP
Ukraine	UA
Belarus	BY
Russia	RU

8.6 Graphics

Przelewy24 logo is available on web site: http://www.przelewy24.pl/download

Appendix 1 – Change history

Date	Author	Comment
2010-10-10	Michał Bzowy	Document preparation
2012-02-17	Maciej Ostrycharz	Description updates, adding country codes and error codes
2014-04-29	Krzysztof Szanecki	- Message format unification - Order details processing functions
2014-07-29	Michał Bzowy	- Descriptions updates - P24 class added