

# Installation Manual for Concardis PayEngine 3.0 Modified Shop

This manual describes the installation and usage of the Concardis PayEngine 3.0 extension for Modified Shop.

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# Table of Contents

|          |  |           |
|----------|--|-----------|
| <b>1</b> | <b>Introduction .....</b>  | <b>5</b>  |
| 1.1      | Process of the Installation .....  | 5         |
| 1.2      | System Requirements .....  | 6         |
| <b>2</b> | <b>Configuration of the Payment Module and the Payment Methods .....</b>   | <b>7</b>  |
| 2.1      | Configuration Main Module .....  | 7         |
| 2.2      | Activation Payment Methods .....   | 8         |
| <b>3</b> | <b>Module Installation and Update in the Modified Shop Shop .....</b>      | <b>9</b>  |
| 3.1      | Installation .....   | 9         |
| 3.2      | Updates and Upgrades .....   | 9         |
| 3.2.1    | Update Checklist .....   | 9         |
| 3.2.2    | Update Instructions .....  | 10        |
| <b>4</b> | <b>Module Configuration in the Modified Shop Shop .....</b>                | <b>11</b> |
| 4.1      | Configuration of the Main Module .....                                     | 11        |
| 4.1.1    | Create Pending Orders .....  | 11        |
| 4.1.2    | Database Encoding .....  | 12        |
| 4.1.3    | Order Prefix .....   | 12        |
| 4.1.4    | Order Prefix .....   | 12        |
| 4.2      | Direct Capturing of Transactions .....                                     | 12        |
| 4.3      | Uncertain Status .....   | 12        |
| 4.3.1    | Setting the order state .....  | 13        |
| 4.4      | Optional: Validation .....   | 13        |
| <b>5</b> | <b>Settings / Configuration of Payment Methods .....</b>                   | <b>14</b> |
| 5.1      | General Information About the Payment Methods .....                        | 14        |
| 5.2      | Information on Payment Status .....  | 14        |
| 5.2.1    | Order status "pending" / imminent payment (or similar) .....               | 14        |
| 5.2.2    | Order status "cancelled" .....   | 14        |
| 5.2.3    | Code Adjustments for the MasterPass Integration (xt:commerce SP 2.1) ..... | 14        |
| 5.2.4    | Further information .....  | 15        |
| <b>6</b> | <b>The Module in Action .....</b>  | <b>16</b> |
| 6.1      | Useful Transaction Information on the Order .....                          | 16        |
| 6.2      | Trigger Payments in the Modified Shop backend .....                        | 17        |
| 6.2.1    | Refunding Orders .....   | 18        |
| 6.3      | Capturing / Cancelling of Orders .....                                     | 19        |

|           |   |           |
|-----------|---|-----------|
| 6.3.1     | Capturing / Cancelling of Orders .....                  | 19        |
| 6.4       | Usage of the Alias Managers / Token Solution .....      | 19        |
| 6.5       | Setup a Cron Job to Activate the Timed Operations ..... | 20        |
| <b>7</b>  | <b>Testing .....</b>                                    | <b>21</b> |
| 7.1       | Test Data .....   | 21        |
| <b>8</b>  | <b>Errors and their Solutions .....</b>                 | <b>24</b> |
| 8.1       | Payment methods are not displayed in the checkout ..... | 24        |
| 8.2       | The Referrer URL appears in my Analytics Tool .....     | 24        |
| <b>9</b>  | <b>Error Logging .....</b>                              | <b>25</b> |
| 9.1       | Log Levels .....  | 25        |
| 9.2       | Log Location .....                                      | 25        |
| <b>10</b> | <b>Advanced Information .....</b>                       | <b>26</b> |
| 10.1      | Transaction Object .....                                | 26        |

# 1 Introduction

This manual leads you through the installation, configuration and usage of the payment module for Modified Shop and Concardis PayEngine 3.0.

Before beginning with the installation, please make sure that you are in possession of all necessary data:

- Access to your merchant center account of Concardis PayEngine 3.0 (<https://merchanttest.payengine.de> for test and <https://merchant.payengine.de> for live) - On this platform you can download the access information.
- Modified Shop payment module from [sellxed.com/shop](https://sellxed.com/shop).
- Access to your server.

In case you don't yet have a contract with Concardis PayEngine 3.0, we please ask you to contact their support.

**Note that you must use at least PHP version 5.6 for our plugins. PHP 8 or higher is currently not supported.**

## 1.1 Process of the Installation

In this document you will find all important information for the installation of the module. It is important that you strictly follow the checklist. Only by doing so, can a secure usage in correspondence with all security regulations be guaranteed.

1. Configuration of the [basic settings](#) of the payment module
2. Configuration of the [payment methods](#)
3. Carrying out of a test purchase by means of the attached [test data](#) at the end of this document
4. If your test was successful, do not forget to switch the operating mode to live mode.

## Installation Service

Our payment plugins should have per default the correct settings for most of our customers' preferences. That means once you have entered the required credentials in the plugin configuration to connect your account to your website, the plugin should be fully operational. Should you be willing to receive detailed information on a setting you do not know, you may contact our support team who will be able to assist you further.

Our support team is at your disposal during regular business hours at: <http://www.sellxed.com/support>. Furthermore, you have the option of ordering our installation service. We will make sure the plugin is installed correctly in your shop: <http://www.sellxed.com/shop/de/integration-und-installation.html>

## .htaccess Directory Protection

In order to test the module, any kind of directory protection or IP blocking on your server must be deactivated. This is crucial as otherwise the payment feedback of Concardis PayEngine 3.0 might not get through to the shop.

## 1.2 System Requirements

In general, the plugin has the same system requirements as Modified Shop. Below you can find the most important requirements of the plugin:

- PHP Version: 5.4.x or higher
- OpenSSL: Current version with support for TLS 1.2 or higher.
- fsockopen: The PHP function fsockopen must be enabled. The plugin must be able to connect to external systems over the Internet.
- PHP Functions: All common PHP functions must be enabled.

## 2 Configuration of the Payment Module and the Payment Methods

In order to configure and set up the [main module](#) in Modified Shop please double check that you possess the following information:

- Merchant ID
- API Private Key

All this informations are provided in your [https://merchant.payengine.de\\_merchant\\_center\\_account](https://merchant.payengine.de_merchant_center_account) under **My Account**.

| Account <span>i</span>    |   |
|---------------------------|---|
| Merchant Id               | Merchant-abcd123-abcd-abcd-abcd12345678 |
| Creditor ID               |   |
| Company name              | Your Company                            |
| Legal form                | GmbH                                    |
| Street                    | Teststreet 123                          |
| Town                      | Test Town                               |
| Zip                       | 12345                                   |
| Country (based)           | CH                                      |
| Currency                  | EUR                                     |
| Phone                     | 0041 12 345 67 89                       |
| Fax                       | 0041 12 345 67 80                       |
| VAT Identification Number | 123456 (CHE-123.456.789 MWST)           |
| Business field            | Shopsystems                             |
| Shop URL                  | yourdomain.com                          |
| EXPECTED SALES            |   |
| Minimum                   | 100000                                  |
| Maximum                   | 100000000                               |

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**Figure 2.1:** Overview of the Merchant Center account including the required Merchant ID.

### 2.1 Configuration Main Module

Follow the instruction in the section [main module](#) to install and set the above retrieved credentials directly in your shop. If you want to have additional information regarding how to use

the Extranet of Concardis PayEngine 3.0 we ask you kindly to directly call the customer support of Concardis PayEngine 3.0.

## **2.2 Activation Payment Methods**

Once the main module is configured navigate to the payment methods and activate the payment methods that you want to process with.



## 3 Module Installation and Update in the Modified Shop Shop

### 3.1 Installation

At this time you should already be in possession of the module. Should this not be the case, you can download the necessary files in your customer account in the [sellxed shop](#) (Menu "My Downloads Downloads"). In order to install the module in your shop, please carry out the following steps:

1. Download the plugin. The download can be found in your sellxed.com account under "My Downloads".
2. Unzip the archive you have just downloaded.
3. In the unzipped folder navigate to the folder "files"
4. For some shops there are different versions of the plugin provided. If this is the case open the folder which corresponds to your shop version.
5. Using your preferred FTP client upload **entire content** of this folder into the root directory of your shop. For some shops there is a specific folder containing the plugins. If that is the case upload the plugin into this folder. Make sure that the folders aren't replaced but merely merged.
6. If you haven't yet done so, log back into your shop.

### 3.2 Updates and Upgrades

You have direct and unlimited access to updates and upgrades during the duration of your support contract. In order to receive constant information about available updates we ask you to subscribe to our RSS feed that we publish for your module.

More information regarding the subscription of this RSS feed can be found under: [http://www.sellxed.com/en/updates\\_upgrades](http://www.sellxed.com/en/updates_upgrades).

We only recommend an update if something doesn't work in your shop, if you want to use new feature or if there is a necessary security update.

#### 3.2.1 Update Checklist

We ask you to strictly comply with the checklist below when doing an update:

1. Always do a backup for your database and your files in your shop
2. Use always a test system to test the update process.
3. Wait until all the files are copied to the shop, clear the cache if there is one in your shop and then visit the configuration page of the main module so that the update process will be initialized.

### Do not do updates directly in the live environment

Please test the update procedure first in your test shop. Our support team is able and willing to help you if you experience problems with the update process. However, if you decide to perform the update directly in your live shop there is the possibility of a downtime of the shop of more than two days depending on the availability of our support if you do not want to book our [complementary support](#).

Depending on the version it could be that the database has to be migrated. We recommend you therefore, to perform the updates in times when the shop is not visited too frequently by your customers.

### 3.2.2 Update Instructions

Please always read the update instruction. Those instructions can be found in the changelog. If there are no special remarks, you can proceed by just overwriting the files in your system.

## 4 Module Configuration in the Modified Shop Shop

The configuration consists of two steps. The first step is the configuration of the main module with all the basic settings (cf. [Configuration of the Main Module](#)). During the second step you can then carry out individual configurations for each [payment method](#). This allows for full flexibility and perfect adaptation to your processes.

### Create backups!

Please create a backup of the main directory of your shop. In case of problems you will then always be able to return your shop to its original state.

We furthermore recommend testing the integration on a test system. Complications may arise with third party modules installed by you. In case of questions, our support is gladly at your disposal.

### Admin Folder

Please change the Admin Folder back to "admin" if modified during the installation. Alternatively you can use a **not recommended** and **not update proof**solution, and modify our "hard coded" path strings. Please make sure to rename the "admin" folder of the module to exactly the same name on your webserver.

### 4.1 Configuration of the Main Module

You will find the settings for the module under **"Modules > (Export)-Modules > Concardis PayEngine 3.0 Base Module"**. Install the module and click on "Open Method Configuration". A new window should open up. Enter the individual options such as described above in the configuration of the administration interface of Concardis PayEngine 3.0. Should one of the options not be clear to you, you can find further information by moving the cursor to the question mark. The most central settings are explained in more detail in this manual.

#### 4.1.1 Create Pending Orders

You have the possibility of creating pending orders. In this case a temporary order will be created with the status "pending payment". This allows you to reserve the item in your shop and to transmit the identical order number as in the shop to Concardis PayEngine 3.0. In the case when a customer cancels his or her purchase, the order remains in your shop - except if you activate the option "Remove cancelled orders". This makes sure that cancelled orders are deleted regularly. If you do not wish to create pending orders, simply keep the default setting of xt:Commerce. However, this also means that the reference number (payment ID) with Concardis

PayEngine 3.0 doesn't correspond to the order number in the shop. You are, however, free to use both options.

### 4.1.2 Database Encoding

If you haven't selected UTF-8 as a default for your database, this might lead to encoding problems with parameters with special characters. In this case you must select the option that data is UTF-8 encoded before being sent to Concardis PayEngine 3.0.

### 4.1.3 Order Prefix

With the option order prefix you can define your own order scheme for the transmission to Concardis PayEngine 3.0. This option is especially useful in a multi-store set up so that you can identify which shop a transaction in the back-end of Concardis PayEngine 3.0 belongs to. The tag "{id}" is automatically replaced by consecutive order numbers.

### 4.1.4 Order Prefix

With the option order prefix you can define your own order scheme for the transmission to Concardis PayEngine 3.0. This option helps you identify to which shop a transaction the backend of Concardis PayEngine 3.0 is related to. The tag "{id}" will automatically be replaced by the consecutive order number.

## 4.2 Direct Capturing of Transactions

The option "Capture" allows you to specify if you wish to debit payments directly or if you first wish to authorise them and then debit the payment at a later point.

Depending on your acquiring contract, a reservation is only guaranteed for a specific period of time. Should you fail to debit the payment within that period, the authorisation may therefore no longer be guaranteed. Further information on this process can be found below.

### Different settings between Concardis PayEngine 3.0 and the module

It may be that settings saved in the payment modules overwrite settings saved in Concardis PayEngine 3.0.

## 4.3 Uncertain Status

You can specifically label orders for which the money is not guaranteed to be received. This allows you to manually control the order before shipment.

### 4.3.1 Setting the order state

For each payment method you may select in which state the order should be set to depending on the booking state. This is the initial state of the order.

## 4.4 Optional: Validation

Note: It can be that this option is not visible in your module. In this case just ignore this section.

With the option 'Validation' you can define the moment when the payment method should be made visible to the customer during the checkout process. This setting is relevant for modules where the usage depends on the customer's compliance with specific preconditions. For example, if a solvency check has to be carried out or if the payment method is only available in certain countries. In order for the credit check or address validation to also work with European characters, the charset of the "Blowfish mode" must be set to "UTF-8" for certain PSP settings.

You have the choice between these options:

- **Validation before the selection of the payment method:** A validation verification is carried out before the customer selects the payment method. If the customer does not fulfill the requirements, the payment method is not displayed
- **Validation after selection of the payment method:** The verification of the compliance occurs after the selection of the payment method and before the confirmation of the order
- **During the authorisation:** The validation verification is carried out by Concardis PayEngine 3.0 during the authorisation process. The payment method is displayed in any case

## 5 Settings / Configuration of Payment Methods

### 5.1 General Information About the Payment Methods

The plugin contains the most common payment methods. In case a desired payment method is not included per default, please contact us directly.

In order to be able to use a payment method, it must be activated in your account with Concardis PayEngine 3.0 as well as in your shop. Information about the configuration of the payment methods can be found further above.

Below you can find important information for specific payment methods that deviate from the standard process.

### 5.2 Information on Payment Status

For each payment method you can define an initial payment status (status for authorized payments etc.). You hereby define the payment status for each state depending on the processing type of the order (captured, authorized, etc.). It's the initial status which the order assumes. Depending on the mutation carried out by you, the status can change.

#### Important info regarding Order Status

Never set the status to **Pending Concardis PayEngine 3.0** or any similar pending status which is implemented by the module.

#### 5.2.1 Order status "pending" / imminent payment (or similar)

Orders with the status 'pending Concardis PayEngine 3.0' are pending orders. Orders are set to that status if a customer is redirected in order to pay but hasn't returned successfully or the feedback hasn't reached your shop yet (Customer closed window on the payment page and didn't complete payment). Depending on the payment method these orders will automatically be transformed into cancelled orders and the inventory will be cleared (so long as the Cronjob is activated). How long this takes depends on the characteristics of the payment method and cannot be configured.

If you have a lot of pending orders it usually means that the notifications from your webserver to Concardis PayEngine 3.0 are being blocked. In this case check the settings of your firewall and ask the Hostler to activate the IPs and User Agents of Concardis PayEngine 3.0.

#### 5.2.2 Order status "cancelled"

Orders with the status "cancelled" have either been set to that status automatically due to a timeout, as described above, or have been cancelled directly by the customer.

### 5.2.3 Code Adjustments for the MasterPass Integration (xt:commerce SP 2.1)

In order for the button "Pay with MasterPass" to appear in the shopping cart when using external checkout with address transmission, the following adjustments in the code have to be made. If you prefer to simply use MasterPass as a regular payment method without address transmission, no changes are necessary.

The files containing the necessary code adjustments can be found in the zip files in /changes/\*.txt. Please paste the codes contained in these files into the location described below.

#### 5.2.3.1 Adjusting shopping\_cart.php

Please copy the code snippet from the file /changes/shopping\_cart.php.txt in front of the following code:

```
$smarty->assign('language', $_SESSION['language']); (ca. line 140)
```

#### 5.2.3.2 Adjusting templates/[current-active-template]/module/shopping\_cart.html

Please copy the code found in /changes/shopping\_cart.html.txt in front of the **tag-`{if}`**:

### 5.2.4 Further information

MasterPass with External Checkout cannot be used in combination with vouchers. If the customer wants to redeem a voucher, she has to go through standard checkout.

## 6 The Module in Action

Below you will find an overview of the most important features in the daily usage of the Concardis PayEngine 3.0 module.

|                          |                     |
|--------------------------|---------------------|
| <b>Sprache:</b>          | german              |
| <b>Zahlungsweise:</b>    | XXXXXXXXXX_XXXXXXXX |
| Kreditkartentyp:         | Mastercard (28_23)  |
| Kreditkarteninhaber:     |                     |
| Kreditkartennummer:      |                     |
| Sicherheitscode (CVV):   |                     |
| Kreditkarte läuft ab am: |                     |

Figure 6.1: Transaction Information

### 6.1 Useful Transaction Information on the Order

You can find an overview of the transaction information in within the order detail view. Among others, this information allows for the definite attribution of the orders to their corresponding transaction, seen in the backend of Concardis PayEngine 3.0.



# Transaktionsnummer


|   |                     |
|---|---------------------|
| <b>Transaktions ID</b>  | 12                  |
| <b>Transaktionsnummer</b>   | 9_12                |
| <b>Bestell ID</b>   | 9                   |
| <b>Erstellt am</b>  | 2013-11-26 18:03:28 |
| <b>Erneuert am</b>  | 2013-11-26 18:03:59 |
| <b>Kunden ID</b>  | 1                   |
| <b>Zahlungsid</b>   | 25691316            |
| <b>Zahlungs-Klasse</b>  | XXXXXXXXXX          |
| <b>Autorisierungsbetrag</b>   | 125                 |
| <b>Währung</b>  | EUR                 |
| <b>Zahlungsmethode</b>  | Visa                |
| <b>Zahlungsid</b>   | 25691316            |
| <b>Verbuchter Betrag</b>  | 125                 |
| <b>Transaktion autorisiert</b>  | Ja                  |
| <b>Transaktion ist unsicher</b>  | Nein                |
| <b>Transaktion verbucht</b>   | Ja                  |
| <b>Transaktion bezahlt</b>  | Ja                  |
| <b>Akzeptanz</b>  | test123             |
| <b>Kartennummer</b>   | XXXXXXXXXXXX0003    |
| <b>Kartenablaufdatum</b>  | 06/16               |
| <b>Händler Referenz</b>   | 9_12                |

Figure 6.1: Transaction Information

## 6.2 Trigger Payments in the Modified Shop backend

With the Modified Shop payment module, orders can be triggered directly from within the shop, so called Mail Order / Telephone Order (MOTO).

1. Go to the customer overview and activate a customer. By clicking on "Create Order" a new window opens up for the creation of the order
2. Click on "Edit" and select the item and the options

3. In the field payment method you can select the preferred payment method and click on "Submit Order"
4. Depending on the authorisation method that you have saved for the selected payment method, you will either be redirected to the Payment Page of Concardis PayEngine 3.0 or the mask for the credit card will appear such as in the image below. Enter the credit card data of the customer

### 6.2.1 Refunding Orders

In order to refund orders, open the transaction information (cf. above). There you will find information on the transaction. Further below you will find an input field in which you can enter the amount you wish to refund. By clicking on "refund", the refund request will be transmitted to Concardis PayEngine 3.0. You no longer need to log into the backend of Concardis PayEngine 3.0.

Zurück

### Teilgutschrift

| Name   | SKU      | Typ      | MwSt. | Menge | Total (exkl. MwSt.) |   |
|--|----------|----------|-------|-------|---------------------|---|
| Testartikel  | ABC123   | product  | 8 %   | 1     | 20.54               | 2 |
| Selbstabholung (Selbstabholung der Ware in unserer Geschäftsstelle.) | shipping | shipping | 0 %   | 1     | 0.00                | 0 |
| <b>Total gutgeschriebener Betrag:</b>                                |          |          |       |       |                     |   |

**Transaktion für weitere Rückvergütungen schliessen**

**Figure 6.1:** refund button

Executing a refund will not change the status of the order.

## 6.3 Capturing / Cancelling of Orders

### Please note

The transaction management between your shop and Concardis PayEngine 3.0 is not synchronised. If you capture payments with Concardis PayEngine 3.0, the status in the shop will not be updated and a second capturing in the shop is not possible.

### 6.3.1 Capturing / Cancelling of Orders

In order to capture orders, open the transaction information (cf. above). There you will find information on the transaction. Further below you will find an input field in which you can enter the amount you wish to capture. By clicking on "capture", the capture will be transmitted to Concardis PayEngine 3.0. You no longer need to log into the backend of Concardis PayEngine 3.0.

By clicking on "Cancel Transaction" you cancel the transaction and the reserved amount is immediately released on the card of your customer.

#### Transaktion verbuchen

##### Betrag vergüten ⓘ

##### Transaktion schliessen ⓘ

 Ja, Transaktion schliessen

#### Transaktion abbrechen

Figure 6.1: capture oder cancel button.

## 6.4 Usage of the Alias Managers / Token Solution

With the Alias Manager, your customers can securely save their credit cards with Concardis PayEngine 3.0 for later purchases. You can enable this by activating the option "Alias Manager" in the configuration of the [Payment Method](#). The customer can then choose from his or her saved credit cards without having to re-enter all the details.

 **ZAHLUNGSWEISE**

Bitte wählen Sie die gewünschte Zahlungsweise aus.

**Visa**

Karten Nr: 9451 1231 0000 0111 Ablaufdatum: 12/2015 CVV: 123

Use previous stored credit  
card:

xxxx xxxx xxxx 0111 ▼

**Figure 6.1:** Alias Manager

**Please pay attention!**

The usage of the Alias Managers requires the activation of the correct option with Concardis PayEngine 3.0. To do so, please contact the support directly.

## 6.5 Setup a Cron Job to Activate the Timed Operations

To activate the timed operations of the plugin (e.g. update service, deleting pending orders, etc.), please activate in a regular request to the file `payengine3cw_cron.php`. The regular call triggers the appropriate actions.

Here we suggest you use a Cron Engine like for example [EasyCron](#). That way you can This allows you to open the file ( URL ) with an external service.

## 7 Testing

Before switching from test to live mode it is important that you test the module extensively.

### Testing

Do not forget to switch the operating mode from test to live after having successfully tested the module.

### 7.1 Test Data

In the following section you can find the test data for the various payment methods:

#### Credit / Debit Card

|                |                     |                     |
|----------------|---------------------|---------------------|
| Card number    | 5399 9999 9999 9999 | MasterCard Standard |
| Expiry Date    | 12/2020             |                     |
| CVC            | 123                 |                     |
| Success Amount | 1.00\$/€            |                     |
| Failure Amount | 1.11\$/€            |                     |
| Card number    | 5404 0000 0000 0001 | MasterCard 3D       |
| Expiry Date    | 12/2020             |                     |
| CVC            | 123                 |                     |
| Success Amount | 1.00\$/€            |                     |
| Failure Amount | 1.11\$/€            |                     |
| Card number    | 4111 1111 1111 1111 | VISA Standard       |
| Expiry Date    | 12/2020             |                     |
| CVC            | 123                 |                     |
| Success Amount | 1.00\$/€            |                     |
| Failure Amount | 1.11\$/€            |                     |
| Card number    | 4000 0000 0000 0002 | VISA 3D             |
| Expiry Date    | 12/2020             |                     |
| CVC            | 123                 |                     |
| Success Amount | 1.00\$/€            |                     |
| Failure Amount | 1.11\$/€            |                     |
| Card number    | 3741 1111 1111 111  | Amex                |
| Expiry Date    | 12/2020             |                     |
| CVC            | 1234                |                     |
| Success Amount | 1.00\$/€            |                     |
| Failure Amount | 1.11\$/€            |                     |
| Card number    | 3714 4963 5398 431  | Amex Safekey        |
| Expiry Date    | 12/2020             |                     |
| CVC            | 1234                |                     |
| Success Amount | 1.00\$/€            |                     |

|                              |                        |  |
|------------------------------|------------------------|--|
| Failure Amount               | 1.11\$/€               |  |
| Card number                  | 6400 0512 3456 7895    | Maestro  |
| Success Amount               | 1.00\$/€               |  |
| Failure Amount               | 1.11\$/€               |  |
| Card number                  | 4462 0300 0000 0000    | VISA Debit                                     |
| Expiry Date                  | 12/2020                |  |
| CVC                          | 123                    |  |
| Success Amount               | 1.00\$/€               |  |
| Failure Amount               | 1.11\$/€               |  |
| <b>PayPal</b>                |                        |  |
| Failure Amounts              | 1.00/11.00/111.00\$/€  | Simulation Failure Amounts                     |
| <b>giropay / paydirekt</b>   |                        |  |
| Failure Amounts              | 1.00/11.00/111.00\$/€  | Simulation Failure Amounts                     |
| <b>SOFORT</b>                |                        |  |
| Failure Amounts              | 1.00/11.00/111.00\$/€  | Simulation Failure Amounts                     |
| <b>RatePay Direct Debits</b> |                        |  |
| IBAN                         | DE12500105170648489890 | Simulation IBAN for test order with settlement |
| BIC                          | INGDDEFFXXX            |  |
| IBAN                         | DE1511111111111111199  | Simulation IBAN for test order                 |
| City                         | Testhausen             | Ratepay Failure                                |
| Surname                      | Ablehnung              |  |
| <b>RatePay Open Invoice</b>  |                        |  |
| City                         | Testhausen             | Ratepay Failure                                |
| Surname                      | Ablehnung              |  |
| <b>iDEAL</b>                 |                        |  |
| Failure Amounts              | 1.00/11.00/111.00\$/€  | Simulation Failure Amounts                     |
| <b>Alipay</b>                |                        |  |
| Failure Amounts              | 1.00/11.00/111.00\$/€  | Simulation Failure Amounts                     |
| <b>Bancontact</b>            |                        |  |
| Failure Amounts              | 1.00/11.00/111.00\$/€  | Simulation Failure Amounts                     |
| <b>WeChat Pay</b>            |                        |  |
| Failure Amounts              | 1.00/11.00/111.00\$/€  | Simulation Failure Amounts                     |
| <b>giropay</b>               |                        |  |
| Failure Amounts              | 1.00/11.00/111.00\$/€  | Simulation Failure Amounts                     |
| <b>EPS</b>                   |                        |  |
| Failure Amounts              | 1.00/11.00/111.00\$/€  | Simulation Failure Amounts                     |
| <b>PostFinance Card</b>      |                        |  |

Failure Amounts

1.00/11.00/111.00\$/€

Simulation Failure Amounts

## 8 Errors and their Solutions

You can find detailed information under <http://www.sellxed.com/en/fag>. Should you not be able to solve your problem with the provided information, please contact us directly under: <http://www.sellxed.com/en/support>

### 8.1 Payment methods are not displayed in the checkout

In case the payment methods are not shown in the checkout even though they have been enabled, then please change in the language file in the respective language folder (/lang/LANG /LANG.php) the following entry (on line nr. 50): `define('LANGUAGE_CURRENCY', 'EUR');`

Set here the default language currency code according to the default language settings in your shop.

### 8.2 The Referrer URL appears in my Analytics Tool

When a customer and the notification are redirected via Header Redirection, the Concardis PayEngine 3.0 Referrer URL might appear in your Analytics Tool thus hiding the original traffic source. However, most Analytic Tools are able to minimize this problem.

In case you are using Google Analytics as reporting tool, this step by step guide may help you to exclude the URLs: [under bullet point 4](#).



## 9 Error Logging

The module will log different unexpected errors or information depending on the configured level. If there is any issue with the module, this log can help identify the cause.

### 9.1 Log Levels

You can configure the log level in the Concardis PayEngine 3.0 settings.

- Error: Logs unexpected errors only. (Default)
- Info: Logs extended information.
- Debug: Logs information helpful for debugging.

### 9.2 Log Location

The log messages are visible in the Modified Shop backend under "**Modules > (Export)-Modules > Concardis PayEngine 3.0 Base Module > Log Messages**".

## 10 Advanced Information

This section of the manual is for advanced usage of the module. The content is for advanced users with special requirements. Everything in this section is optional and not required for the daily usage of the module.

### 10.1 Transaction Object

This section describes how to extract information from a transaction, if you need it for further processing. E.g. you require more information of the transaction for further processing an order in your ERP system.

The code snippets in this section assume your script resides in the root folder of the shop with the default shop folder structure.

Have Modified Shop initialized in your script, this is required for the database connection.

```
include ('includes/application_top.php');
```

Include the module main file and module classes.

```
require_once DIR_FS_DOCUMENT_ROOT.'admin/includes/PayEngine3Cw/init.php';
require_once DIR_FS_DOCUMENT_ROOT.'admin/includes/PayEngine3Cw/classes
/PayEngine3Cw/Entity/Util.php';
```

Now you can load the transaction and then extract the transactionObject.

Load the transaction by Id:

```
$transactionById = PayEngine3Cw_Entity_Util::
findTransactionByTransactionId($transactionId);
$transactionObject = $transactionById->getTransactionObject();
```

Load the transaction by external Id:

```
$transactionById = PayEngine3Cw_Entity_Util::
findTransactionEntityByTransactionExternalId($externalId);
$transactionObject = $transactionById->getTransactionObject();
```

Load transactions by Order ID:

```
$transactionsByOrderId = PayEngine3Cw_Entity_Util::
findTransactionsEntityByOrderId($orderId);
foreach($transactionsByOrderId as $transaction){
    $transactionObject = $transaction->getTransactionObject();
    //Do something with each object
}
```