

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

1	Introduction	5
1.1	Process of the Installation	5
2	Configuration of the Payment Module and the Payment Methods	7
2.1	Configuration Main Module	7
2.2	Activation Payment Methods	8
3	Module Installation and Update in the Modified Shop Shop	9
3.1	Installation	9
3.2	Updates and Upgrades	9
3.2.1	Update Checklist	9
3.2.2	Update Instructions	10
4	Module Configuration in the Modified Shop Shop	11
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	Shop ID	12
4.3	Order Prefix	12
4.4	Selecting the Authorisation Method	13
4.5	Direct Capturing of Transactions	13
4.6	Uncertain Status Status	13
4.7	Optional: Validation	13
4.8	Multi-Shop Set-Up	14
5	Settings / Configuration of Payment Methods	16
5.1	General Information About the Payment Methods	16
5.2	Information on Payment Status	16
5.2.1	Order status "pending" / imminent payment (or similar)	16
5.2.2	Order status "cancelled"	16
5.2.3	Code Adjustments for the MasterPass Integration (xt:commerce SP 2.1)	16
5.2.4	Further information	17
6	The Module in Action	18
6.1	Useful Transaction Information on the Order	18
6.1.1	Refunding Orders	19

6.2	Capturing / Cancelling of Orders	20
6.2.1	Capturing / Cancelling of Orders	20
6.3	Usage of the Alias Managers / Token Solution	21
6.4	Set-up a cron job to activate the timed operations	22
7	Testing	23
7.1	Test Data	23
8	Errors and their Solutions	25
8.1	Payment methods are not displayed in the checkout	25
8.2	The Referrer URL appears in my Analytics Tool	25
9	Error Logging	26
9.1	Log Levels	26
9.2	Log Location	26
10	Advanced Information	27
10.1	Transaction Object	27

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://merchant.payengine.de>) - On this platform you can download the access information.
- Modified Shop payment module from 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.

1.1 Process of the Installation

In this document you will find all information important for the installation of the module. It is important that you strictly follow the check-list. 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 informations 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; otherwise the payment feedback of Concardis PayEngine 3.0 might not get through to the shop.

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**.

The screenshot shows the Merchant Center interface. On the left is a sidebar menu with the following items: Merchant Center, DASHBOARD, ORDERS, USER MANAGEMENT, PAYMENT METHODS, PAYMENT INSTRUMENTS, CUSTOMERS, MY ACCOUNT (highlighted in orange), and CUSTOM STYLES. The main content area is titled 'Account' and contains the following information:

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

At the bottom of the page, there is a disclaimer: 'DISCLAIMER PROTECTING YOUR DATA' and a copyright notice: '© 2017 Concardis GmbH'.

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 download 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 shops 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 thats 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

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 back up 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. They can be found on the plugin page in the shop under the section change log on the lower end of the page. 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 back-ups!

Please create a back-up 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 back-end of Concardis PayEngine 3.0 is related to. The tag "{id}" will automatically be replaced by the consecutive order number.

4.2 Shop ID

In the case of a multi-store set up (cf. [chapter: Multi-Store](#)), the parameter Shop ID identifies the shop's request and, therefore, redirects the feedback of Concardis PayEngine 3.0 based on the shop ID.

4.3 Order Prefix

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

4.4 Selecting the Authorisation Method

You can choose between two options of authorizing credit card payments. By selecting one of the two under the option 'Authorisation Methods', you define how you want to process the individual payment methods.

Further information on the various authorisation methods can be found on our [sellxed website](#).

Payment Processing

Please pay attention to the fact that you require the activation of further options with Concardis PayEngine 3.0 in order to use some of the authorisation methods.

It may be that certain authorization methods are not available for every payment method.

Alongside the introduction of PCI 3 there are additional certification requirements in case you are using the authorization method Hidden or AJAX. Please contact Concardis PayEngine 3.0 for further information or switch to another authorization method.

4.5 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 the debit the payment at a later point.

Depending on your acquiring contract, a reservation is only guaranteed for a specific amount 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.

4.6 Uncertain Status Status

You can specifically label orders for which no 3D-Secure verification nor any other security mechanism was carried out. This allows you to manually control the order before shipment.

4.7 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. 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 he or she 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

4.8 Multi-Shop Set-Up

The payment module is designed for the usage of one Concardis PayEngine 3.0 contract for several shops. It must be differentiated, however, between the case of an integrated multi-shop functionality and independent shops:

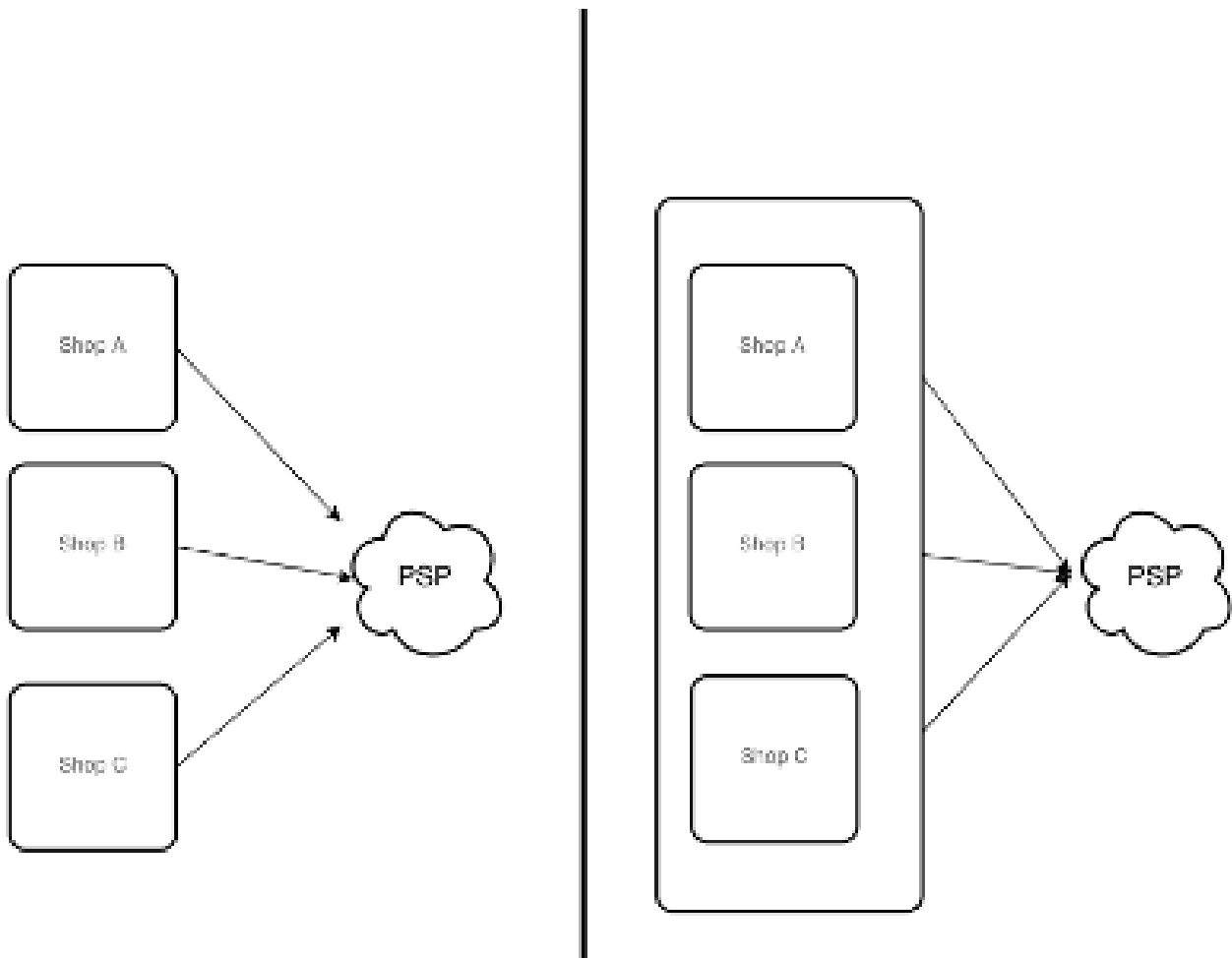


Figure 4.1: Multi-shop set-up

Licensing

In the case of independent shops, you require a payment module license for each shop. For scale prices, please contact us directly.

5 Settings / Configuration of Payment Methods

5.1 General Information About the Payment Methods

All sellxed payment modules are delivered with 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 Hoster 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 over the most important features in the daily usage of the Concardis PayEngine 3.0 module.

Sprache:	german
Zahlungsweise:	XXXXXXXXXXXXXXXXXXXX
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 over all the most important information of a transaction in all orders that have been processed with the sellxed module. Among others, this information allows for the definite attribution of the orders to their corresponding transaction, seen in the back-end of Concardis PayEngine 3.0.

Transaktionsnummer


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

Figure 6.1: Transaction Information

6.1.1 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 back-end 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
					Total gutgeschriebener Betrag:	

Transaktion für weitere Rückvergütungen schliessen

Figure 6.1: refund button

6.2 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.

6.2.1 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 back-end 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

Verbuchen

Transaktion abbrechen

Transaktion abbrechen

Figure 6.1: capture oder cancel button.

6.3 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.

6.4 Set-up 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. You can find all relevant test credit card data under: <http://www.sellxed.com/de/testen>.

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 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\$/€	
PayPal		
Failure Amounts	1.00/11.00/111.00\$/€	Simulation Failure Amounts
paydirekt		
Failure Amounts	1.00/11.00/111.00\$/€	Simulation Failure Amounts
Sofortüberweisung		
Failure Amounts	1.00/11.00/111.00\$/€	Simulation Failure Amounts
RatePay Direct Debits		
IBAN	DE12500105170648489890	Simulation IBAN for test order with settlement
BIC	INGDDEFFXXX	
IBAN	DE1511111111111111199	Simulation IBAN for test order
City	Testhausen	Ratepay Failure
Surname	Ablehnung	
RatePay Open Invoice		
City	Testhausen	Ratepay Failure
Surname	Ablehnung	

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  
}
```