

Installation Manual for NatWest Tyl OXID

This manual describes the installation and usage of the NatWest Tyl extension for OXID.

Release Date: Mon, 07 Aug 2023 14:01:06 +0200
Version: 1.0.116

wallee AG
General-Guisan-Strasse 47
CH-8400 Winterthur

E-Mail: info@sellxed.com

Telefon:

CH: +41 (0)44 505 13 60

DE: +49 (0)40 2999 60117

UK: +44 (0)161 850 6890

US: +1 (0)205 557 5869

© copyright by wallee AG Mon, 07 Aug 2023 14:01:06 +0200

####conditional####

Table of Contents

1	Introduction	5
1.1	Process of the Installation	5
1.2	System Requirements	6
2	Configuration NatWest Tyl	7
2.1	Test Environment and Live Platform for Administration	7
2.2	Mandatory: Configuration of the Module	7
2.3	Optional: Professional Version - Creating a Certificate File	7
2.4	Activating the Payment Methods and Testing	8
3	Module Installation and Update in the OXID 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 OXID Shop	11
4.1	Configuration of the Main Module	11
4.1.1	Settings	11
4.1.2	OXID 6 Installation	12
4.2	Configuration of the Payment Module	13
4.3	Direct Capturing of Transactions	13
4.4	Uncertain Status	13
4.4.1	Setting the order state	14
4.5	Optional: Validation	14
5	Settings / Configuration of Payment Methods	15
5.1	General Information About the Payment Methods	15
5.2	Information on Payment Status	15
5.2.1	Order status "pending" / imminent payment (or similar)	15
5.2.2	Order status "cancelled"	15
6	The Module in Action	16
6.1	Useful Transaction Information on the Order	16
6.2	Usage of the Alias Managers / Token Solution	16
6.3	Capturing / Cancelling of Orders	17
6.3.1	Capturing Orders	18

6.3.2	Cancelling Orders	18
6.4	Refunding Orders	19
6.5	Setup a Cron Job to Activate the Timed Operations	19
7	Testing	20
7.1	Test Data	20
8	Errors and their Solutions	21
8.1	The Referrer URL appears in my Analytics Tool	21
9	Compatibility with Third-Party Plugins	22
9.1	Birthday and gender in OXID	22
10	Error Logging	23
10.1	Log Levels	23
10.2	Log Location	23
11	Advanced Information	24
11.1	Transaction Object	24

1 Introduction

This manual leads you through the installation, configuration and usage of the payment module for OXID and NatWest Tyl.

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

- You should have received a Store ID from NatWest Tyl(Usually an eleven digit combination of numbers)
- Shared Secret for the usage of Connect (Shared Secret Connect Interface)
- If you are working with the professional version of the module and have requested the API Interface with NatWest Tyl, you should furthermore have received an API User ID, a client certificate as well as the corresponding passwords

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 the information necessary for the installation of the module. It is important that you follow the checklist strictly. Only if you comply with each step we can ensure a secure usage in correspondence with all security regulations.

1. Configuration of the basic settings of the payment module
2. Configuration of the payment methods
3. Carrying out a test purchase by means of the attached [test data](#) at the end of this document

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 NatWest Tyl might not get through to the shop.

1.2 System Requirements

In general, the plugin has the same system requirements as OXID. 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 NatWest Tyl

If you have merely bought the Standard Version of the module you only need to comply with the part **Configuration of the Module**

2.1 Test Environment and Live Platform for Administration

You can find the administration and the transaction overview if you click on this link (A client certificate is needed to access):

- https://www.ipg-online.com/emea/login.jsp?lng=de_DE.

Please note that you can only access the testing platform with a corresponding client certificate which you receive from NatWest Tyl.

2.2 Mandatory: Configuration of the Module

[Navigate to the main module](#) in your shop. Please fill in the following data in to the appropriate location:

- Store ID (you will receive this directly from NatWest Tyl)
- Shared Secret (you will receive this directly from NatWest Tyl)

The remaining settings in the main module regard specific fraud settings to identify transactions without 3D secure. The default settings are set correctly for most of them.

SSL certificate

Please note that momentarily there is a problem at NatWest Tyl with certain certificate types. In case no order confirmation mails are being sent out and the status of the order is still set to Pending NatWest Tyl and the status then changes to Cancelled you have to switch to Yes at **Force Non SSL Notification**.

2.3 Optional: Professional Version - Creating a Certificate File

By working with the Professional Version of the module you can operate the transaction management directly from your shop. This way you don't need to install the certificates to access the backend. To be able to use these functions you must already have bought the Professional Version of the Module at www.sellxed.com/shop. Otherwise you will not have access to these features. In order to change to the Professional Version contact us at [contact](#).

You will receive a ZIP from NatWest Tyl containing a key (file extension .key) as well as the certificate (file extension .pem) in order to use the backend and the transaction management. Extract these files into a directory of your choice and carry out the following steps:

1. Open the certificate (file with the extension .pem)

2. Open the key simultaneously (file with the extension .key)
3. Insert the content of the key underneath the certificate file
4. Save the certificate file and copy it into: files_4/lib/Customweb/NatWestTyl/Certificates/Default/
5. You can now proceed to the [instructions for the installation](#).

2.4 Activating the Payment Methods and Testing

Further information regarding the configuration of the payment methods and the meaning of the specific settings can be found [here](#). When you have activated and configured the payment methods you can run a test by means of the published [Test data](#) in the manual. If all tests were successful, switch the operating mode in the main module to **Live**.

3 Module Installation and Update in the OXID 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.

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 OXID 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.

4.1 Configuration of the Main Module

The settings for the main module can be found under **Extensions > Module**. Install the module by clicking **Activate**.

By clicking on the tab **Settings** you get to the configuration of the main module. Fill in the boxes by using the data that you have received from NatWest Tyl and may have already saved in the backend of NatWest Tyl. Each option is additionally explained in a short info text in the shop.

4.1.1 Settings

4.1.1.1 Update interval for payments

Payments may be updated periodically (interval in minutes). To use this feature you have to setup a cron job.

4.1.1.2 Order Creation

Choose when the order should be created. If set to 'Before Payment', orders are created in any case. If set to 'After Payment', an order is created only if the payment is successful.

4.1.1.3 Order ID

Use this setting to enforce the behaviour of unique order IDs, even if they are not.

Changing Order Creation and Order ID Settings

Changing these settings may cause duplicate transaction ids to be distributed, which will cause errors during transaction processing. If you wish to change these after transactions have been created you must backup then empty the module transaction table in the database.

4.1.1.4 Delete Orders on Failure

Set to yes to delete the order when the authorization fails. Otherwise the internal order status is set to 'PAYMENT_FAILED'.

4.1.1.5 Logging Level

Messages of this or a higher level will be logged.

4.1.2 OXID 6 Installation

After uploading the plugin via S/FTP, log into your server via SSH and navigate to the root folder of OXID. In this directory, run the following commands so the plugin is available in the backend:

```
command vendor/console/bin oe:module:install-configuration source/modules/customweb/natwesttylcw/
```

```
php vendor/bin/oe-console oe:module:activate natwesttylcw
```

```
php vendor/bin/oe-console oe:module:apply-configuration
```

4.2 Configuration of the Payment Module

After having successfully configured the main module, you can find the settings for the individual payment methods in your shop under **Shop Settings > Payment Methods** . Each method is listed individually.

Install the payment methods you wish to offer your customers. Open the payment method and tick the box next to **Active**.

By clicking on NatWest Tyl Configuration, you can save different settings for each payment method and thereby optimally adapt the payment methods to your existing processes

Payment Methods not Displayed in the Checkout

Please check if you have attributed the payment method to the available countries as well as customer groups in case a should payment method not be visible in the checkout.

Logo on the Payment Page

By choosing the authorization method **Hidden Authorization**, the insertion of the credit card data occurs in your shop. This requires additoinal PCI Certification though.

However, if you prefer that the customer inserts the credit card data on the payment page of NatWest Tyl, you have the possibility of placing your logo on said Payment Page. In order to do so, please contact NatWest Tyl directly.

4.3 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 NatWest Tyl and the module

It may be that settings saved in the payment modules overwrite settings saved in NatWest Tyl.

4.4 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.

4.4.1 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.

4.5 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 NatWest Tyl 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 NatWest Tyl 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 NatWest Tyl** 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 NatWest Tyl' 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 NatWest Tyl are being blocked. In this case check the settings of your firewall and ask the Hoster to activate the IPs and User Agents of NatWest Tyl.

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.

6 The Module in Action

Below you will find an overview of the most important features in the daily usage of the NatWest Tyl module.

6.1 Useful Transaction Information on the Order

In the tab **NatWest Tyl Transactions** you can find an overview of the transaction information. Among others, this information allows for the definite attribution of the orders to their corresponding transaction, seen in the backend of NatWest Tyl.

Autorisierungsbetrag	947.19
Währung	EUR
Zahlungsmethode	Visa
Zahlungsid	25839786
Verbuchter Betrag	947.19
Transaktion autorisiert	Ja
Transaktion ist unsicher	Nein
Transaktion verbucht	Ja
Transaktion bezahlt	Ja
Akzeptanz	test123
Kartenummer	XXXXXXXXXXXX0003
Kartenablaufdatum	12/15
Händler Referenz	ox_sel_pf_2

Figure 6.1: Transaction Information in OXID

6.2 Usage of the Alias Managers / Token Solution

With the Alias Manager, your customers can securely save their credit cards with NatWest Tyl 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.

YOUR PAYMENT INFORMATION

Saved cards:
You may choose one of the cards you paid before on this site.

Karteninhaber*
Bitte geben Sie den Karteninhaber auf Ihrer Kreditkarte ein.

Kartennummer*
Bitte geben Sie hier die Kartennummer Ihrer Kreditkarte ein.

Karten Ablaufdatum*
Wählen Sie das Ablaufdatum Ihrer Karte aus.

CVC Code*
Bitte geben Sie hier den CVC Ihrer Karte ein. Sie finden diesen auf der Rückseite Ihrer Kreditkarte.

Figure 6.1: Alias Manager Integration in OXID eSales

Alias Manager Options

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

6.3 Capturing / Cancelling of Orders

Our module allow you to capture payments directly from within Oxid eSales without having to log into NatWest Tyl.

6.3.1 Capturing Orders

In order to capture orders, open the transaction tab (NatWest Tyl Transactions). By clicking on the button **Capture** a new window will open up in which you can capture transactions.

You can now capture each item individually if you don't want to ship them all at once. The amount of possible partial captures depends on your contract. For more information on this, please contact NatWest Tyl directly.

Capturing of Orders in the backend of NatWest Tyl

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

If you do not want to capture all items of an orders, click on 'Close transaction for further captures'.

Teilbuchung

Mit dem folgenden Formular können Sie eine Teilbuchung durchführen.

Name	SKU	Typ	Steuersatz	Menge	Gesamttotal (exkl. MwSt.)	Gesamttotal (inkl. MwSt.)
Trapez ION SOL KITE 2011	1401	product	0 %	<input type="text" value="2"/>	<input type="text" value="216.80"/>	<input type="text" value="216.80"/>
Transportcontainer THE BARREL	3788	product	0 %	<input type="text" value="1"/>	<input type="text" value="20.97"/>	<input type="text" value="20.97"/>
Shipping		shipping	0 %	<input type="text" value="1"/>	<input type="text" value="6.90"/>	<input type="text" value="6.90"/>

Gesamtbuchungsbetrag: **244.67 EUR**

Transaktion für weitere Buchungen schließen

Figure 6.1: Capturing of Orders in OXID eSales.

Partial Capturing

Please find out if the capturing of partial amounts is supported by your NatWest Tyl contract. If this is not the case, it might happen that no further captures can be carried out.

6.3.2 Cancelling Orders

By clicking **Cancel** the transaction is **cancelled** and the amount reserved on the customer's card will be released immediately.

6.4 Refunding Orders

In order to refund orders, open the transaction tab (NatWest Tyl Transactions) and click on **Refund**. A new window will open up.

You can refund every item individually or any amount of your choice by modifying the total amount to pay or the amount of items.

Teil-Rückvergütung

Mit dem folgenden Formular können Sie eine Teil-Rückvergütung durchführen.

Name	SKU	Typ	Steuersatz	Menge	Gesamttotal (exkl. MwSt.)	Gesamttotal (inkl. MwSt.)
Trapez ION SOL KITE 2011	1401	product	0 %	<input type="text" value="1"/>	<input type="text" value="108,40"/>	<input type="text" value="108,40"/>
Shipping	shipping	shipping	0 %	<input type="text" value="1"/>	<input type="text" value="6,90"/>	<input type="text" value="6,90"/>

Gesamtrückvergütungsbetrag: EUR

Transaktion für weitere Rückvergütungen schließen

Figure 6.1: Refunds in OXID eSales for NatWest Tyl.

Maximal Refund

With our module it is not possible to refund more than 100% of the originally authorised amount.

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

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.) make sure that you set up the OXID Cron engine. Especially the update function allows you to automatically retrieve additional information or changes of your order directly via the API of NatWest Tyl. Please note it could be that in order to use the update feature it may be necessary that NatWest Tyl activates additional options in your account.

In order to use the timed operations, please schedule a cron job in your server to the following controller:

`http://urltoyourstore.com/index.php?cl=natwesttylcw_cron`

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:

MasterCard

Card number	5404 1070 0002 0010
Expiry Date	12/2020
CVC	123

Visa

Card number	4921 8180 8989 8988
Expiry Date	12/2020
CVC	123

Credit / Debit Card

Card number	4921 8180 8989 8988
Expiry Date	12/2020
CVC	123

Card number	5404 1070 0002 0010
Expiry Date	12/2020
CVC	123

8 Errors and their Solutions

You can find detailed information under <http://www.sellxed.com/en/faq>. 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 The Referrer URL appears in my Analytics Tool

When a customer and the notification are redirected via Header Redirection, the NatWest Tyl 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 Compatibility with Third-Party Plugins

The plugins listed below are compatible with our payment modules and allow you to handle certain tasks in an easier way.

9.1 Birthday and gender in OXID

For certain payment service providers it is necessary to check the birthday and the gender of a customer. OXID does not check this by default. These checks can be enabled under "Settings > Other Settings > Mandatory fields in User Registration Form".

10 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.

10.1 Log Levels

You can configure the log level in the NatWest Tyl settings.

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

10.2 Log Location

The log file is stored in the OXID log directory. Please make sure the folder and it is writable by the webserver. (Default Path: {shopRootDirectory}/logs/)

11 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.

11.1 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 OXID initialized in your script, this is required for the database connection.

```
require_once dirname(__FILE__) . "/bootstrap.php";
```

Include the module module classes.

```
require_once 'modules/customweb/natwesttylcw/classes/NatWestTylCwHelper.php';
```

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

Load the transaction by Id:

```
$transactionById = NatWestTylCwHelper::loadTransaction(transactionId);  
$transactionObject = $transactionById->getTransactionObject();
```