# OXID eSales Documentation

User manual OXID eShop eVAT module

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#### **Conventions**

The following conventions are used:

proportional font with grey background

For user input, code and URLs

Grey italic

For filenames, file paths and other italic highlighting

**Bold** 

For input fields and navigation paths

**Bold red** 

For warnings and important hints

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## **User Manual**

## **Table of contents**

C	opyright	nt	2
Li	cense		2
C	onventio	ions	3
C	ontact		3
Τā	able of c	contents	4
1	Intro	roduction	5
2	Syst	stem requirement	6
3	Insta	tallation	6
	3.1	Copying module files	6
	3.2	Preparing templates	6
	3.2.	.1 Adding missing blocks	6
	3.3	Deleting temporary files	8
4		ivation	
5	Conf	nfiguration	9
	5.1	Country VAT rates	9
	5.2	Products as TBE services	9
	5.3	User Location Evidence	9
	5.3.3	.1 Logic behind	9
	5.3.2	.2 Default evidence	9
	5.4	Compatibility with other modules	10
	5.4.3	.1 eVAT and PayPal	10
	5.4.2	.2 eVAT and invoicePDF module	10
	5.5	Place of business	11
6	Func	nctional description	11
	6.1	Frontend functionality	12
	6.1.	.1 TBE services in catalogue	12
	6.1.2	.2 TBE services during checkout	13
	6.2	Backend (admin) functionality	15
	6.2.	.1 Country VAT rates	15
	6.2.2	.2 Products as TBE services	16
	6.2.3	3 Manage TBE services via categories	16
	6.2.4	.4 Customer location evidences	17
	6.2.5	.5 Location evidences in order	18
	6.2.6	.6 VAT ID store date	18
	6.2.7	.7 Invoice PDF module changes	19
7	Exte	ending module	20
	7.1	How to write and add an additional evidence	20
	7.2	How to mark non-purchasable items in cart	21

#### **User Manual**

#### 1 Introduction

This module implements requirements that is to allow an OXID eShop to comply with the EU regulations as specified by the EU VAT directive 1042/2013 regarding VAT for telecommunications, broadcasting and electronic services. This regulation becomes active on the 1st of January 2015.

From the 1st of January a EU directive becomes active that states (in principle) that for telecommunications, broadcasting & electronic services (in the following TBE services), VAT has to be paid in the country where the customer belongs and no longer in the country of the supplier - irrespective of whether the end customer is a business (taxable person) or a non-taxable person (e.g a private individual).

You can find detailed information about the topic at the web pages of the European Commission: http://ec.europa.eu/taxation\_customs/taxation/vat/how\_vat\_works/telecom/index\_en.htm.

Module title: OXID eShop eVAT

Version: 1.0.0

Manufacturer: OXID eSales AG

Internet: www.oxid-esales.com E-mail: info@oxid-esales.com

#### 2 System requirement

The system requirements given below apply to eVAT module.

- PHP 5.3 or higher
- OXID eShop 4.7.\*/5.0.\*, 4.8.\*/5.1.\* or 4.9.\*/5.2.\*

#### 3 Installation

In this chapter, the installation of the eVAT module for the OXID eShop versions 4.7.\*/5.0.\*, 4.8.\*/5.1.\*, 4.9.\*/5.2.\* is described. Follow this guide step by step.

#### 3.1 Copying module files

Copy the contents of the /copy\_this folder into the root folder of your shop.

#### 3.2 Preparing templates

Additional files required for the use of the module in the shop can be found in the /changed\_full folder. The subfolder /changed\_full/modules contains standard module files as well as block files used for the "Azure" theme.

When installing the module in a shop without customized templates and files, you can copy all files from this folder directly to the shop.

Generally, and in particular in the case of a customized shop, you need to compare old and new templates and files and adopt recent changes. The changes made are documented in the following folders:

- /templ\_docu\_admin changes in /modules/oe/oevattbe/views/admin
- /templ\_docu\_blocks changes in /modules/oe/oevattbe/views/blocks

The folders containing the template documentation are only available in the installation package if changes were made in the respective templates and files.

#### 3.2.1 Adding missing blocks

eShop versions 4.7.\*/5.0.\*, 4.8.\*/5.1.\* and 4.9.\*/5.2.\* are missing some template blocks which are needed to work module properly, you'll have to add these blocks to your templates.

Missing blocks in eShop 4.7.\*/5.0.\* and 4.8.\*/5.1.\* (Blocks names and files names are given bellow): details\_productmain\_price\_value - /page/details/inc/productmain.tpl widget\_product\_boxproduct\_price\_value - /widget/product/boxproduct.tpl widget\_product\_bargainitem\_price\_value - /widget/product/bargainitem.tpl widget\_product\_compareitem\_price\_value - /widget/product/compareitem.tpl checkout\_basket\_next\_step\_bottom - /page/checkout/basket.tpl

```
checkout_order_next_step_bottom - /page/checkout/order.tpl
content_main - /layout/page.tpl
```

Missing blocks in eShop 4.9.\*/5.2.\* (Blocks names and files names are given bellow): details\_productmain\_price\_value - /page/details/inc/productmain.tpl widget\_product\_boxproduct\_price\_value - /widget/product/boxproduct.tpl widget\_product\_bargainitem\_price\_value - /widget/product/bargainitem.tpl widget\_product\_compareitem\_price\_value - /widget/product/compareitem.tpl

Places where these blocks should be added (line numbers might not match):

## /page/details/inc/productmain.tpl 253-276 details\_productmain\_price\_value

```
252: [{oxhasrights ident="SHOWARTICLEPRICE"}]
253: [{block name="details_productmain_price_value"}]
276: [{/block}]
278: [{/oxhasrights}]
```

#### /widget/product/boxproduct.tpl 16-38 widget\_product\_boxproduct\_price\_value

```
15: [{oxhasrights ident="SHOWARTICLEPRICE"}]
16: [{block name="widget_product_boxproduct_price_value"}]
38: [{/block}]
39: [{/oxhasrights}]
```

## /widget/product/bargainitem.tpl 21-49 widget\_product\_bargainitem\_price\_value

```
15: [{oxhasrights ident="SHOWARTICLEPRICE"}]
16: [{if $_product->getTPrice()}]
17: <span class="priceOld">
18: [{ oxmultilang ident="REDUCED_FROM_2" }] <del>[{oxprice price=$_product->getTPrice()}
currency=$oView->getActCurrency()}]</del>
19: </span>
20: [{/if}]
21: [{block name="widget_product_bargainitem_price_value"}]
49: [{/block}]
50: {/oxhasrights}]
```

## /widget/product/compareitem.tpl 94-106 widget\_product\_compareitem\_price\_value

```
93: [{oxhasrights ident="SHOWARTICLEPRICE"}]
94: [{block name="widget_product_compareitem_price_value"}]
106: [{/block}]
107: [{if $product->loadAmountPriceInfo()}]
108: [{oxscript include="js/widgets/oxamountpriceselect.js" priority=10 }]
```

```
109: [{include file="page/details/inc/priceinfo.tpl" oDetailsProduct=$product]
110: [{/if}]
111: [{/oxhasrights}]
```

## /page/checkout/basket.tpl 80-109 checkout\_basket\_next\_step\_bottom

```
80: [{block name="checkout_basket_next_step_bottom"}]
81: <div class="lineBox clear">
82: [{if $oView->showBackToShop()}]
108: </div>
109: [{/block}]
110: [{/if}]
111: [{if $oView->isWrapping()}]
112: [{include file="page/checkout/inc/wrapping.tpl"}]
113: [{/if}]
```

## /page/checkout/order.tpl 167-213 checkout\_order\_next\_step\_bottom

```
163: [{block name="order_basket"}]
164: [{include file="page/checkout/inc/basketcontents.tpl" editable=false}]
165: [{/block}]
167: [{block name="checkout_order_next_step_bottom"}]
168: [{if $oView->isLowOrderPrice()}]
210: </form>
211: [{/block}]
212: [{/if}]
213: [{/block}]
```

## /layout/page.tpl 21-26 content\_main

```
20: <div id="content">
21: [{block name="content_main"}]
22: [{include file="message/errors.tpl"}]
23: [{foreach from=$oxidBlock_content item="_block"}]
24: [{$_block}]
25: [{/foreach}]
26: [{/block}]
```

#### 3.3 Deleting temporary files

Delete all files and folders except for .htaccess from the /tmp folder of your shop.

#### 4 Activation

The module has to be activated in the shop. In the **Overview** tab of the module, click the **Activate** button.

## 5 Configuration

After module activation you need to configure module:

- Add VAT rates for countries
- Mark product as TBE services, and add VAT rates for different countries for this product
- Configure location evidence collectors

#### 5.1 Country VAT rates

VAT rates are already preconfigured for EU countries. During module activation general and reduced VAT rates for EU countries will be imported. You can find out more about VAT rates in "6.2.1 Country VAT rates".

**Important:** shop owner is responsible for validity of VAT rate groups setup:

- Countries which applies EU VAT directive must be marked to apply eVAT module VAT rates;
- Countries VAT rates must be configured.

#### 5.2 Products as TBE services

Products data is not configured out of the box. You need to configure all TBE products define appropriate VAT group per country. You can find out more information how to configure Products in "6.2.2 Products as TBE services".

#### 5.3 User Location Evidence

#### 5.3.1 Logic behind

EU VAT directive 1042/2013 require that Shop would find out customer location and apply VAT according to his country. This directive tells that customer location must be found out by at least two evidences. Location provided by customer cannot be used as evidence. OXID eShop eVAT module provides one rule how to find out customer location country and mechanism how to add additional evidence finding algorithms.

#### 5.3.2 Default evidence

OXID eShop eVAT module use two algorithms to find out customer location: billing address and geo location (based on customer IP address). Currently the geo location evidence is prepared but not yet implemented.

One of the evidence has highest value than others as those evidences might be contradicted. By default billing address is the default one. For example customer location is Austria if customer billing address is Austria; even geo location said that it is Ireland. If default evidence cannot determine user country, first

active evidence with determined user country will be used. Default evidence can be specified in module configuration screen where evidence id should be entered.

You can find out more information about evidences and their configuration in "6.2.4 How to configure customer location evidences" chapter of this document and how to extend with other evidences in chapter "7.1 How to write and add additional evidence".

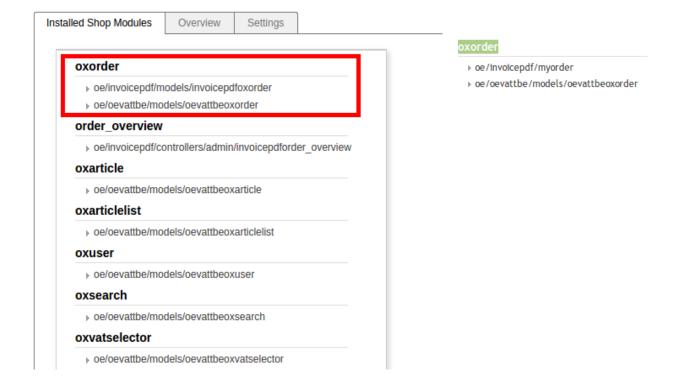
#### 5.4 Compatibility with other modules

#### 5.4.1 eVAT and PayPal

Taking in account that for anonymouse user we can not calculate TBE service final price, because it depends on users residence country. PayPal module's express checkout functionality is not compatible with TBE services.

#### 5.4.2 eVAT and invoicePDF module

If InvoicePdf module is used in eShop some configuration must be done. Chain of classes which are overloaded can be configured wrongly, so there is need to check them. Go to **Extensions** -> **Modules** -> **Installed Shop Modules**. List of overloaded classes will be displayed. Class "oxorder" must be overloaded in this order (from top to bottom): *invoicepdfoxorder* (*myorder in shop 5.1 and 5.0*), *oevattbeoxorder*. Check the image bellow.



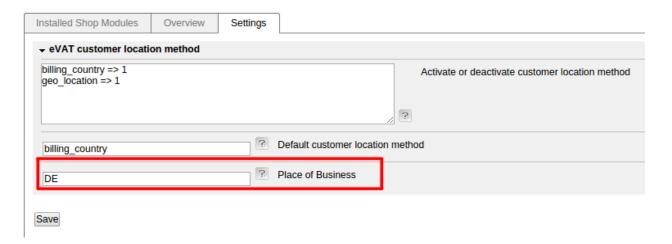
If classes order is not as described before they should be changed by dragging them to correct order and than saved by clicking **Save** button.

#### 5.5 Place of business

Place of business is used to determine if customer is from the same country as eShop.

If user is from the same location as place of business, default shop behaviour to calculate VAT is used. Also no messages or notification marks are shown for TBE services.

To configure it go to Extensions -> Modules -> OXID eShop eVAT -> Settings and set Place of Business country code in ISO2 format.



Note: If no code or incorrect code is entered eShop acts like no place of business is defined.

## 6 Functional description

This module change how Shop calculates VAT for TBE products. Shop without module always use Shop VAT rate which should be configured by the Shop location country. With this module Shop separate products in to two groups: TBE and Not TBE services. Not TBE services are calculated with default Shop VAT rate (regular way). TBE products are calculated with user location country VAT rate.

Shop with module would apply VAT depending on Shop location and customer location.

EU located Shop supplying for customer:

1. Business in another EU country	No VAT charged.
	Customer must account for the tax (reverse-charge mechanism).

2. Consumer in another EU country	Must charge VAT in the EU country where the customer belongs (not where the business is based).
3. Business or consumer outside the EU	No EU VAT charged.  But if the service is <b>effectively used &amp; enjoyed</b> in an EU country, that country can decide to levy VAT.

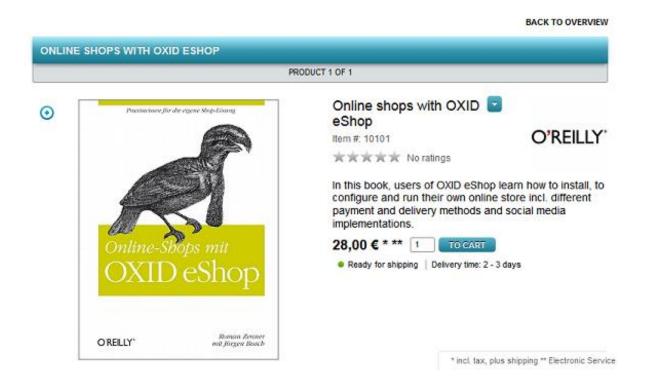
## NON-EU located Shop supplying for customer:

1. Business in the EU	No VAT charged.
	Customer must account for the tax (reverse-charge mechanism).
Consumer in the EU (telecoms, broadcasting or electronic services)	Must charge VAT in the EU country where the customer belongs.
3. Business or consumer outside the EU	No EU VAT charged.

## **6.1** Frontend functionality

## **6.1.1** TBE services in catalogue

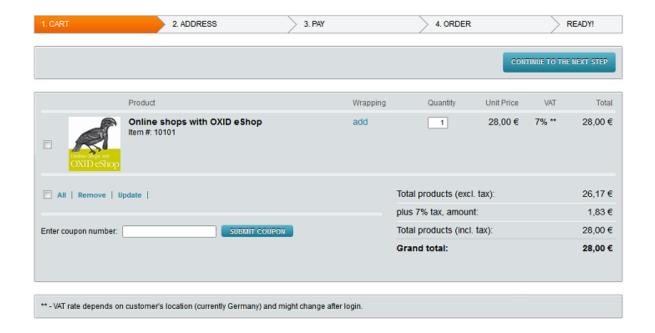
Shop can have various products: TBE service and not. So in all Category lists, details pages, start page and other places (except checkout) TBE services are marked with two stars \*\*.



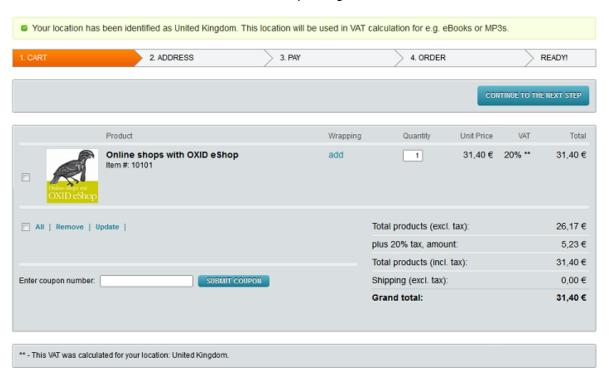
There is the link at the bottom of the page. This link leads to the page that explains rules how VAT is calculated. To define the content of this page go to **Customer Info** -> **CMS Pages**. Select CMS page with the identification "oxdeliveryinfo". Change the content of this page.

#### 6.1.2 TBE services during checkout

In First checkout step – basket overview products which are TBE services VAT rate is shown with "stars". At the bottom of basket explanation message is shown. This message explains that this VAT rate will be changed after user will log in.



The VAT rate is calculated according to collected evidences and explanation message shows which country is used for calculation when user is logged in. User is informed that country is changed and VAT will be recalculated when user residence country changes.



There can be situation when shop is not configured for some EU countries. So after user login with this billing country error will be shown. And of course you can proceed with order if there such situation.

## 6.2 Backend (admin) functionality

In backend you can configure:

- Country VAT groups
- Products as TBE services
- Location evidences

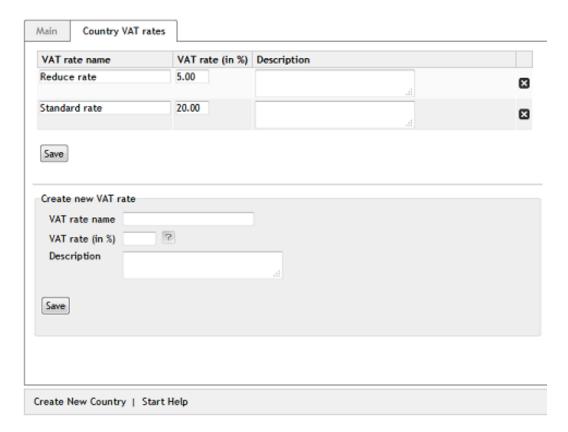
#### Also:

- Added information about stored VAT ID date
- In order added information about collected location evidences

#### 6.2.1 Country VAT rates

In order to use configured country VAT rates, country should be marked as **Apply TBE VAT rates** in **Master setting** -> **Countries** -> **Main**.

To configure (create, update) VAT rates go to **Master setting** -> **Countries** -> **Country VAT rates**. At the bottom of the tab, there is new VAT rate creation form. Mandatory fields are VAT rate name and VAT rate. In the list above form, you can edit information, after that just push button save. If there is a need to delete group just click on [X] in the right column.

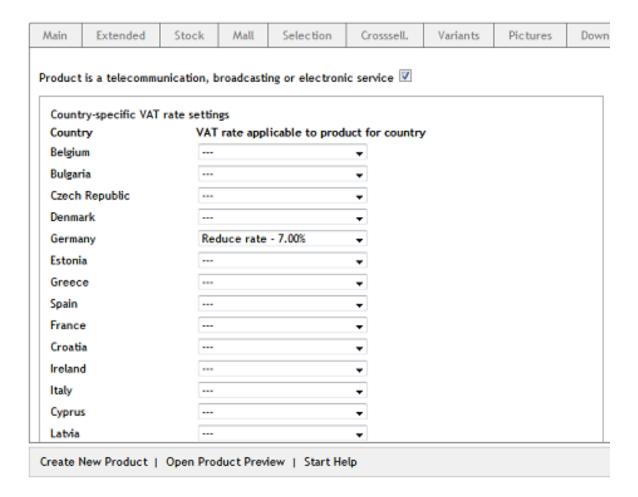


Note: Countries are for all subshops so editing country VAT groups will affect all shops.

#### 6.2.2 Products as TBE services

To configure a product as TBE services go to **Administer Products** -> **Products** choose a product and open the **eVAT Settings** tab.

Define product as TBE service by marking checkbox and select proper VAT rate group for each country. Press **Save** to save data. Note: Product can only be edited in main shop.



## **6.2.3** Manage TBE services via categories

Module provides possibility to configure products using categories. To do this go to **Administer Products** -> **Categories** -> **eVAT Settings**. A page with possible options will be displayed. All products which are in the selected category will be updated according selected options, when button **Save** will be clicked.



**Important**: Existing eVAT settings will be overwritten with the new settings for all products, which are in the selected category.

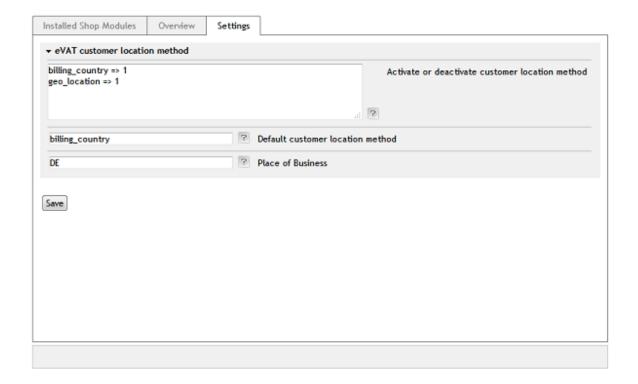
## 6.2.4 Customer location evidences

Registered evidences can be activated or deactivated in **Settings** tab of the module. It is also possible to specify which evidence should be used as default.

Evidences can be activated or deactivated by changing evidence value to 1 (active) or 0 (inactive). Only active evidences will be used in user country calculations and stored in order information. For example to deactivate billing\_country evidence, its value should be changed to zero.

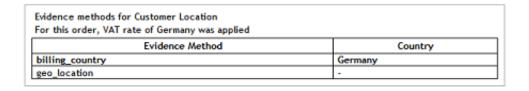
```
billing_country => 0
geo location => 1
```

To change default evidence, enter evidence id to the input field (change billing\_country to geo\_location in this case). In case default evidence cannot be found or no default evidence is specified, first evidence with non-empty country will be used.



#### 6.2.5 Location evidences in order

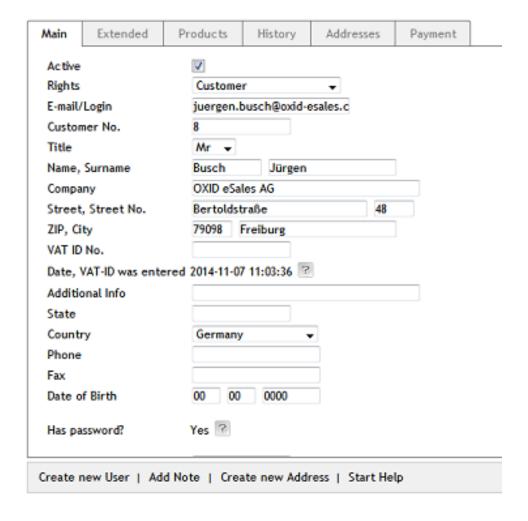
Module have possibility to collect and display evidences of customer location. It is displayed only when order have at least one TBE product in order. This information can be found in **Administer Orders** -> **Orders**. Select any order that has TBE products and open the **Main** tab. Information are displayed in a table at the bottom.



From the image, you can see that for this order TBE services Germany VAT rate is used. There are also displayed evidences that were used to check the country. Evidence billing\_country shows Germany, and evidence geo\_location does not show any country because there is no result of evidence.

## 6.2.6 VAT ID store date

Module has feature to store first date when VAT ID (VAT Identification number) of customer was provided. For new registered users if VAT ID was valid, it is stored during user registration. If user provides VAT ID later, it will be stored. User can provide it during checkout or changed in account settings. To see the date when VAT ID was provided go to **Administer Users** -> **Users** and select an user.



## 6.2.7 Invoice PDF module changes

eVAT module adds some changes to invoice PDF file. If an order has TBE services, a mark \* is shown near VAT rate in the invoice. There is also a short explanation about it and a hint of the country which VAT rate was used for calculation.

#### 7 Extending module

In this section we will describe how to extend current module by adding additional evidence collectors.

#### 7.1 How to write and add an additional evidence

To add additional customer location evidences you need to write location evidence class and register it.

- Evidence class must extend oeVATTBEEvidence class to have required interface.
- This class should be registered with oeVATTBEEvidenceRegister::registerEvidence().
- This class should be unregistered with oeVATTBEEvidenceRegister::unregisterEvidence() when it
  is no longer available.

This can be done by <u>creating a module</u> containing new evidence classes and registering them in module's onActivate() and onDeactivate() events. New evidence classes must be registered in module's metadata.

```
public static function onActivate()
{
    if (class_exists('oeVATTBEEvidenceRegister')) {
        $oConfig = oxRegistry::getConfig();
        /** @var oeVATTBEEvidenceRegister $oEvidenceRegister */
        $oEvidenceRegister = oxNew('oeVATTBEEvidenceRegister', $oConfig);
        $oEvidenceRegister->registerEvidence('oeVATTBEExtendedEvidence1');
        $oEvidenceRegister->registerEvidence('oeVATTBEExtendedEvidence2');
    }
}

public static function onDeactivate()
{
    if (class_exists('oeVATTBEEvidenceRegister')) {
        $oConfig = oxRegistry::getConfig();
        /** @var oeVATTBEEvidenceRegister $oEvidenceRegister */
        $oEvidenceRegister = oxNew('oeVATTBEEvidenceRegister', $oConfig);
        $oEvidenceRegister->unregisterEvidence('oeVATTBEExtendedEvidence1');
        $oEvidenceRegister->unregisterEvidence('oeVATTBEExtendedEvidence2');
    }
}
```

If module will not unregister added evidences on deactivation, those evidences will be removed on next user country calculation. Module with additional evidences must be activated only when eVAT module is active, otherwise oeVATTBEEvidenceRegister will not be found.

Example module can be found in the folder /documentation/countryEvidenceExampleModule of the installation package.

Currently oeVATTBEGeoLocationEvidence evidence class is a dummy class only and should be implemented. This can also be done by extending this class with module and implementing oeVATTBEGeoLocationEvidence::getCountryId() method.

#### 7.2 How to mark non-purchasable items in cart

In some cases a product cannot be sold because its VAT cannot be calculated. For example, it might be because product is marked as TBE, but no VAT rate assigned for buyer country. In this case default module behaviour is to show a notice and announce which products cannot be sold. However buyer needs to find those products in cart list and remove them manually.

CSS class can be added to mark non-purchasable products differently. Change template /tpl/page/checkout/inc/basketcontents.tpl to add additional CSS class. Information if product is purchasable can be received from controller method isOeVATTBETBEArticleValid.

```
[{foreach key=basketindex from=$oxcmp_basket->getContents() item=basketitem
name=basketContents}]
   [{block name="checkout_basketcontents_basketitem"}]
   ....
   isOeVATTBETBEArticleValid()}] oeVATTBEBasketItemInvalid[{/if}]"
   id="cartItem [{$smarty.foreach.basketContents.iteration}]">
```

Add CSS class to module CSS file /oe/oevattbe/out/src/css/vattbe.css or to your Shop theme.

```
....
.oeVATTBEBasketItemInvalid {
   background-color: #e70404;
}
```

