

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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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: 2.0
Manufacturer: OXID eSales AG
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2 System requirement

The system requirements given below apply to eVAT module.

- PHP 5.6 or higher
- OXID eShop 6.0.*

3 Installation

This chapter describes the installation of the eVAT module for the OXID eShop versions 6.0.*. The eVAT module has to be installed with composer, an application-level package manager for the PHP programming language. Please find detailed instructions in the README.md file of the GitHub Repository.

3.1 Activating the module

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

3.2 Deleting temporary files

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

4 Configuration

After module activation you need to configure module:

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

4.1 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 "5.2.1 Country VAT rates".

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.

4.2 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 "5.2.2 Products as TBE services".

4.3 User Location Evidence

4.3.1 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.

4.3.2 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".

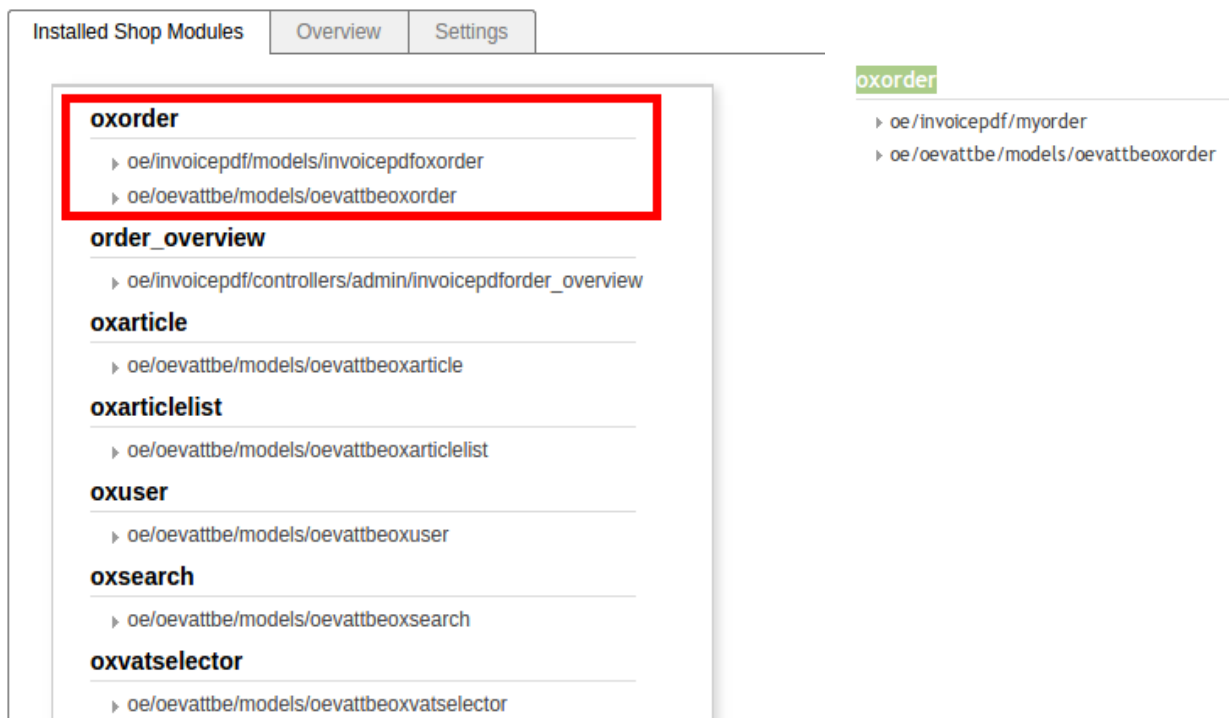
4.4 Compatibility with other modules

4.4.1 eVAT and PayPal

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

4.4.2 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): *invoicepdforder*, *oenvattbeoxorder*. Check the image below.



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

4.5 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.

Installed Shop Modules
Overview
Settings

▼ eVAT customer location method

billing_country => 1
geo_location => 1

Activate or deactivate customer location method

billing_country

Default customer location method

DE

Place of Business

Save

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

5 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	<p>No VAT charged.</p> <p>Customer must account for the tax (reverse-charge mechanism).</p>
2. Consumer in another EU country	<p>Must charge VAT in the EU country where the customer belongs (not where the business is based).</p>
3. Business or consumer outside the EU	<p>No EU VAT charged.</p> <p>But if the service is effectively used & enjoyed in an EU country, that country can decide to levy VAT.</p>

NON-EU located Shop supplying for customer:

1. Business in the EU	No VAT charged. Customer must account for the tax (reverse-charge mechanism).
2. 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.

5.1 Frontend functionality


5.1.1 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 **.

BACK TO OVERVIEW

ONLINE SHOPS WITH OXID ESHOP

PRODUCT 1 OF 1



Online shops with OXID eShop

Item #: 10101

★★★★★ No ratings

In this book, users of OXID eShop learn how to install, to configure and run their own online store incl. different payment and delivery methods and social media implementations.

28,00 € * ** 1 [TO CART](#)

● Ready for shipping | Delivery time: 2 - 3 days

* incl. tax, plus shipping ** Electronic Service

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.

5.1.2 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.

1. CART


2. ADDRESS

3. PAY

4. ORDER

READY!

CONTINUE TO THE NEXT STEP

Product	Wrapping	Quantity	Unit Price	VAT	Total
 Online shops with OXID eShop Item #: 10101	add	1	28,00 €	7% **	28,00 €

☐ All | Remove | Update |

Enter coupon number:

Total products (excl. tax):	26,17 €
plus 7% tax, amount:	1,83 €
Total products (incl. tax):	28,00 €
Grand total:	28,00 €

** - VAT rate depends on customer's location (currently Germany) and might change after login.

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.

✔ Your location has been identified as United Kingdom. This location will be used in VAT calculation for e.g. eBooks or MP3s.

1. CART


2. ADDRESS

3. PAY

4. ORDER

READY!

CONTINUE TO THE NEXT STEP

Product	Wrapping	Quantity	Unit Price	VAT	Total
 Online shops with OXID eShop Item #: 10101	add	1	31,40 €	20% **	31,40 €
Total products (excl. tax):					26,17 €
plus 20% tax, amount:					5,23 €
Total products (incl. tax):					31,40 €
Shipping (excl. tax):					0,00 €
Grand total:					31,40 €

Enter coupon number:

** - This VAT was calculated for your location: United Kingdom.

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.

5.2 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

5.2.1 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.

VAT rate name	VAT rate (in %)	Description	
Reduce rate	5.00		X
Standard rate	20.00		X

Save

Create new VAT rate

VAT rate name

VAT rate (in %) ?

Description

Save

Create New Country | Start Help

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

5.2.2 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.

Main	Extended	Stock	Mall	Selection	Crosssell.	Variants	Pictures	Down																														
Product is a telecommunication, broadcasting or electronic service <input checked="" type="checkbox"/>																																						
<div>Country-specific VAT rate settings</div> <table><thead><tr><th>Country</th><th>VAT rate applicable to product for country</th></tr></thead><tbody><tr><td>Belgium</td><td>---</td></tr><tr><td>Bulgaria</td><td>---</td></tr><tr><td>Czech Republic</td><td>---</td></tr><tr><td>Denmark</td><td>---</td></tr><tr><td>Germany</td><td>Reduce rate - 7.00%</td></tr><tr><td>Estonia</td><td>---</td></tr><tr><td>Greece</td><td>---</td></tr><tr><td>Spain</td><td>---</td></tr><tr><td>France</td><td>---</td></tr><tr><td>Croatia</td><td>---</td></tr><tr><td>Ireland</td><td>---</td></tr><tr><td>Italy</td><td>---</td></tr><tr><td>Cyprus</td><td>---</td></tr><tr><td>Latvia</td><td>---</td></tr></tbody></table>									Country	VAT rate applicable to product for country	Belgium	---	Bulgaria	---	Czech Republic	---	Denmark	---	Germany	Reduce rate - 7.00%	Estonia	---	Greece	---	Spain	---	France	---	Croatia	---	Ireland	---	Italy	---	Cyprus	---	Latvia	---
Country	VAT rate applicable to product for country																																					
Belgium	---																																					
Bulgaria	---																																					
Czech Republic	---																																					
Denmark	---																																					
Germany	Reduce rate - 7.00%																																					
Estonia	---																																					
Greece	---																																					
Spain	---																																					
France	---																																					
Croatia	---																																					
Ireland	---																																					
Italy	---																																					
Cyprus	---																																					
Latvia	---																																					
Create New Product Open Product Preview Start Help																																						

5.2.3 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.

Main
Text
Picture
Sorting
Mall
Rights
SEO
eVAT Settings

Products in this category are electronic services ☐

Country-specific VAT rate settings

Country	VAT rate for electronic services
Belgium	---
Bulgaria	---
Czech Republic	---
Denmark	---
Germany	---
Estonia	---
Greece	---
Spain	---
France	---
Croatia	---
Ireland	---
Italy	---
Cyprus	---
Latvia	---

Create New Category | Re-Index Category Tree | Reset Number of Products in Categories | Start Help

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

5.2.4 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.

Installed Shop Modules Overview **Settings**

▼ eVAT customer location method

billing_country => 1
geo_location => 1

Activate or deactivate customer location method

billing_country ? Default customer location method

DE ? Place of Business

Save

5.2.5 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.

Evidence methods for Customer Location	
For this order, VAT rate of Germany was applied	
Evidence Method	Country
billing_country	Germany
geo_location	-

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.

5.2.6 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.

Main	Extended	Products	History	Addresses	Payment
------	----------	----------	---------	-----------	---------

Active	<input checked="" type="checkbox"/>
Rights	Customer
E-mail/Login	juergen.busch@oxid-esales.c
Customer No.	8
Title	Mr
Name, Surname	Busch Jürgen
Company	OXID eSales AG
Street, Street No.	Bertoldstraße 48
ZIP, City	79098 Freiburg
VAT ID No.	
Date, VAT-ID was entered	2014-11-07 11:03:36 ?
Additional Info	
State	
Country	Germany
Phone	
Fax	
Date of Birth	00 00 0000
Has password?	Yes ?

Create new User | Add Note | Create new Address | Start Help

5.2.7 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.

6 Extending module

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

6.1 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 [creating a module](#) 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('oeVATTBEEExtendedEvidence1');
        $oEvidenceRegister->registerEvidence('oeVATTBEEExtendedEvidence2');
    }
}

public static function onDeactivate()
{
    if (class_exists('oeVATTBEEvidenceRegister')) {
        $oConfig = oxRegistry::getConfig();
        /** @var oeVATTBEEvidenceRegister $oEvidenceRegister */
        $oEvidenceRegister = oxNew('oeVATTBEEvidenceRegister', $oConfig);
        $oEvidenceRegister->unregisterEvidence('oeVATTBEEExtendedEvidence1');
        $oEvidenceRegister->unregisterEvidence('oeVATTBEEExtendedEvidence2');
    }
}
```

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.

6.2 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=$oxcmp_basket->getContents() item=basketitem
name=basketContents}]
    [{block name="checkout_basketcontents_basketitem"}]
    ....
    <tr class="basketItem
    [{if !$oView->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;
}
```

1. CART




2. ADDRESS

3. PAY

4. ORDER

READY!

CONTINUE TO THE NEXT STEP

	Product	Wrapping	Quantity	Unit Price	VAT	Total
<input type="checkbox"/>	<div><div></div><div><div>Transport container BARREL</div><div>Item #: 3788</div><div>Label: <input type="text"/></div></div></div>	add	<input type="text" value="1"/>	24,95 €	19%	24,95 €
<input type="checkbox"/>	<div><div></div><div><div>Harness SOL KITE</div><div>Item #: 1401</div></div></div>	add	<input type="text" value="1"/>	129,00 €	-	129,00 €
<input type="checkbox"/>	<div><div></div><div><div>Kite CORE GTS</div><div>Item #: 1208</div><div>Allround, kite, backpack, repair kit</div></div></div>	add	<input type="text" value="1"/>	791,10 € 879,00 €	19%	791,10 €

☐ All | Remove | Update |

Total products (excl. tax):

794,16 €

plus 19% tax, amount:

150,89 €

Total products (incl. tax):

945,05 €

Grand total:

945,05 €

Enter coupon number:

SUBMIT COUPON

CONTINUE TO THE NEXT STEP