



Documentation pixi\* connector

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# Documentation pixi\* connector

## Description

pixi \* offers as **Magento 2** module a URL-based interface from Pixi based on **BMECat** and **OpenTrans** to **Magento**.

- **Export** of product data from Magento to **pixi \***
- **Import** of inventory changes from **pixi \*** to **Magento**
- **Export** of orders from Magento to **pixi \***
- **Import** of order status changes from **pixi \*** to **Magento**
- **Supported product types:**
  - simple-products (as simple stand-alone products and as an image of physical storage)
- **Support of different, individual project requirements via configuration in the Magento backend:**
  - **Any product** attributes as product identification and **EAN** in **pixi \***
  - **Possibility** of assigning any number of manufacturer article numbers
  - **Any tax configurations** through the option of assigning the article tax classes between **Magento** and **pixi \***
  - **Any Magento payment** and shipping methods through the possibility of assigning payment methods and shipping service providers from **pixi \***
  - **Special Magento order status**, these can be configured individually for each situation provided by **pixi \***.
- **Support** for further processing of orders by the **pixi \*** PayOne app by transferring the transcription IDs to **pixi \*** (Please ask **pixi \*** for more details on terminology)
- **Easily adaptable and updateable** to special requirements via **Magento** Observer logic, which cannot be mapped via configuration (partly already implemented)

## Links

- [Example Interface](#)
- **BMECat** - Standardized exchange format for catalog data in catalog management
- **OpenTrans** - Open standard to support electronic data exchange
- [www.pixi.eu](http://www.pixi.eu) - Flexible and scalable solution for order processing.
- [www.magento.com](http://www.magento.com) The world's most flexible commerce software.

# Requirements

## Magento Version Compatibility

Magento Version	Latest Version
Magento <b>2.4.x</b> Opensource (CE) / Commerce (EE)	<code>composer require techdivision/pixi ^2.0</code>
Magento <b>2.4.x</b> Opensource (CE) / Commerce (EE)	<code>composer require techdivision/pixi-msi ^2.0</code>
Magento <b>2.3.x</b> Opensource (CE) / Commerce (EE)	<code>composer require techdivision/pixi ^1.0</code>
Magento <b>2.3.x</b> Opensource (CE) / Commerce (EE)	<code>composer require techdivision/pixi-msi ^1.0</code>

# Installation / Deinstallation

## Installation techdivision/pixi mit Composer

```
# add to repositories
composer config repositories.techdivision.pixi vcs
https://gitlab.met.tdintern.de/techdivision/pixi.git

# use composer require for Magento 2.2.x or 2.3.x
composer require techdivision/pixi ^1.7

# use composer require for Magento 2.4.x
composer require techdivision/pixi ^2.2

# run magento setup to activate the module
bin/magento set:up
```

## Installation techdivision/pixi-msi mit Composer

```
# add to repositories
composer config repositories.techdivision.pixi-msi vcs
https://gitlab.met.tdintern.de/techdivision/pixi-msi.git

# add to composer require
composer require techdivision/pixi-msi

# run magento setup to activate the module
bin/magento set:up
```

## Aktivieren des Pixi Moduls

Das Pixi Modul ist bei Default nach der Installation im Magento Backend aktiviert, das bedeutet, dass das Modul nun im Backend sichtbar ist und zur weiteren Configuration bereit steht.

## Deinstallation

Folgende Punkte sind bei einer Deinstallation eines Moduls stets zu beachten:

- Gibt es Einträge in der Datenbank, die vor dem deinstallieren bereinigt werden müssen?
- Sind evtl. Media Files (Images, Videos ect.) vorhanden, die vorab bereinigt werden müssen?
- Gibt es Konfigurationspfade in der Config (DB), die entfernt werden müssen?
- Caches entleeren
- Indexer neu starten wenn notwendig

# Required Configuration in pixi\* Control Center

We suggest to create a new channel (**Tools > Options > Edit Channels**) with the following configuration:

<b>URL Authorization</b>	pixi/api/login?username=\$\$\$username\$\$\$&password=\$\$\$password\$\$\$
<b>Confirm Catalog URL</b>	pixi/api/confirmCatalog?sid=\$\$\$session\$\$\$&date=\$\$\$date\$\$\$
<b>Confirm Order URL</b>	pixi/api/confirmOrder?sid=\$\$\$session\$\$\$&order_id=\$\$\$orders_id\$\$\$
<b>Export Catalog URL</b>	pixi/api/exportCatalog?sid=\$\$\$session\$\$\$
<b>Export Order URL</b>	pixi/api/exportOrders?sid=\$\$\$session\$\$\$
<b>Import Stock URL</b>	pixi/api/importStock?sid=\$\$\$session\$\$\$&data=\$\$\$data\$\$\$
<b>Import Order Status URL</b>	pixi/api/importOrderStatus?sid=\$\$\$session\$\$\$&data=\$\$\$data\$\$\$
<b>Shop URL</b>	Must match the shop's <b>Base-URL</b> , but excluding any store-codes <b>Example:</b> <a href="https://www.example-shop.com/index.php/">https://www.example-shop.com/index.php/</a>
<b>Shop Password</b>	Must match the Password configured in <b>Magento</b>
<b>Shop Username</b>	Must match the Username configured in <b>Magento</b>

## General Configuration

Navigieren Sie zu [BE >> Stores >> Settings >> Configuration >> TechDivision](#) [ pixi\* ]

<b>Enable</b>	Yes/No	<b>If disabled, calls from pixi to this system will be ignored.</b>   disables authorization in development mode
<b>Environment</b>	Production/Development/ Development (does not change any data)	<b>Mainly for development purposes:</b> disables authorization in development mode
<b>Extended Logging</b>	Yes/No	If <b>Yes</b> a additional logging is active
<b>Shop ID</b>	1	Must match the Shop ID provided by <b>pixi</b> *.   By Default the setting is set to 1
<b>Shop Type</b>	B2C-Shop/B2B-Shop	Provides different tax-handling for <b>B2B</b> and <b>B2C</b> stores
<b>Location ID</b>	001	Must match the Location ID provided by <b>pixi</b> *   Tells <b>pixi</b> from which shop it is importing (for example live/test/...), default is 001 (optional).
<b>Database Name</b>	Name of Database	Must match the Database Name provided by <b>pixi</b> *

## Authorization

<b>Username</b>	pixi	Must match the username used in channel configuration of <b>pixi</b> * Control Center (see next section)
<b>Password</b>	secret password	Must match the password used in channel configuration of <b>pixi</b> * Control Center (see next section)
<b>Session Lifetime</b>	600	Determines how long a session key is valid, default value: 600 seconds

## Product Export

Title	Default	Description
<b>Product Identification</b>	SKU	The product identification is by default set to <b>SKU</b> , but in general it is possible to choose any other field provided from <b>Magento</b>
<b>EAN Attribute</b>	No Attribute selected (EAN will not be supported)	Allows the configuration of a <b>Magento</b> attribute containing <b>EAN</b> . <b>Note:</b> EAN is optional in <b>pixi</b> *
<b>Supplier Price Attribute</b>	none	Select a product attribute from a given product attribute selection.
<b>Manufacturer Attribute</b>	Manufacturer	Define the product attribute where the Manufacturer name is defined.
<b>Internal Item Number Attribute</b>	none	Optional informal product identifier.
<b>Supplier Attribute</b>	Manufacturer	Define the product attribute where the supplier name is defined. By default the <b>Manufacturer</b> attribute is set.
<b>Supplier Mapping</b>	Supplier Name   Product Attribute	Allows the configuration of multiple supplier IDs. It must be provided as a mapping between a supplier's ID (left column) and the code of a <b>Magento</b> attribute, that contains the value (right column). <b>Default value:</b> MGS & SKU <b>Note:</b> The string <b>ID</b> is added to a supplier ID during a export and must not be included in the configuration.
<b>Tax Mapping</b>	Magento Product Class   pixi Tax Class	Allows the mapping between <b>Magento</b> product tax classes (left column) to <b>pixi</b> * tax classes (right column). <b>Note:</b> all used <b>Magento</b> product tax classes must to be mapped.
<b>pixi* Item Tags</b>	none	Select an attribute with semicolon separated tags or multiple attributes individually
<b>Serialnumber Required</b>	none	Attribute that defines whether a "serial number" is required in <b>pixi</b> *
<b>Batch Number Required</b>	none	Attribute that defines whether a "batch number" is required in <b>pixi</b> *
<b>Best Before Date Required</b>	none	Attribute that defines whether a "best before date" is required in <b>pixi</b> *
<b>Customs Tariff Number</b>	none	Attribute that defines whether a "Customs Tariff Number" is set for <b>pixi</b> *
<b>Customs Country Of Origin</b>	none	Attribute that defines whether a "Customs Country Of Origin" is set for <b>pixi</b> *
<b>Customs Tariff Text</b>	none	Attribute that defines whether a "Customs Tariff Text" is set for <b>pixi</b> *
<b>Additional Product Types</b>		Add comma separated product types for export e.g. "downloadable, configurable". Default "simple" will always exported.

## Order Export

Title	Default	Description
<b>Export only from specific order state</b>	No	Is set to <b>No</b> by Default
<b>Order state to export</b>	Multiselect for order state	Only if "Export only from specific order state" is set to <b>yes</b>

<b>Identification of order in pixi</b>	Entity-Id (Default)	is used to identify a given order in the <b>pixi</b> * context
<b>Customer Identifier (Guests)</b>	E-Mail	Defines the attribute with which an existing customer (guest checkout) gets identified in <b>pixi</b> *
<b>Customer Identifier (Registered)</b>	E-Mail	Defines the attribute with which an existing registered customer gets identified in <b>pixi</b> *
<b>Export delay</b>	No delay	Defines the delay which has to be passed before an order gets exported to <b>pixi</b> *
<b>Retry unconfirmed exports after</b>	5 minute	that must have elapsed before a job that could not be exported is rechecked.
<b>Payment Service Provider</b>	no special configuration	Allows to enable special handling for certain payment providers. At the moment only Payone is supported.   <b>The Default value disables special handling</b>
<b>Payment Method Mapping</b>		Allows mapping between <b>Magento</b> payment-method and <b>XML Tag</b> from table <b>Payment Types</b> of <b>pixi</b> Control Center.   <b>Note:</b> all used Magento payment methods need to be mapped
<b>Shipping Carrier Mapping</b>		Allows mapping between <b>Magento</b> shipping-method and <b>Vendor Code</b> from table <b>Shipping Vendors</b> of <b>pixi</b> * Control Center.   <b>Note:</b> all used <b>Magento</b> shipping methods need to be mapped
<b>pixi address ZIPBOX</b>		Own ZIPBOX field in sales_order_address e.g. <b>house_number</b>
<b>Maximum number of lines in a street address</b>	1	Address block in magento has up to 3 lines
<b>Delimiter to concat street lines</b>	, (Comma)	The separator between the address fields

## Order Status Mapping

<b>NEW: New order, manually added in pixi</b> *	Pending
<b>HAL: Waiting for payment authorization or receipt</b>	Processing
<b>ANG: Order is approved to be shipped</b>	Processing
<b>EIN: Products are in the box</b>	Processing
<b>AUS: Products are shipped</b> Only if there is no partial delivery	Complete
<b>RET: Customer has initiated a return</b>	Complete
<b>MIN: Customer wants to exchange products</b>	Complete



STO: Order is canceled	Canceled
NLB: Products are out of stock	Complete
FUT: Fulfillment transferred to shipping fulfillment service	Processing
FUA: See <b>FUT</b> , but order line was not accepted by fulfillment service yet	Processing
FUS: Shipped by shipping fulfillment service	Complete
Send mail on shipping	Yes
Import Shipping Vendor	No

## Partial Delivery / Status Import

Enable partial delivery No Select whether or not to deliver a partial delivery.

## Stock Import

Import on store level	Yes	If set to <b>No</b> the <b>default store</b> values are used. Otherwise, the following properties, see below, are used instead
Import EAN from pixi	Yes	
Import active flag from pixi	Yes	
Delivery Date Attribute	None	

## MSI Stock Import

MSI Source code none Select source from Multi Source Inventory.

## Customize Export

The example module **PixiApiCustomize** can be used as a reference to extend the **TechDivision/Pixi Events**.

### EVENTS CATALOG EXPORT

<b>techdivision_pixi_export_catalog_check</b>	The event is called before the catalog is exported and is used to implement an abort of the catalog export. <a href="#">see ExportCatalogCheck</a>
<b>techdivision_pixi_export_catalog_products_article_features</b>	The event is called for every product item after standard <FEATURE> block vor pixi* to extend own attributes as <ARTICLE_FEATURES>. <a href="#">see ExportCatalogArticleFeature</a>
<b>techdivision_pixi_export_catalog_products_article</b>	The event is called after each product item to extend own XML block in <ARTICLE>. <a href="#">see ExportCatalogProductsArticle</a>
<b>techdivision_pixi_export_catalog_products</b>	The event is called after all products item to extend own XML block in <T_NEW_CATALOG>. <a href="#">see ExportCatalogProducts</a>

## EVENTS ORDER EXPORT

<b>techdivision_pixi_export_order_before</b>	see <a href="#">ExportOrderBefore</a>
<b>techdivision_pixi_export_order_item_before</b>	see <a href="#">ExportOrderItemBefore</a>
<b>techdivision_pixi_export_order_item_after</b>	see <a href="#">ExportOrderItemAfter</a>
<b>techdivision_pixi_export_order_after</b>	see <a href="#">ExportOrderAfter</a>
<b>techdivision_pixi_import_order_status_after</b>	The event is called after import order status is saved. see <a href="#">ImportOrderStatusAfter</a>

## EVENTS STOCK EXPORT

<b>techdivision_pixi_import_stock_item_before_save</b>	The event is called before stock item ist saved. see <a href="#">ImportStockItemBeforeSave</a>
<b>techdivision_pixi_import_stock_sourceitem_before_save</b>	The event is called before source item ist saved. Only available in Magento 2.3 with active Multi Source Inventory and <b>techdivison/pixi-msi</b> package see <a href="#">ImportStockItemBeforeSave</a>
<b>techdivision_pixi_import_stock_product_before_save</b>	The event is called before product item ist saved. see <a href="#">ImportStockProductBeforeSave</a>

## FAQ's, Common Errors-Troubleshooting

### Connection not possible, no session-id returned during Check connection

Please make sure the Shop URL entered in **pixi\*** Control Center matches the url of shop and is not redirected in any way. All communication between pixi and Magento is done by **pixi\*** calling different urls of your shop, so make sure those calls are not blocked by any technical limitation or configuration: [firewall](#), [ip-whitelisting](#), [.htaccess](#), [http basic-auth](#), ...

### VAT can be MwSt\_High or MwStLow

Please make sure to perform a payment mapping (see the previous section) for all current payment methods in your shop.

### PaymentCode from addresses does not exist

Please make sure to perform a payment mapping (see the previous section) for all current payment methods in your shop. The extension can only work with the available payment methods in your **Magento** installation. If you have some antiquated orders that contain removed payment methods, consider removing them from the export, see the developer documentation for examples of how this can be done.

### ShipVendorCode missing

Please make sure to perform a shipping carrier mapping (see previous section) for all active shipping methods in your shop. The extension can only work with the available payment methods in your **Magento** installation. If you have some antiquated orders that contain removed payment methods, consider removing them from the export, see the developer documentation for examples of how this can be done.

### Shop ID from order does not exist

Please make sure that the [Shop ID](#) configured in **Magento** also exists in **pixi\*** Control Center, can be verified at [Tables > Shops](#)

# Changelog pixi\* connector

## 2.2.1

2021-02-16

- Fix type property issue on code generation
- Fix compatibility issue for msi extension

## 2.2.0

2021-02-15

- Provide optional *INTERNAL\_ITEM\_NUMBER* for Catalog-Export
- Provide display of pixi\* Connector version in admin backend
- Fix tax configuration mapping (tax class none)
- Fix remark values on calculated discounts

## 2.1.1

2021-01-20

- Provide event handling for msi extension
- Provide more stable formatting for "german floats" in catalog export

## 2.1.0

2021-01-14

- Empty product price exported 0.000 in exportCatalog
- Log each SKU in the exportCatalog that is processed
- Use configurable images when no image is on simple product defined

## 2.0.8

2020-12-11

- Fix: Number of lines (streets) of an address configurable for orderExport

## 2.0.7

2020-12-10

- Fix: confirmCatalog command has to be answer on GET request
- Fix: importStock and importOrderStatus work correctly with Magento 2.4 GET Request

## 2.0.5

2020-12-09

- Fix: itemtags from multiselect attribute crashed export catalog

## 2.0.4

2020-12-04

- Fix: Shipping carrier mapping without shipping methods from third party modules

## 2.0.3

2020-10-07

- Fix: Crash when empty shipping method on OrderExport

## 2.0.2

2020-10-07

- Fix: Crash when customerId should returned on OrderExport

## 2.0.1

2020-09-18

- New Version for Magento 2.4
- Rename Interface Api/DatabaseFields to Api/DatabaseFieldsInterface
- Major Update IS NOT compatible with Magento version lower than 2.4.x

## 1.7.1

2021-02-16

- Fix type property issue on code generation
- Fix compatibility issue for msi extension

## 1.7.0

2021-02-15

- Provide optional *INTERNAL\_ITEM\_NUMBER* for Catalog-Export
- Provide display of pixi\* Connector version in admin backend
- Fix tax configuration mapping (tax class none)
- Fix remark values on calculated discounts

## 1.6.1

2021-01-20

- Provide event handling for msi extension
- Provide more stable formatting for "german floats" in catalog export

## 1.6.0

2021-01-14

- Empty product price exported 0.000 in exportCatalog
- Log each SKU in the exportCatalog that is processed
- Use configurable images when no image is on simple product defined

## 1.5.17

2020-12-09

- Fix: itemtags from multiselect attribute crashed export catalog

## 1.5.16

2020-12-04

- Fix: Shipping carrier mapping without shipping methods from third party modules

## 1.5.15

2020-10-12

- Fix: Crash when empty shipping method on OrderExport

## 1.5.14

2020-10-07

- Fix: Crash when customerId should returned on OrderExport

## 1.5.13

2020-09-18

- Fix compatibility with Magento 2.2.x

## 1.5.12

2020-05-26

- Remove compatibility to Magento 2.1
- confirmCatalog result Default-XML if no product confirmed

## 1.5.11

2020-05-12

- Compatibility to Magento 2.3.5
- CatalogExport result Default-XML if no product exported

## 1.5.10

2020-04-27

- Added dispatching of event in order to change product collection before loading during product export.
- see [ExportCatalogProductCollection](#) from PixiExample

## 1.5.9

2020-04-17

- Refactoring shipment definition for plugins

## 1.5.8

2020-04-03

- Configure Export Catalog without product images

## 1.5.7

2020-02-06

- FIX: Place item tags in exportCatalog correctly
- FIX: Transfer region code instead of name in delivery and billing address and shorten to 3 digits

## 1.5.6

2020-01-20

- Set Payment Transaction (CARD\_AUTHORIZATION) for online payment from LastTransId()

## 1.5.5

2020-01-16

- New attributes for catalog export
  - ▣ pixi\* Item Tags

- ☒ Serialnumber Required
- ☒ Batch Number Required
- ☒ Best Before Date Required
- ☒ Customs Tariff Number
- ☒ Customs Country Of Origin
- ☒ Customs Tariff Text

## 1.5.4

2020-01-09

- FIX: Crash order export without shipping carrier

## 1.5.2

2019-10-30

- Implement integration tests for stock import

## 1.5.1

2019-10-29

- NEW: Complete support for MSI with "techdivision/pixi-msi" modul

## 1.5.0

2019-10-29

- NEW: Prepare and optimize for Magento 2.3 MSI support

## 1.4.5

2019-09-26

- NEW: Export multiple order state

## 1.4.4

2019-09-16

- NEW: Export additional product types like "virtual"

## 1.4.3

2019-09-16

- Fix: correct 0 value on item discount xml export



## 1.4.2

2019-07-17

- exportOrder uses store related configuration

## 1.4.1

2019-07-17

- Implement integration tests
- Fix error on partial delivery with shipping quantity

## 1.4.0

2019-07-16

- exportOrders
- Partial delivery with tag ONCE
- importOrderStatus
- FIX: shipping quantity error with Configurable Items
- Configure email send on new shipment
- Map shipping vendor from pixi\* data on Magento sales\_shipment\_track
- NEW Feature: Partial delivery
- Partial delivery with quantity from pixi\* data
- Partial delivery generate shipping for each unique tracking code

## 1.3.15

2019-07-15

- ImportOrderStatus
- Import comma-separated tracking codes into different trackings.
- Note Shipping Vendor with Tracking Codes

## 1.3.14

2019-07-10

- FIX: Stock import only save attribute

## 1.3.13

2019-07-08

- FIX: Crash order export on missing shipping method

## 1.3.12

2019-06-27

- Fix order export delay

## 1.3.11

2019-06-26

- Fix: deactivate delay

## 1.3.10

2019-06-25

- Produkt confirm with enabled flat table
- Pixi logger in order export

## 1.3.9

2019-06-24

- Billing address as default for shipping address

## 1.3.8

2019-06-19

- Fix: payment selector don't show all active payments

## 1.3.7

2019-06-18

- Country code is no longer determined for a store
- Weight is formatted without thousands separator

## 1.3.6

2019-05-28

- Implement new event for ImportOrderStatus API

## 1.3.5

2019-05-28

- Set indexes on pixi fields in sales\_order

## 1.3.4

2019-05-27

- FEATURE: Implement delivery date mapping for stock import

## 1.3.3

2019-05-16

- FIX order export
- Remove "DISCOUNT\_PERC" on order export.
- "REMARK type=DISCOUNT" only if discount amount greater than zero

## 1.3.2

2019-05-14

- Implement ACL for pixi\* configuration

## 1.3.1

2019-05-14

- Export orders only with specific status defined in configuration

## 1.3.0

2019-05-13

- New events on import stock for stock item and product before save. Example on Github Pixi Example

## 1.2.0

2019-04-25

- Configuration setting for product active status on stock import

# Changelog pixi\* MSI connector

## 2.2.0

2021-02-16

- Fix compatibility issues with pixi base module
- Provide pixi msi version display

## 2.1.0

2021-01-20

- Enhance SourceDeductionService for cleanup reservation on confirmOrder
- pixi\* is source of truth for inventory

## 2.0.0

2020-09-18

- New Version for Magento 2.4
- Major Update not compatible with Magento < 2.4

## 1.2.0

2021-02-16

- Fix compatibility issues with pixi base module
- Provide pixi msi version display

## 1.0.5

2020-04-17

- After-Plugin for msi shipment information

## 1.0.4

2019-11-28

- Implement automated tests

## 1.0.3

2019-10-30

- Implement integration tests for stock import

## 1.0.2

2019-10-29

- NEW: Complete MSI stock import

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