



# User Guide

## Magento 2 Plugin

### Address Autocompletion, Address Validation, Barcode Creation

**Functionalities:** Address autocompletion, address validation, barcode creation

#### Table of contents:

Introduction	2
Configuration	3
Address Autocompletion	7
Address Validation	8
<b>Barcode Creation</b>	<b>11</b>
Automatic Creation of Barcodes for New Deliveries	11
Creating Additional Barcodes	13
Print and Download Barcodes	14
<b>Overview of Existing Barcodes</b>	<b>15</b>

# 1. Introduction

A plugin for Magento 2 was developed based on the Swiss Post digital commerce API. This user guide serves as an overview of the plugin's functionalities. Furthermore, it is intended to serve as an aid in the operation of the plugin.

Functionality of the plugin:

## **Address Autocompletion**

When entering the delivery address in the checkout, auto-completion is offered for the "Street", "City" and "Postal code" fields. For the "Street" field, suggestions are displayed after three characters have been entered; for the "City" and "Postal code" fields, suggestions are displayed after only two characters.

## **Address Validation**

The delivery address in the checkout is validated and the user receives a corresponding message as a result. Also, the result of the validation is saved and can be viewed in the administration area on the respective order.

## **Barcode Creation**

Creating barcodes for packages is possible directly from the Magento administration area. For new shipments, barcodes are created automatically and can then be requested or printed. Additional barcodes can be created manually.

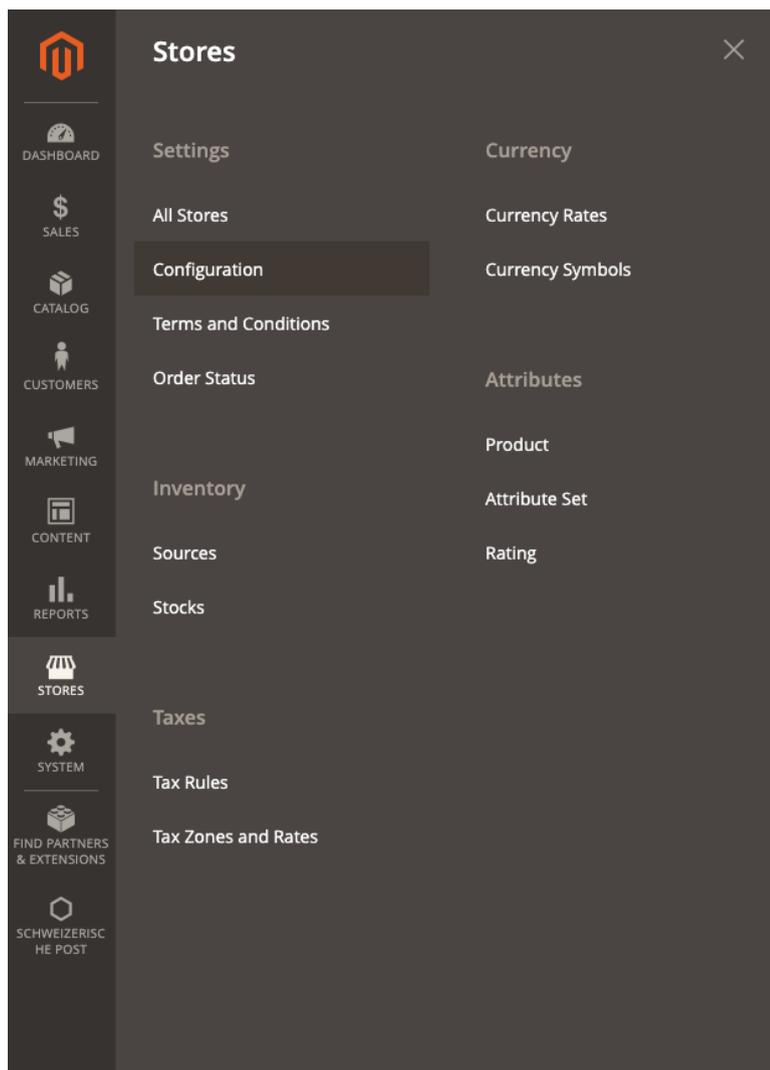
At the time of the plugin's creation, Magento versions 2.3 and 2.4 were supported.

## 2. Configuration

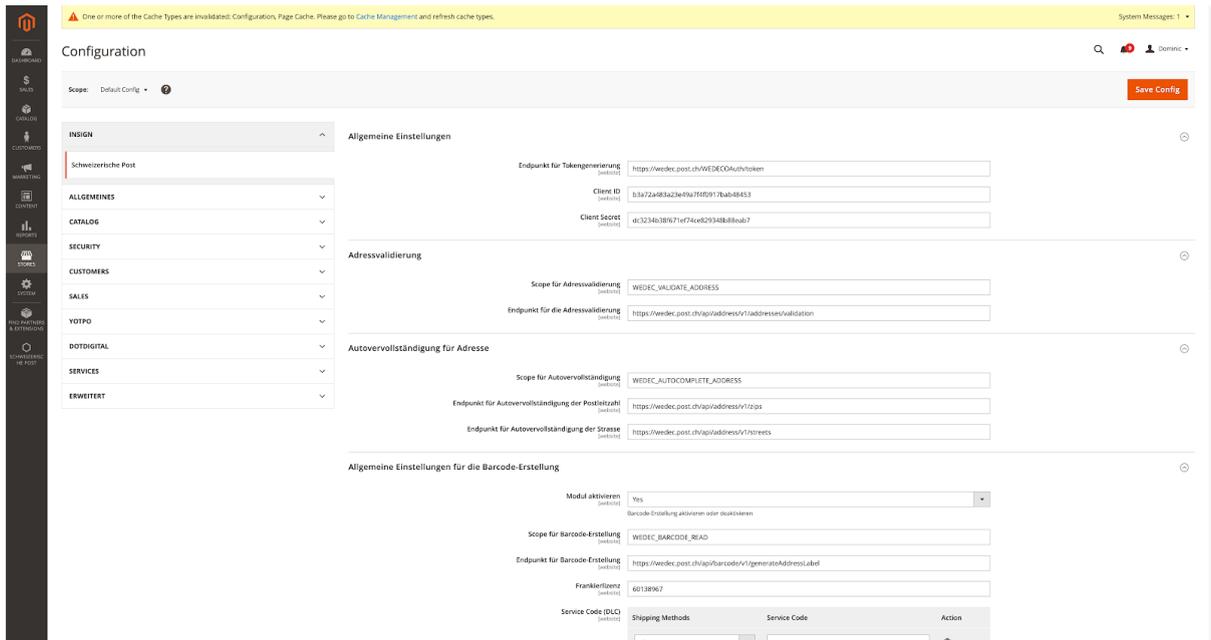
The configuration options for the three modules (address auto-completion, address validation and barcode creation) are located in a central place. Each of these three modules can be switched on and off separately and can thus be used independently of the others. However, authentication must always be configured, as this is used across modules.

### Menu Entry in Magento 2

In Magento 2, the menu entry for the configuration is located under Stores → Configuration → insign → Swiss Post.



Magento 2: Menu entry for the configuration



Magento 2: Configuration options for the modules

The following settings are available in the Magento backend:

General Settings	
Endpoint for token generation	URL of the endpoint for token generation.  Default value: https://wededc.post.ch/WEDECOAuth/token
Client ID	Client ID for authentication
Client Secret	Client for authentication
Address Validation	
Activate module	Defines whether the address validation module should be active.
Scope for address validation	Scope to be used for the API  Default value: WEDEC_VALIDATE_ADDRESS
Address validation endpoint	URL of the endpoint for address validation.  Standard value: https://wededc.post.ch/api/address/v1/addresses/validation

<b>Address Autocompletion</b>	
Activate module	Defines whether the address autocompletion module should be active.
Scope for address autocompletion	Scope to be used for the API  Default value: WEDEC_AUTOCOMPLETE_ADDRESS
Endpoint for zip code autocompletion	URL of the endpoint for zip code and city autocompletion.  Default value: <a href="https://wedec.post.ch/api/address/v1/zips">https://wedec.post.ch/api/address/v1/zips</a>
End point for autocompletion of the street	URL of the street autocomplete endpoint.  Default value: <a href="https://wedec.post.ch/api/address/v1/streets">https://wedec.post.ch/api/address/v1/streets</a>
<b>General Settings for Barcode Creation</b>	
Activate module	Defines whether the barcode creation module should be active.
Scope for barcode creation	Scope to be used for the API  Default value: WEDEC_BARCODE_READ
Endpoint for barcode creation	URL of the endpoint for barcode creation.  Default value: <a href="https://wedec.post.ch/api/barcode/v1/generateAddressLabel">https://wedec.post.ch/api/barcode/v1/generateAddressLabel</a>
Franking license	Franking license to be used
Service Code (DLC)	Mapping between Magento shipping methods and postal service codes
Additional services	Additional services, which should apply to each new barcode
Package weight	Standard weight, which is used if no weight is stored on the individual articles

<b>Standard Sender for Barcode</b>	
Define sender	If a separate address is to be set as the sender, this option must be active. If the option is not active, the address stored for the store will be used.
Sender name	Name of the sender (optional)
Sender address	Name of the sender (optional)
Zip code of the sender	Name of the sender (optional)
Place of the sender	Name of the sender (optional)
<b>Default Settings for Barcode Labels</b>	
Label layout	Format to use for the label
Print addresses	Specification of the address to be printed
Image file type	File format in which the labels should be created (PNG or JPG recommended for printing from Magento)
Image resolution	Resolution to be used for the barcode label.
<b>Logo Default Settings</b>	
Logo	Logo to be printed on the barcode labels
Logo rotation	Rotation of the logo
Logo aspect ratio	Set the aspect ratio of the logo
Logo horizontal alignment	Horizontal alignment of the logo
Logo vertical alignment	Vertical alignment of the logo

Magento 2: Configuration options

### 3. Address Autocompletion

As soon as autocomplete is activated in the configuration, it is available in Magento's checkout process. The suggestions can be clicked by the user in each case and are thus transferred to the respective field.

#### Street

For the "Street" field, suggestions are displayed as soon as at least three characters have been entered.

Street Address \*

Schaffhauser
<b>Schaffhauser</b> Strasse
Alte <b>Schaffhauser</b> Strasse
<b>Schaffhauser</b> rheinweg
<b>Schaffhauser</b> strasse
Alte <b>Schaffhauser</b> strasse

#### City

Suggestions for the city are displayed as soon as at least two characters have been entered. The fields "City" and "Postal code" are filled in.

City \*

Glatt
8152 <b>Glatt</b> brugg
8152 <b>Glatt</b> park (Opfikon)
8192 <b>Glatt</b> felden

#### Zip / Postal Code

Suggestions for the "Postal code" field are displayed as soon as at least two numbers have been entered. The fields "Locality" and "Postal code" are filled in.

Zip/Postal Code \*

815
<b>8152</b> Glattbrugg
<b>8152</b> Glattpark (Opfikon)
<b>8152</b> Opfikon
<b>8153</b> Rümlang
<b>8154</b> Oberglatt ZH

## 4. Address Validation

If a user has completely filled in the address in the checkout, it is being validated. The result of the validation is displayed to the user in the form of a message. The checkout can then be completed independently of the message.

Below are the four different messages that can be displayed to users:

### **Certified Address**

(API status: DOMICILE\_CERTIFIED or CERTIFIED)

 Die Lieferadresse konnte erfolgreich validiert werden.

### **Valid Address**

(API status: USABLE or FIXED)

 Die Lieferadresse ist gültig aber konnte nicht verifiziert werden. Bitte überprüfen Sie die Richtigkeit der Lieferadresse und fahren Sie anschliessend fort.

### **Invalid Address**

(API status: UNUSABLE or COMPROMISED)

 Die Validierung der Lieferadresse hat ergeben, dass diese ungültig ist. Bitte überprüfen Sie die Richtigkeit der Lieferadresse, bevor Sie fortfahren.

### **Technical Error**

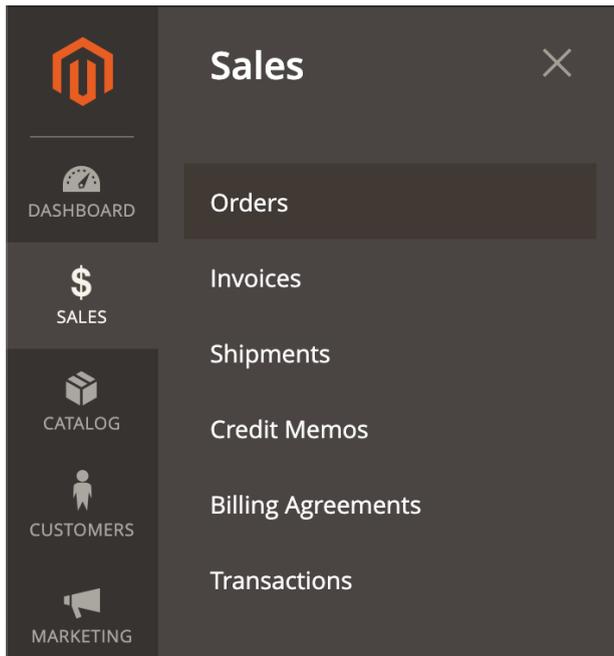
Displayed when an unexpected error has occurred.

 Bei der Validierung der Lieferadresse ist ein technischer Fehler aufgetreten.

## Result of Address Validation in the Administration Area of Magento

The result of an address validation is saved at the time of an order and can be viewed in the Magento backend on the respective order.

The orders in Magento 2 can be found under *Sales* → *Orders*.



Magento 2: Menu entry for orders

Afterwards, an order can be called up by clicking on View.

Orders 🔍 🔔 9 👤 Dominic ▾

[Create New Order](#)

Search by keyword   ⌵ Filters 👁 Default View ▾ ⚙ Columns ▾ 📄 Export ▾

Actions ▾ 16 records found 20 ▾ per page ⏪ 1 of 1 ⏩

<input type="checkbox"/>	ID	Purchase Point	Purchase Date ↑	Bill-to Name	Ship-to Name	Grand Total (Base)	Grand Total (Purchased)	Status	Action	Allocated sources	Signifyd Guarantee Decision
<input type="checkbox"/>	000000016	Main Website Main Website Store Default Store View	05.02.2021 11:15:36	Peter Muster	Peter Muster	CHF 54.00	CHF 54.00	Processing	<a href="#">View</a>	Default Source	

Magento 2: List of orders

The result of the address validation is displayed at the top of the order. It is possible to edit the order independently of the validation. Thus, it is up to the store operator whether he wants to send orders to addresses that appear invalid.

← Back   Cancel   Send Email   Hold   Invoice   Reorder   **Edit**

⚠️ Die Validierung der Lieferadresse hat ergeben, dass diese ungültig ist.

- ORDER VIEW**
- Information
- Invoices
- Credit Memos
- Shipments
- Comments History

### Order & Account Information

#### Order # 000000016 (The order confirmation email was sent)

Order Date	05.02.2021, 11:15:36
Order Status	Processing
Purchased From	Main Website Main Website Store Default Store View
Placed from IP	85.195.229.122

#### Account Information

Customer Name	Peter Muster
Email	<a href="mailto:peter.muster@gmail.com">peter.muster@gmail.com</a>
Customer Group	NOT LOGGED IN

Magento 2: Overview of an order

## 5. Barcode Creation

Barcodes are created in the Magento administration area. A barcode is assigned to one shipment at a time, whereby multiple barcodes per shipment are possible.

### 5.1. Automatic Creation of Barcodes for New Deliveries

If a new shipment is created for an order, this also automatically generates a new barcode at the same time.

To create a shipment for a new order, *Ship* must be clicked first.

#000000017

🔍 🔔 9 👤 Dominic ▾

← Back   Cancel   Send Email   Hold   Invoice   Ship   Reorder   **Edit**

✓ The delivery address was successfully validated

**ORDER VIEW**

- Information
- Invoices
- Credit Memos
- Shipments
- Comments History

#### Order & Account Information

**Order # 000000017 (The order confirmation email was sent)**

Order Date	08.02.2021, 13:55:00
Order Status	Pending
Purchased From	Main Website Main Website Store Default Store View
Placed from IP	80.254.166.203

#### Account Information

Customer Name	Peter Muster
Email	<a href="mailto:peter.muster@gmx.ch">peter.muster@gmx.ch</a>
Customer Group	NOT LOGGED IN

Magento 2: new order

As soon as a new shipment is displayed, it must be confirmed and saved using *Submit Shipment*.

## New Shipment

Search   Dominic

[← Back](#) [Reset](#)

### Order & Account Information

**Order # 000000017** (The order confirmation email was sent)

Order Date	08.02.2021, 13:55:00
Order Status	Pending
Purchased From	Main Website Main Website Store Default Store View
Placed from IP	80.254.166.203

### Account Information

Customer Name	Peter Muster
Email	<a href="mailto:peter.muster@gmx.ch">peter.muster@gmx.ch</a>
Customer Group	NOT LOGGED IN

## Magento 2: new shipment

[Submit Shipment](#)

Magento 2: Submit button to save a shipment

If the shipment has been created, it is then visible under *Shipments*. With a click on *View* a single shipment can be opened.

#000000017

Search   Dominic

[← Back](#) [Cancel](#) [Send Email](#) [Hold](#) [Invoice](#) [Reorder](#) [Edit](#)

✓ The shipment has been created.

✓ The delivery address was successfully validated

<b>ORDER VIEW</b>	Search by keyword <input type="text"/>	<a href="#">Filters</a>	Default View	Columns	Export			
Information	Actions <input type="text"/>	1 records found	20 per page	< 1 of 1 >				
Invoices	<input type="checkbox"/>	Shipment ↓	Ship Date	Order #	Order Date	Ship-to Name	Total Quantity	Action
Credit Memos								
<b>Shipments</b>								
Comments History								

## Magento 2: Deliveries overview

Under the heading "Swiss Post Barcode" the barcodes available for a shipment are displayed. Depending on the file format, various actions are possible. If the image files are in PNG or JPG format, direct printing from Magento is possible. For other file formats, a prior download of the files is required. In Magento 2, clicking *Print* first displays a pop-up window with the preview of the barcode.

#### Swiss Post Barcode

Barcode ID	Shipment ID	Created Date	Action
30	87	2021-02-08 13:01:41	<a href="#">Print</a> <a href="#">Download</a>

Magento 2: Barcode labels overview

## 5.2. Creating Additional Barcodes

If an additional barcode is to be created for a shipment, this can be done using the *Create new barcode* function.

Barcode



 Dominic

← Back
Save

Service Code

Zusätzliche Services

Paketgewicht

Absender definieren \*  ▼

Magento 2: Options for an additional barcode

For additional barcodes, the service code, the additional services and the package weight can be overridden. Further, if necessary, another sender can be specified manually.

## 5.3. Print and Download Barcodes

To print a barcode, you can click on the *Print* action.

### Swiss Post Barcode

Barcode ID	Shipment ID	Created Date	Action
30	87	2021-02-08 13:01:41	<a href="#">Print</a> <a href="#">Download</a>

### Magento 2: Barcode labels overview

As soon as *Print* is clicked, a preview of the barcode appears in a separate pop-up window. The *Print* button can be used to start printing or open the print preview (depending on the operating system and its settings).



### Magento 2: Preview of a barcode

## 6. Overview of Existing Barcodes

For existing barcodes, there is an overall overview so that each individual barcode does not have to be called up via the associated shipment. This overview is located in Magento 2 under *Swiss Post* → *Barcode*.



Magento 2: Menu for general overview of barcodes

If the total barcode overview was called up, all existing barcodes are displayed.

Swiss Post Barcode

Search by keyword

Filters

Actions   per page  of 2

<input type="checkbox"/>	Barcode ID	Created At	Order ID	Shipment ID
<input type="checkbox"/>	9	27.01.2021 10:06:54	5	82
<input type="checkbox"/>	10	27.01.2021 14:03:38	13	83
<input type="checkbox"/>	11	27.01.2021 14:23:05	13	83
<input type="checkbox"/>	12	27.01.2021 14:23:22	13	83

Magento 2: Barcode overview

In Magento 2, it is also possible to select multiple barcodes and then delete them using *Delete* or print them using *Print*.

## Swiss Post Barcode

Search by keyword

Actions  23 records found (3 selected)

	Created At
<input checked="" type="checkbox"/> 9	27.01.2021 10:06:54

Magento 2: Actions for barcodes