User Guide

Magento 2 Plugin

Address Autocompletion, Address Validation, Barcode Creation

Functionalities: Address autocompletion, address validation, barcode creation

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version 1.1

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.
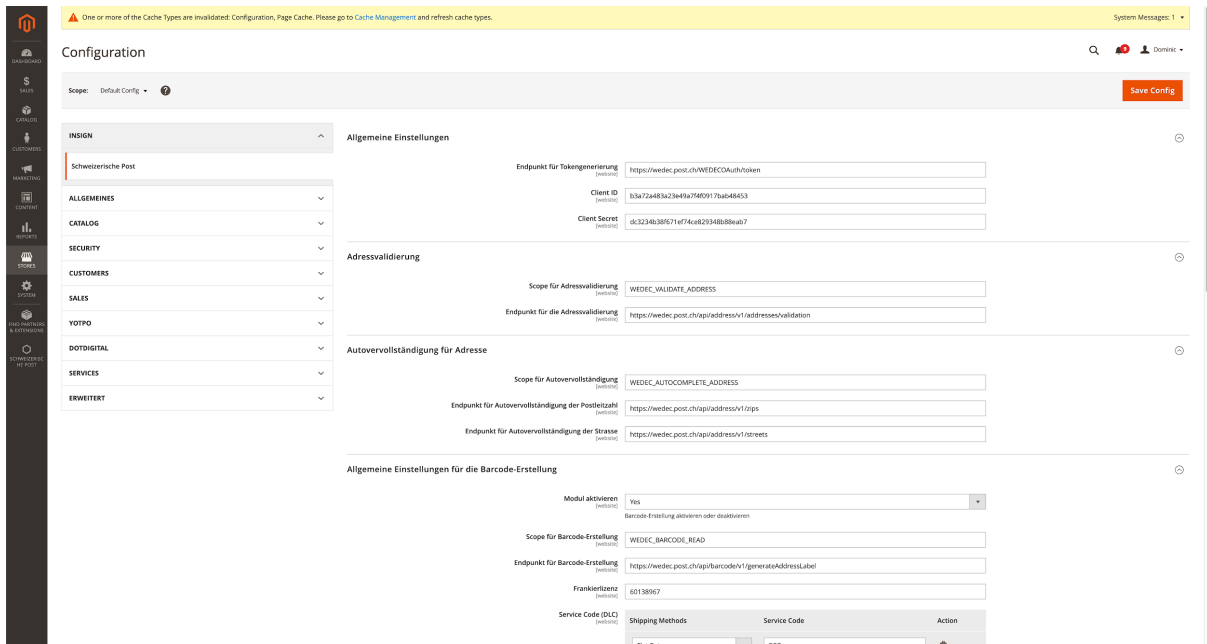
2. Configuration

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.
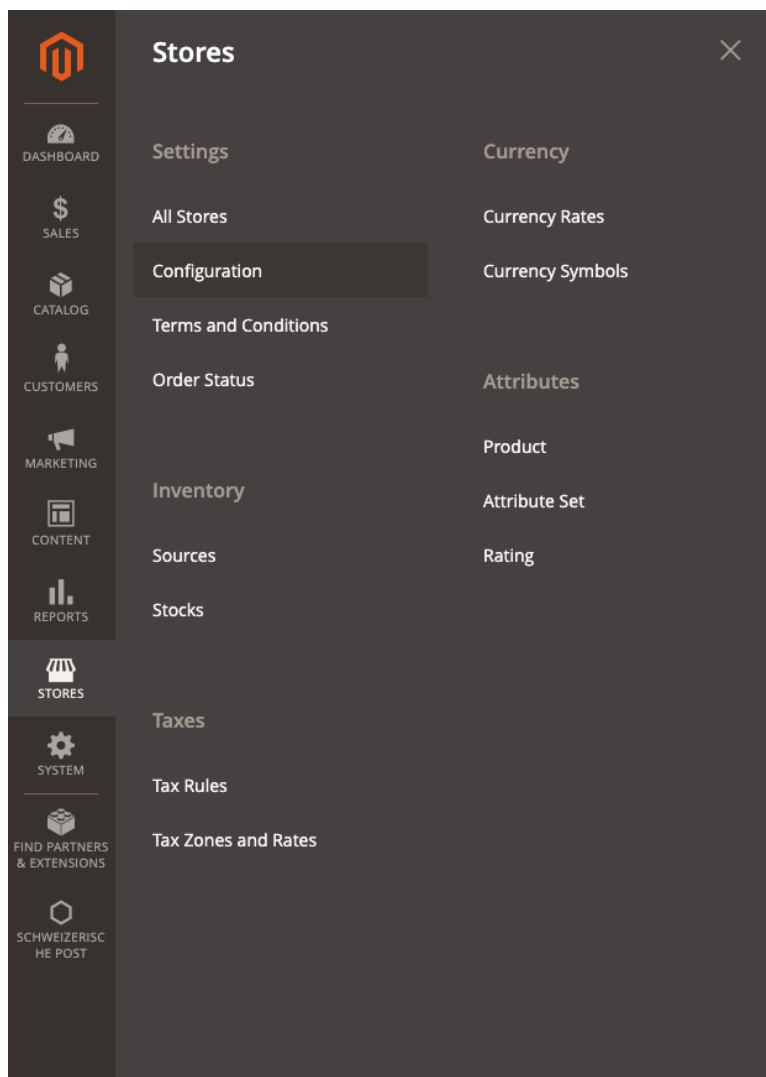
Magento 2: Menu entry for the configuration

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://wedec.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://wedec.post.ch/api/address/v1/addresses/validation

Address Autocompletion	
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: https://wedec.post.ch/api/address/v1/zips
End point for autocompletion of the street	URL of the street autocomplete endpoint. Default value: https://wedec.post.ch/api/address/v1/streets
General Settings for Barcode Creation	
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: https://wedec.post.ch/api/barcode/v1/generateAddressLabel
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
Delivery Service	Delivery service such as depositing items.
Delivery Location	Delivery location / drop point (for delivery service above).
Use second field of the Street Address for matching the house number	If the second address field is customized or used for the house number.
Package weight	Standard weight, which is used if no weight is stored on the individual articles

Standard Sender for Barcode	
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)
Default Settings for Barcode Labels	
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.
Logo Default Settings	
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 |
| **Schaffhauser** Strasse |
| Alte **Schaffhauser** Strasse |
| **Schaffhauser**rheinweg |
| **Schaffhauser**strasse |
| Alte **Schaffhauser**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 **Glatt**brugg |
| 8152 **Glatt**park (Opfikon) |
| 8192 **Glatt**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 |
| **815**2 Glattbrugg |
| **815**2 Glattpark (Opfikon) |
| **815**2 Opfikon |
| **815**3 Rümlang |
| **815**4 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.*
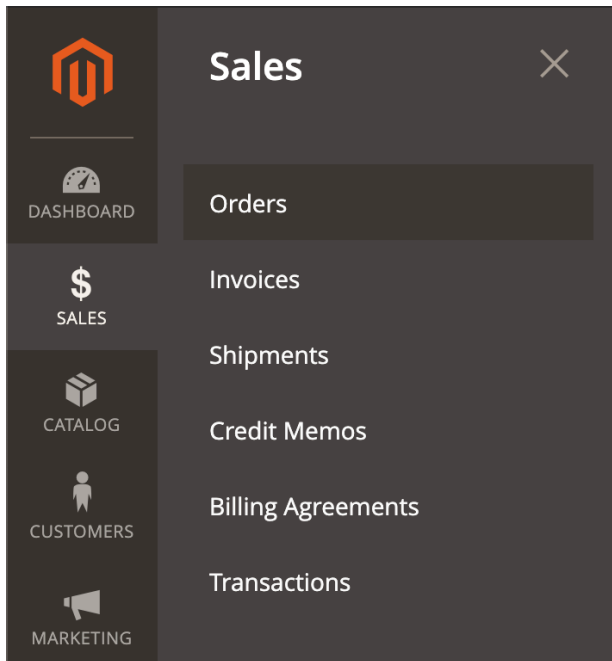
Magento 2: Menu entry for orders

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

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.

#000000016

Search | 🔔 9 | 👤 Dominic ▾

← 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	peter.muster@gmail.com
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.

Magento 2: new order

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

Magento 2: new 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.

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	Print Download

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

← Back   Save

Service Code	ECO
Zusätzliche Services	FRA
Paketgewicht	1
Absender definieren *	No ▼

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	Print Download

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.

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*.

Magento 2: Actions for barcodes