

Webshop

FESTO

**Industrial Internet
of Things**



Instruction manual



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For the sake of readability throughout these instructions, all gender-specific terms are to be considered to refer to both the feminine and the masculine form, except when referring to a particular person.

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1 System description

The webshop takes the mapping of processes necessary for web-based ordering of goods and management of these and adds it to Festo Didactic training factories.

In particular, these are:

- the establishment and operation of a webshop as a central element in e-commerce
- the creation and administration of products available for order
- the configuration of product variants and the linking of these with MES workplans
- The management and analysis of order, customer and status data

<i>NOTICE</i>	
	<p>The webshop used is the basis for many current internet sales portals. In its delivery status however, weak and identical passwords are used and there are no further security measures such as encrypted communication with the web server (HTTPS) or decoupling of the database server to enhance user friendliness and enable simple access to data.</p> <p>For this reason operating the webshop on the Internet rather than the local network is inadvisable without additional security measures.</p>

1.1 Requirements

On the server (e.g. MES-PC):

- MES4 version 1.2.1.0 or above
- Web server, e.g. Apache, incl. PHP version 7 or above with activated extension pdo_odbc (php.ini)
- MySQL/MariaDB server
- E-mail server, e.g. hMailServer

On the terminal (e.g. tablet or laptop):

- Current web browser (recommended: Google Chrome)

1.2 Program components

The following program components are installed and activated during installation of the webshop on the server:

- Webshop application "OpenCart", contains modification "MES4 Plugin" by Festo Didactic
- "opencart" database contains pre-configured webshop suitable for OpenCart application with MES4 plug-in
- Node-RED instance "18803_webshop"
- hMailServer configuration

1.3 Server IP address

The IP address below is set by default on delivery. Other IP addresses may alternatively be assigned for specific customers.

System	Standard server IP address	Customer-specific server-IP address
MPS	192.168.1.5	
MPS 400	172.21.0.90	
CP system	172.21.0.90	

The server's IP address can be checked via Start – prompt – ipconfig and pressing Enter to confirm.

1.4 Program start

The web applications can be called up within the local training factory network via the web browser. The URL (Uniform Resource Locator) depends on the server's IP address.

Open webshop application: <http://{Server-IP-Adresse}/opencart>

Open webshop administration: <http://{Server-IP-Adresse}/opencart/admin>

1.5 User name and passwords

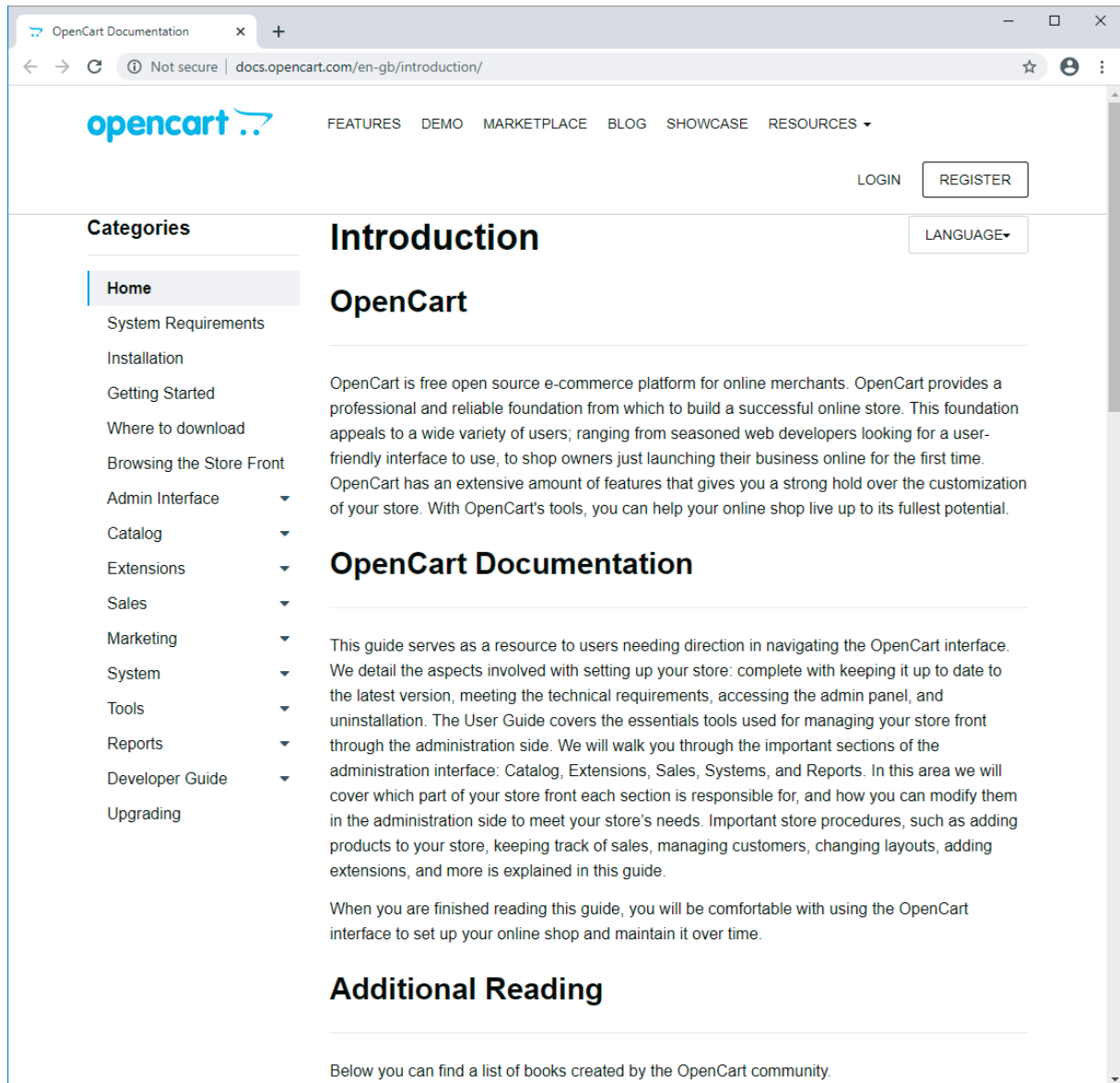
The following users and passwords are set by default on delivery:

Application	User	Password	Comment
Webshop admin	Admin	Festo4.0	Webshop operator
Webshop	customer@festo.systems	Festo4.0	Example customer
E-mail	customer@festo.systems	Festo4.0	E-mail distribution/retrieval
E-mail	webshop festo.systems	Festo4.0	E-mail distribution/retrieval
MySQL/MariaDB	root	Festo4.0	All authorizations
MySQL/MariaDB	FestoWriteUser	Festo4.0	Read/write permissions
hMailServer administrator app	Administrator	Festo4.0 (previously: festo)	

1.6 Further documentation

The OpenCart webshop basis has a large online community as well as freely available documentation.

On the OpenCart home page, under Documentation ¹ you will find introductory documentation on the OpenSource webshop and references to further literature.



The screenshot shows a web browser window displaying the OpenCart Documentation website. The browser's address bar shows the URL docs.opencart.com/en-gb/introduction/. The website header includes the OpenCart logo, navigation links (FEATURES, DEMO, MARKETPLACE, BLOG, SHOWCASE, RESOURCES), and buttons for LOGIN and REGISTER. A LANGUAGE dropdown menu is also visible.

The main content area is titled "Introduction" and "OpenCart". It contains the following text:

OpenCart is free open source e-commerce platform for online merchants. OpenCart provides a professional and reliable foundation from which to build a successful online store. This foundation appeals to a wide variety of users; ranging from seasoned web developers looking for a user-friendly interface to use, to shop owners just launching their business online for the first time. OpenCart has an extensive amount of features that gives you a strong hold over the customization of your store. With OpenCart's tools, you can help your online shop live up to its fullest potential.

OpenCart Documentation

This guide serves as a resource to users needing direction in navigating the OpenCart interface. We detail the aspects involved with setting up your store: complete with keeping it up to date to the latest version, meeting the technical requirements, accessing the admin panel, and uninstallation. The User Guide covers the essentials tools used for managing your store front through the administration side. We will walk you through the important sections of the administration interface: Catalog, Extensions, Sales, Systems, and Reports. In this area we will cover which part of your store front each section is responsible for, and how you can modify them in the administration side to meet your store's needs. Important store procedures, such as adding products to your store, keeping track of sales, managing customers, changing layouts, adding extensions, and more is explained in this guide.

When you are finished reading this guide, you will be comfortable with using the OpenCart interface to set up your online shop and maintain it over time.

Additional Reading

Below you can find a list of books created by the OpenCart community.

Figure: OpenCart Introduction

¹ <http://docs.opencart.com/en-gb/introduction/>

2 Creating products

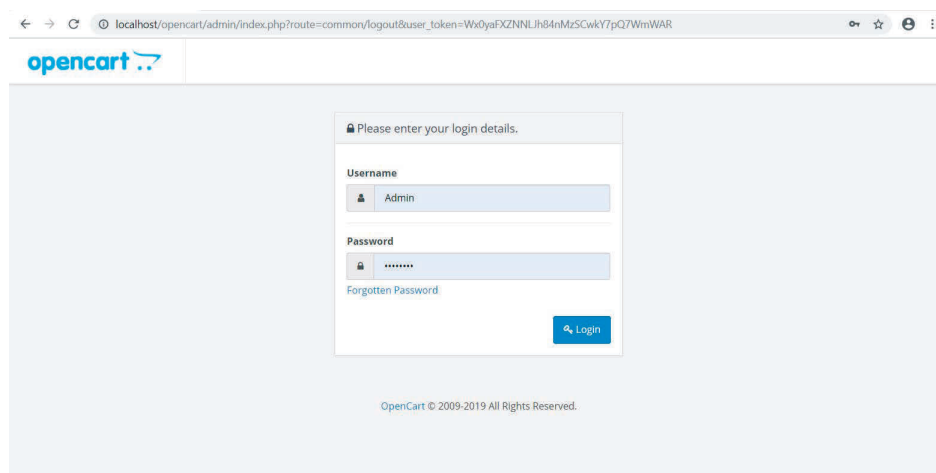
In the webshop, products can be created that are commissioned by a customer automatically via the MES4 interface. The webshop products constitute a subset of the parts created in MES4. In particular, products that are not configured in MES4 can't be successfully ordered.

In the following, a distinction is made between products with and without options that can be selected when ordering.

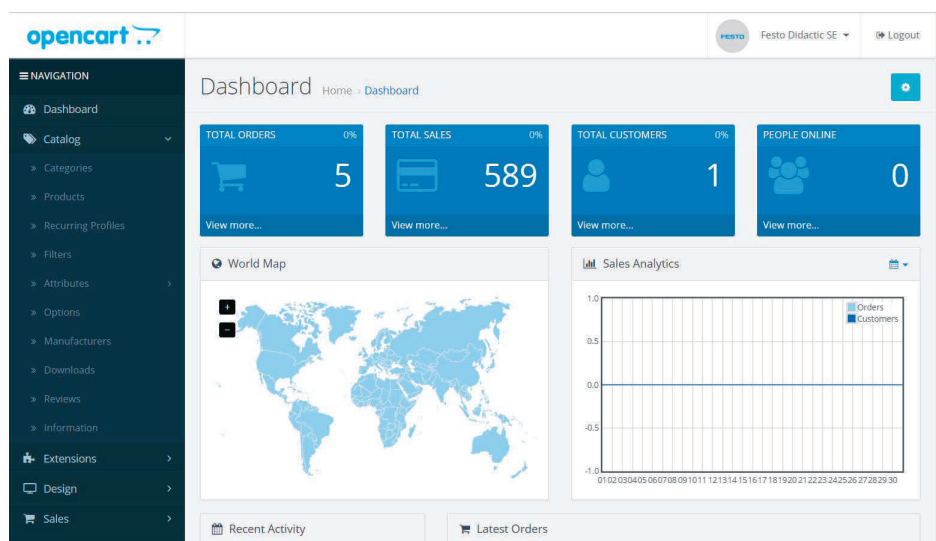
2.1 Creating a new product without options

Procedure

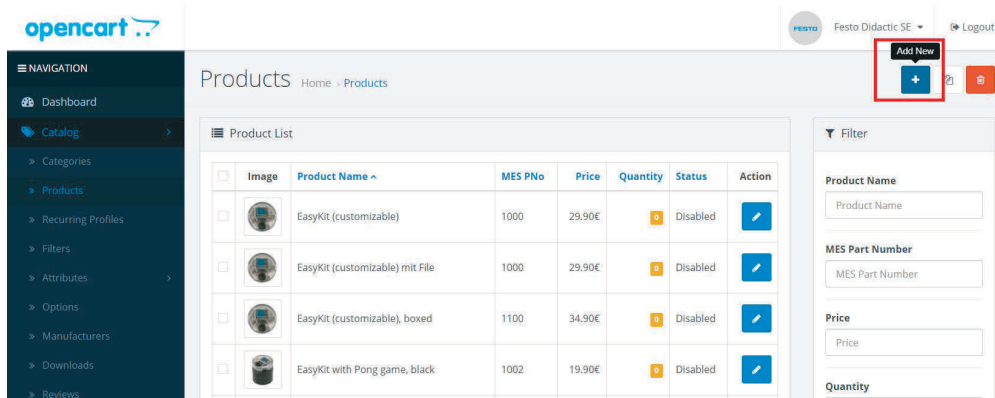
1. Start OpenCart Admin interface, log in if necessary



2. Catalog – Products



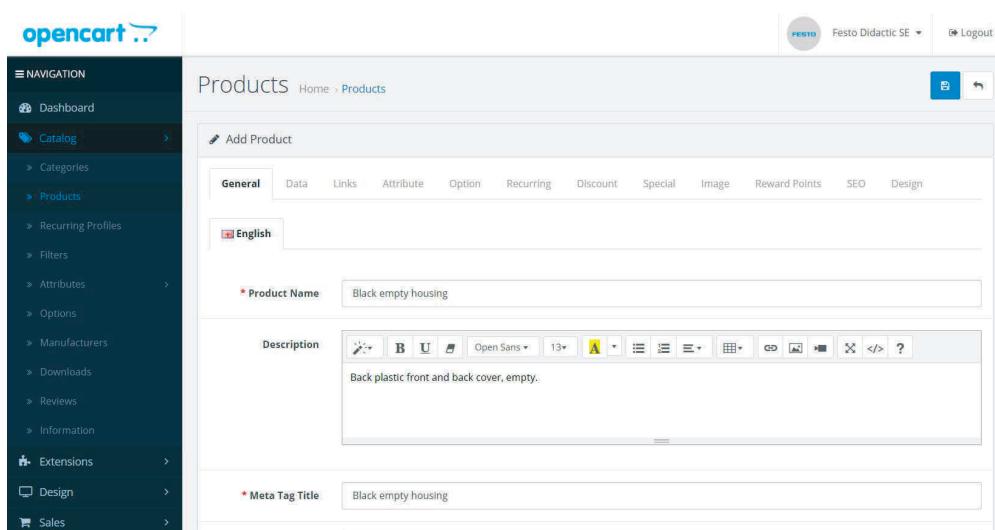
3. The products configured are displayed. Meanings in the "Status" column
 Enabled: The product is visible in the webshop for customers and can be ordered
 Disabled: The product is not visible in the webshop
4. A new product can be created via "Add new".



5. Enter the product data, in particular in the following categories:

General:

- Product Name: Displayed name of the product
- Description: Description for precise definition of product
- Meta Tag Title: Title of website (e.g. the product name)



Data:

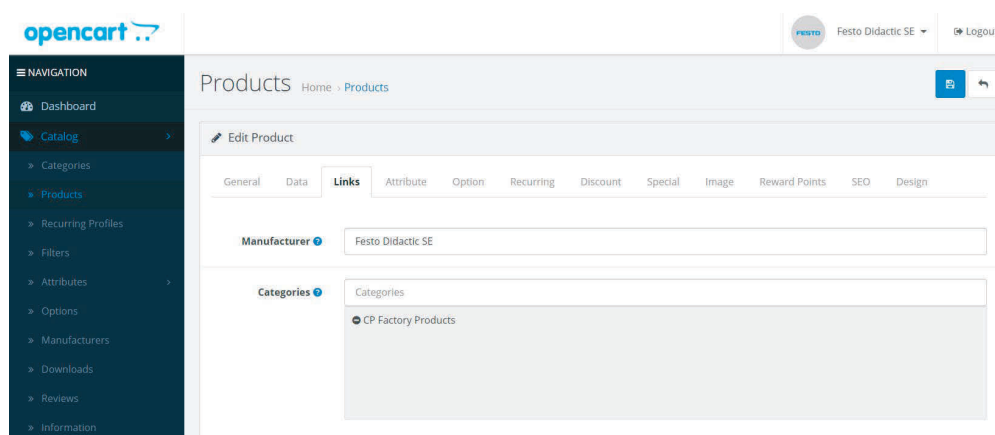
- MES Part Number: Corresponds to the PNo of the part added in MES4 (production part)
- Price: Product price shown (gross)
- Quantity: Warehouse stock (here = 0 since production starts on order release)
- Minimum Quantity: Minimum quantity to be ordered; typically 1
- Subtract stock: Selects whether the warehouse stock is subtracted when ordered. Here "No" since produced on order.
- Status: Enabled in order to make the product visible in the webshop

The screenshot displays the 'Edit Product' page in the OpenCart admin interface. The left sidebar contains a navigation menu with categories like Dashboard, Catalog, Customers, and Marketing. The main content area shows the 'Data' tab of the product form, which includes fields for identification numbers (MES Part Number, SKU, UPC, EAN, JAN, ISBN, MPN), location, price, tax class, quantity, and shipping requirements. The 'Status' is set to 'Enabled' and the 'Sort Order' is 1. The footer of the page reads 'OpenCart © 2009-2019 All Rights Reserved. Version 3.0.3.2'.

Field	Value
MES Part Number	1200
SKU	SKU
UPC	UPC
EAN	EAN
JAN	JAN
ISBN	ISBN
MPN	MPN
Location	Location
Price	59.0000
Tax Class	---None---
Quantity	0
Minimum Quantity	1
Subtract Stock	No
Out Of Stock Status	5-10 Minutes
Requires Shipping	Yes
Date Available	2019-05-31
Requires Shipping	Yes
Date Available	2019-05-31
Dimensions (L x W x H)	110.00000000 60.00000000 20.00000000
Length Class	Millimeter
Weight	50.00000000
Weight Class	Gram
Status	Enabled
Sort Order	1

Links:

- **Manufacturer:** Manufacturer of the product.
In the webshop, products can be displayed filtered by the manufacturer specified here. Standard: Festo Didactic SE
- **Categories:** Product category under which the product appears in the webshop.
On the home page of the webshop, a category can be selected as a filter. Standard categories are
CP Factory Products
MPS Products

**Image:**

- **Image:** Image displayed for the product.
By clicking the blue edit icon, the main screen can be modified.
All images in the directory
`xampp\htdocs\OpenCart\image\catalog`
are available and images can be uploaded from other sources.
- **Additional Image:** Additional images that are displayed in the detailed view for the product.

2.2 Creating a new product with options














To create a new product with options i.e. parameters selectable by the customer, the options first have to be configured.

In the example in the table below, two options (color and logo) have been defined with three (black, blue, red) and then two (I4.0, Festo) values.

Subsequently two products were added: "Colored Part" with color options and option values black and red, and "Colored Part with Logo" with color option, option values red and black and logo options and the option values Festo and I4.0.

In the products, a subset from the options defined can therefore be used.

In the product options in turn, a subset can be created from defined option values and also newly sorted for this product.

Example	
Options	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid gray; padding: 5px;"> <p>Option Front Cover Color</p> <ul style="list-style-type: none">  Black  Blue  Red </div> <div style="border: 1px solid gray; padding: 5px;"> <p>Option Logo</p> <ul style="list-style-type: none">  I4.0  Festo </div> </div>
Products with options	<div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid gray; padding: 5px; width: 45%;"> <p>Product Colored Part</p> <p></p> <div style="border: 1px solid gray; padding: 5px;"> <p>Option Front Cover Color</p> <ul style="list-style-type: none">  Black  Red </div> </div> <div style="border: 1px solid gray; padding: 5px; width: 45%;"> <p>Product Colored Part with Logo</p> <p></p> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid gray; padding: 5px;"> <p>Option Front Cover Color</p> <ul style="list-style-type: none">  Red  Black </div> <div style="border: 1px solid gray; padding: 5px;"> <p>Option Logo</p> <ul style="list-style-type: none">  Festo  I4.0 </div> </div> </div> </div>



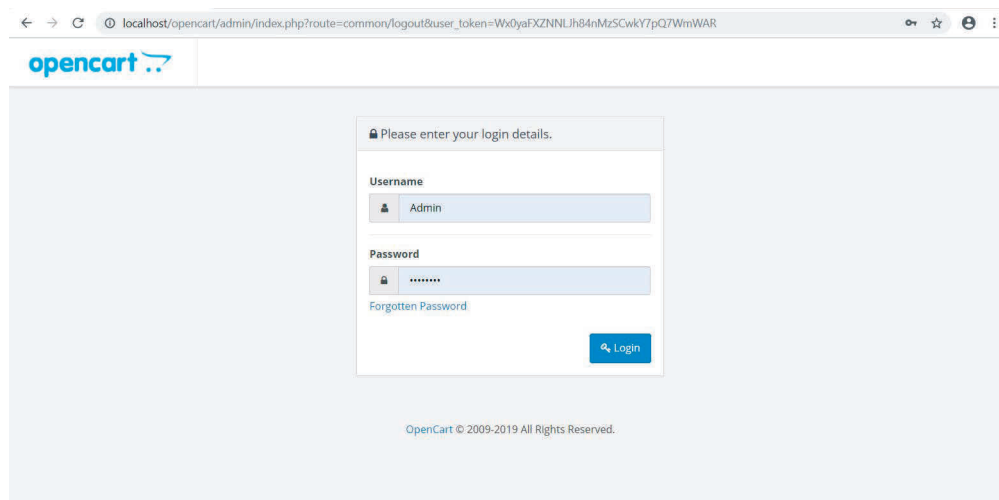
All options that are configured for the product in the webshop have to be defined in the MES4 workplan as **changeable** parameters.

All other parameters in the workplan have to be defined as **constant**.

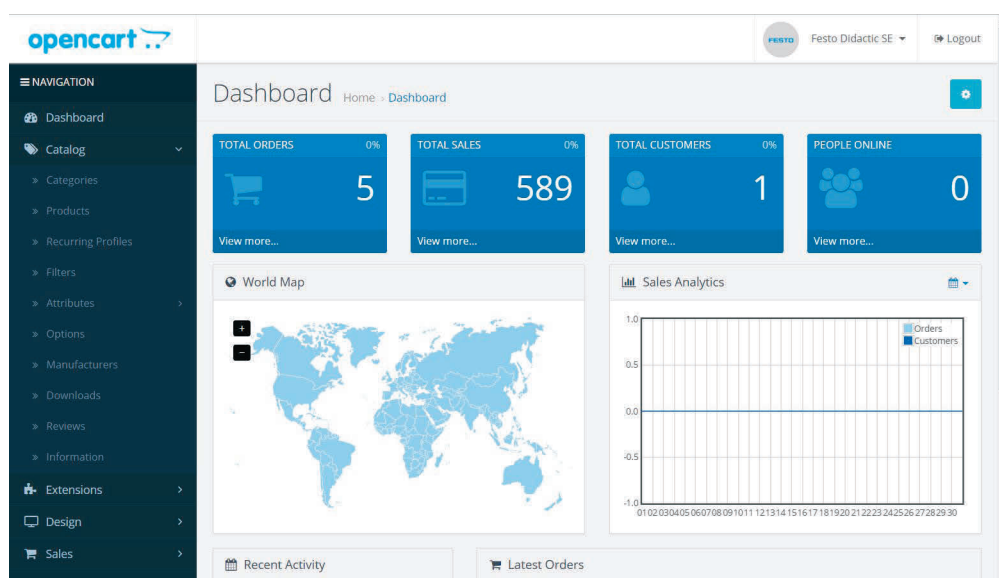
If they are not, order transfer from the webshop to MES4 will fail.

Procedure

1. Start OpenCart Admin interface, log in if necessary

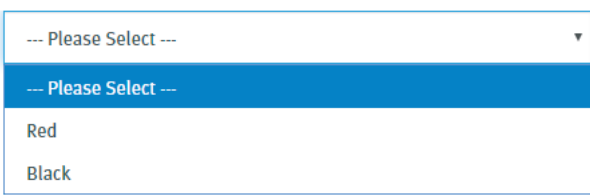







2. Catalog – Options

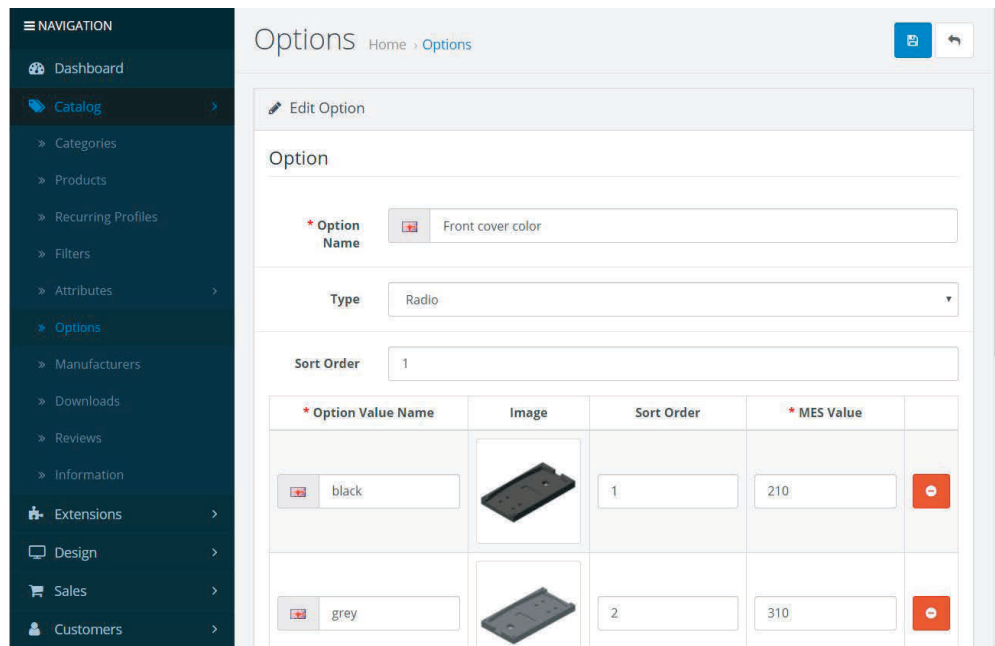


3. Defining options

- Option name: Unique name of the option
- Type: Type of option choice, see following table

Configured type	Example (webshop view)
Select	
Radio	
Checkbox	
Text	<input type="text" value="Color"/>
Text area	<input type="text" value="Color"/>
File	<input type="button" value="Upload File"/>
Date	<input type="text" value="2020-03-05"/> 
Time	<input type="text" value="07:30"/> 
Date & time	<input type="text" value="2020-03-05 07:30"/> 

- **Sort Order:** Value that defines the order in which the options are displayed for a product
- **Option Value Name:** Name of the option value
- **Image:** Image shown for the option (only with "Radio" type and "checkbox")
- **Sort Order:** Value that defines the order in which the option values are displayed
- **MES Value:** Parameter value transferred to the MES4 when the option is chosen



4. Select product to which options are to be added

To do this either

add a product as in chapter 2.1 or

duplicate an existing product. Proceed as follows when doing this:

i Catalog – Products – [Select product] – Copy

The screenshot shows the opencart admin interface. The left sidebar contains a navigation menu with options like Dashboard, Catalog, Extensions, Design, Sales, Customers, Marketing, System, Vqmod Manager, and Reports. The main content area is titled 'Products' and shows a 'Product List' table. The table has columns for Image, Product Name, MES PNo, Price, Quantity, Status, and Action. Three products are listed: 'Black part' (MES PNo 1200, Price 29.00€, Status Enabled), 'Colored part' (MES PNo 2001, Price 39.00€, Status Enabled), and 'Colored part with Logo' (MES PNo 2000, Price 39.00€, Status Enabled). A red box highlights the 'Copy' icon in the top right corner of the product list area.

ii The duplicated product appears in the product list with the status "Disabled"

Open duplicated product for editing.

The screenshot shows the opencart admin interface after a product has been duplicated. A green success message at the top reads 'Success: You have modified products!'. The 'Product List' table now contains four items. The duplicated 'Black part' row is highlighted with a red box and has its status set to 'Disabled'. The other three items remain unchanged. The 'Copy' icon in the top right corner of the product list area is still visible.

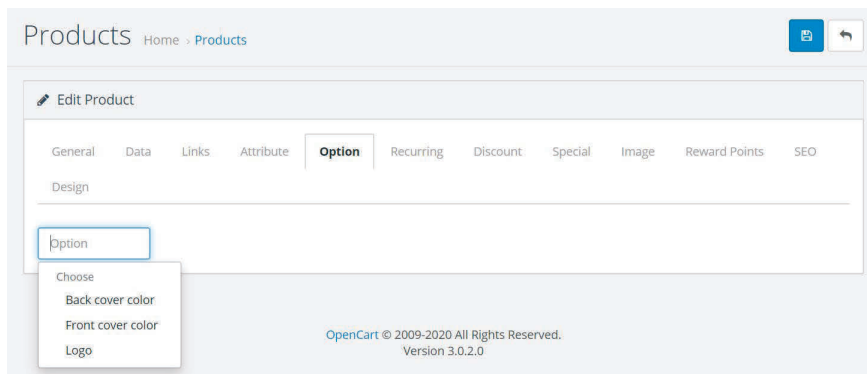
iii The following changes are required on the copied element:

General – Product Name: Assign a unique name

Data – MES Part Number: part number in MES4

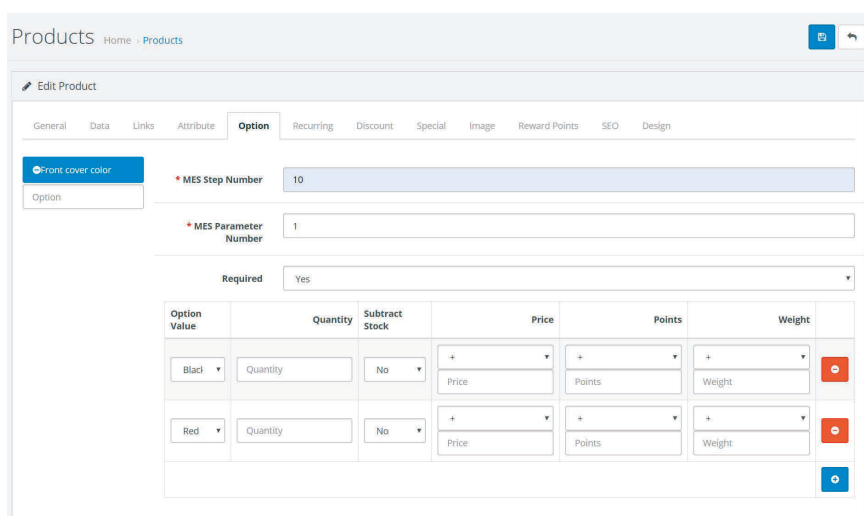
Data – Status: Enabled

5. Adding option values
 - Selecting the "Option" tab
 - Enter or select one of the defined options



- i
 - MES Step Number: StepNo in the workplan in which this option is used
 - MES Parameter Number: Number of the parameter in the workplan
 - Required: = Yes (MES4 interface always expects a parameter value)
- ii
 - The following data is to be defined for each option value, which is added using the "+" button:
 - Option value: Option(s) that can be selected for the product
 - Quantity: = 0 (no stock management for option values)
 - Subtract Stock: = No (no stock management for option values)
 - Price: Change (+/-) to the product price due to the option value
 - Points: Change to reward points due to the option value (see OpenCart documentation)
 - Weight: Change to the product weight due to the option value

Thereafter press "Save" to save the entries.

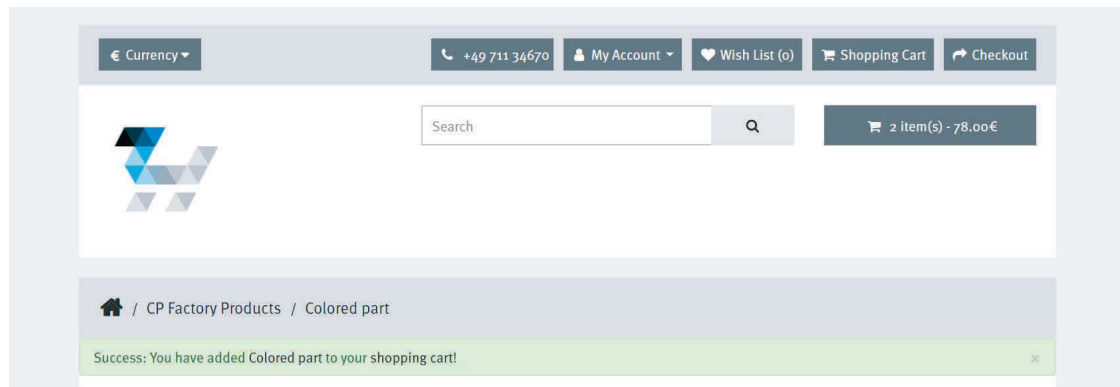


3 Ordering products

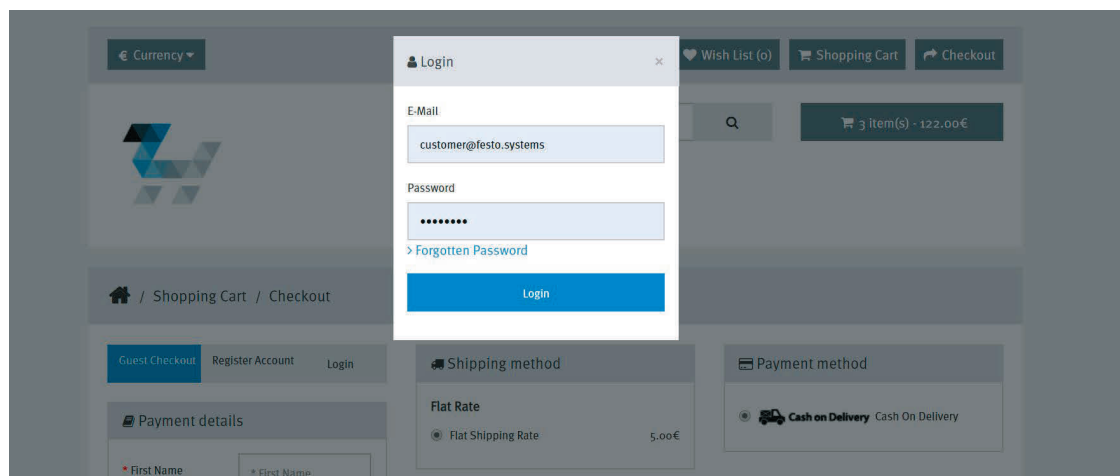
Procedure for ordering products

1. Open product page
2. Select all required options marked with a red asterisk.
3. Select quantity of products of the same type
4. Confirm with "Add to Cart". The articles are saved in the shopping cart.

The screenshot displays a product page for a 'Colored part'. At the top, there is a navigation bar with a currency selector (€), a phone number (+49 711 34670), and links for 'My Account', 'Wish List (0)', 'Shopping Cart', and 'Checkout'. Below this is a search bar and a shopping cart icon showing '0 item(s) - 0.00€'. The breadcrumb trail indicates the location: 'Home / CP Factory Products / Colored part'. The product image shows a grey rectangular component with the word 'customized' overlaid. To the right of the image, the product title 'Colored part' is displayed, along with its brand 'Brands Festo Didactic SE', product code '2001', and availability '5-10 Minutes'. The price is listed as '39.00€'. Under the 'Available Options' section, there are two required options marked with a red asterisk: 'Front cover color' and 'Back cover color'. Each option has three radio button choices: Red, Blue (+2.00€), and Black. The 'Red' option is selected for both. Below the options is a quantity selector set to '2' and a blue 'Add to Cart' button. At the bottom, there is a star rating of 1 review and a link to 'Write a review'.



5. Add any other products.
All products in an order are merged in one order when forwarded to MES4.
6. Preparing the order via "Checkout"
7. Register as a new customer or log in with the existing access data (see chapter 1.5) via 'Login'



8. Confirm the "Terms & Conditions"
9. Send the order via the "Confirm Order" button

€ Currency ▾
+49 711 34670
My Account ▾
Wish List (0)
Shopping Cart
Checkout

Q
3 item(s) - 122.00€

Home / Shopping Cart / Checkout

Guest Checkout
Register Account
Login

Payment details

I want to use an existing address

Test Customer Rechbergstr. 3 Denkendorf
Baden-Württemberg Germany, 73770

I want to use a new address

Shipping method

Flat Rate

Flat Shipping Rate 5,00€

Payment method

Cash on Delivery Cash On Delivery

Shopping cart (0.15kg)

Image:	Product Name:	Quantity:	Unit Price:	Total:
	Colored part - Front cover color: Red - Back cover color: Black	2	39.00€	78.00€
	Colored part - Front cover color: Black - Back cover color: Black	1	39.00€	39.00€

Use Coupon Code

Use Gift Certificate

Sub-Total	117.00€
Flat Shipping Rate	5.00€
Total	122.00€

Add Comments About Your Order

Add Comments About Your Order

I have read and agree to the [Terms & Conditions](#)

Confirm Order

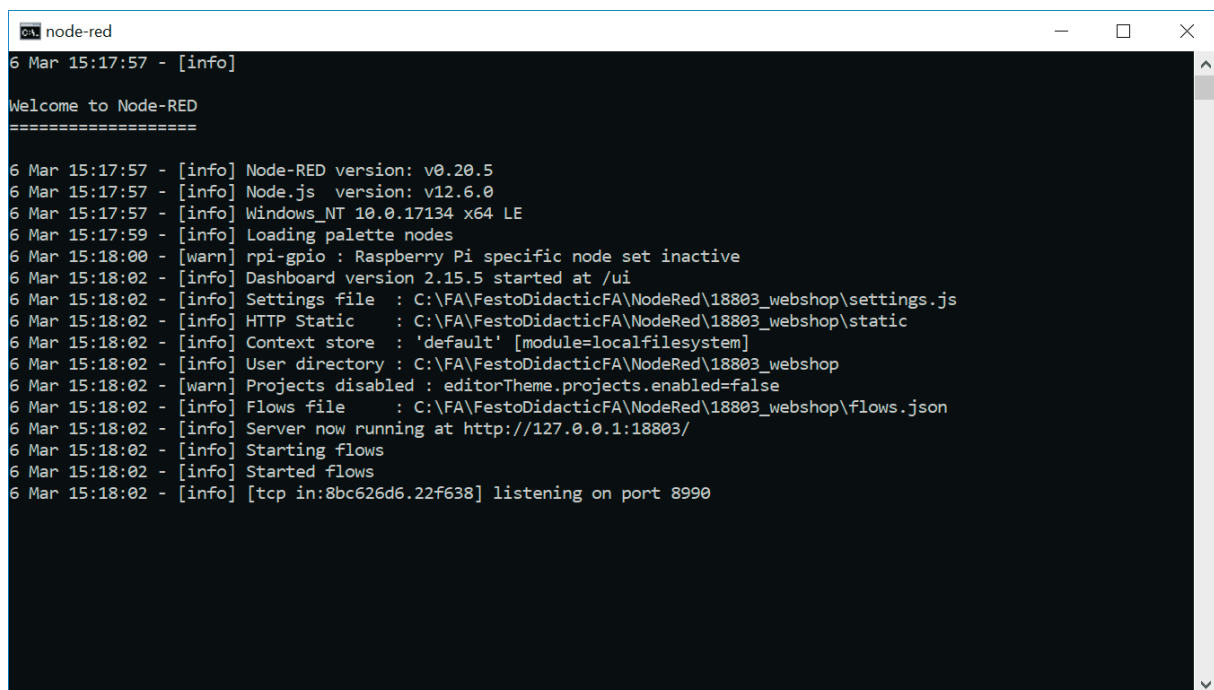
4 Order forwarding to MES4

Webshop orders are forwarded via the Node-RED application "18803_webshop".

Node-RED is a development environment based on Node.js.

4.1 Starting the Node-RED instance

The Node-RED instance starts automatically at the system startup or can be started depending on software version and delivery scope via NodeRed\18803_webshop\Start.bat. A command window appears that can be minimized. Closing the window terminates the application.

A screenshot of a Windows command prompt window titled "node-red". The window shows the following output:

```
6 Mar 15:17:57 - [info]
Welcome to Node-RED
=====
6 Mar 15:17:57 - [info] Node-RED version: v0.20.5
6 Mar 15:17:57 - [info] Node.js version: v12.6.0
6 Mar 15:17:57 - [info] Windows_NT 10.0.17134 x64 LE
6 Mar 15:17:59 - [info] Loading palette nodes
6 Mar 15:18:00 - [warn] rpi-gpio : Raspberry Pi specific node set inactive
6 Mar 15:18:02 - [info] Dashboard version 2.15.5 started at /ui
6 Mar 15:18:02 - [info] Settings file : C:\FA\FestoDidacticFA\NodeRed\18803_webshop\settings.js
6 Mar 15:18:02 - [info] HTTP Static : C:\FA\FestoDidacticFA\NodeRed\18803_webshop\static
6 Mar 15:18:02 - [info] Context store : 'default' [module=localfilesystem]
6 Mar 15:18:02 - [info] User directory : C:\FA\FestoDidacticFA\NodeRed\18803_webshop
6 Mar 15:18:02 - [warn] Projects disabled : editorTheme.projects.enabled=false
6 Mar 15:18:02 - [info] Flows file : C:\FA\FestoDidacticFA\NodeRed\18803_webshop\flows.json
6 Mar 15:18:02 - [info] Server now running at http://127.0.0.1:18803/
6 Mar 15:18:02 - [info] Starting flows
6 Mar 15:18:02 - [info] Started flows
6 Mar 15:18:02 - [info] [tcp in:8bc626d6.22f638] listening on port 8990
```

After starting the application, the algorithm tries to create all new orders via the TCP/IP interface of the MES4. If the MES4 does not respond, new requests are made periodically until the order is successfully created.

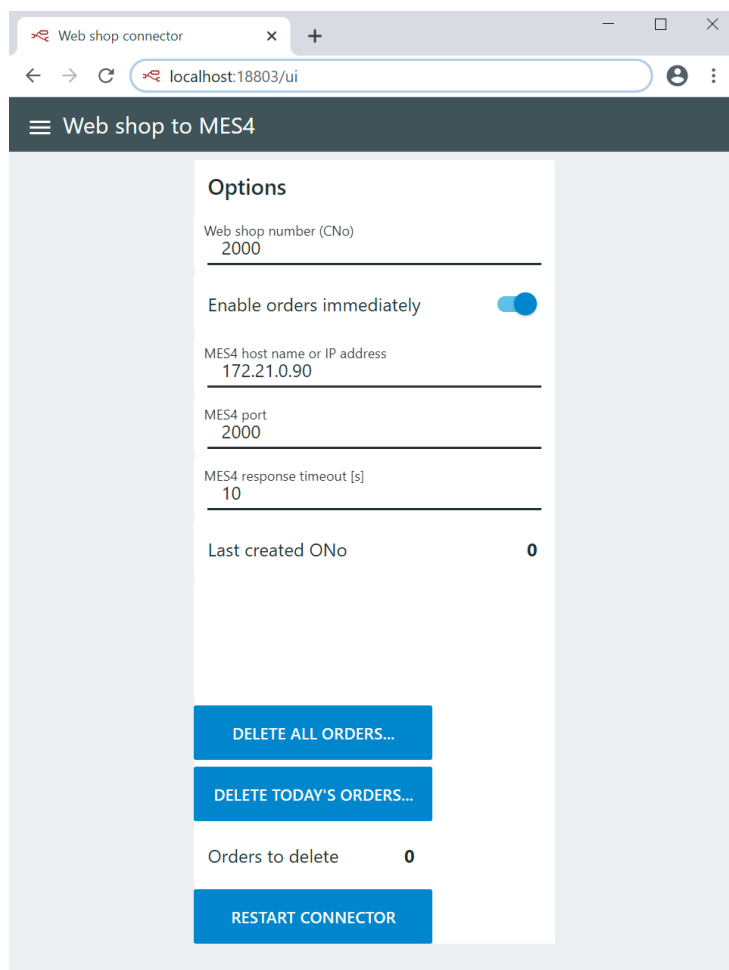
4.2 Configuring order forwarding

Order forwarding can be configured via a web front-end.

Procedure

1. Open <http://localhost:18803/ui> in a browser window
2. Options:

Webshop number:	Unique number of webshop in network This corresponds to the customer number (CNo) in MES4. The CNo must be created in MES4 so that the orders forwarded are displayed without any errors.
Enable orders immediately:	If activated, the orders are immediately active in MES4, otherwise they are listed in MES4 under "Planned Orders".
MES4 host name:	Name or IP address of MES-PC
MES4 port:	Port of TCP/IP communication, standard value: 2000
Delete all orders:	Deletes all webshop orders
Delete today's orders:	Deletes all webshop orders for the current day
Restart connector:	Restarts the application e.g. in case an error in the product configuration has stopped the processing.



5 Order tracking

The webshop orders can be tracked via the frontend, backend or via e-mail notifications.

5.1 E-mail settings

During order processing, e-mails are sent automatically via a local e-mail server.

E-mails can be received on the MES-PC with the following settings

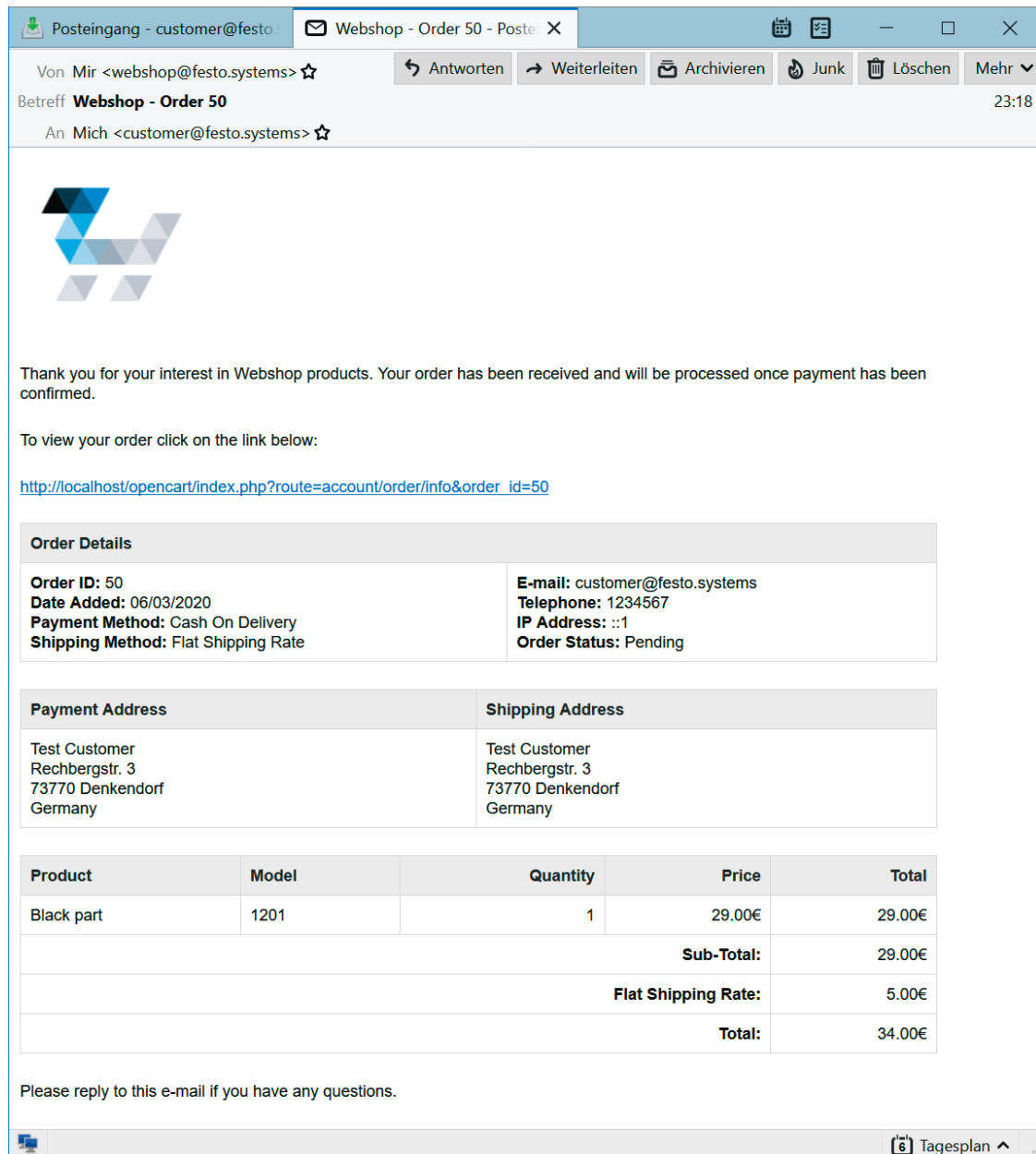
Settings	Incoming server	Outgoing server
Server type	IMAP	SMTP
Server	localhost	localhost
Port	143	587
User name	see chapter 1.5	
Password		
Connection safety	None	
Authentication method	Password, transfer unsecured	

For retrieving e-mails, the Thunderbird e-mail client is preinstalled on the MES PC.

To retrieve e-mails on other devices in the local network, the Server entry will have to be adapted in the e-mail client configuration for the devices (see chapter 1.3) and further settings made to firewalls or the network if necessary.

5.2 E-mails to customers

Order entry: The order is received in the webshop.



The screenshot shows an email client interface with a window titled "Posteingang - customer@festo." and a message titled "Webshop - Order 50 - Post". The sender is "Mir <webshop@festo.systems>" and the recipient is "Mich <customer@festo.systems>". The email content includes a logo, a thank you message, a link to view the order, and a detailed order summary table.

Thank you for your interest in Webshop products. Your order has been received and will be processed once payment has been confirmed.

To view your order click on the link below:

http://localhost/opencart/index.php?route=account/order/info&order_id=50

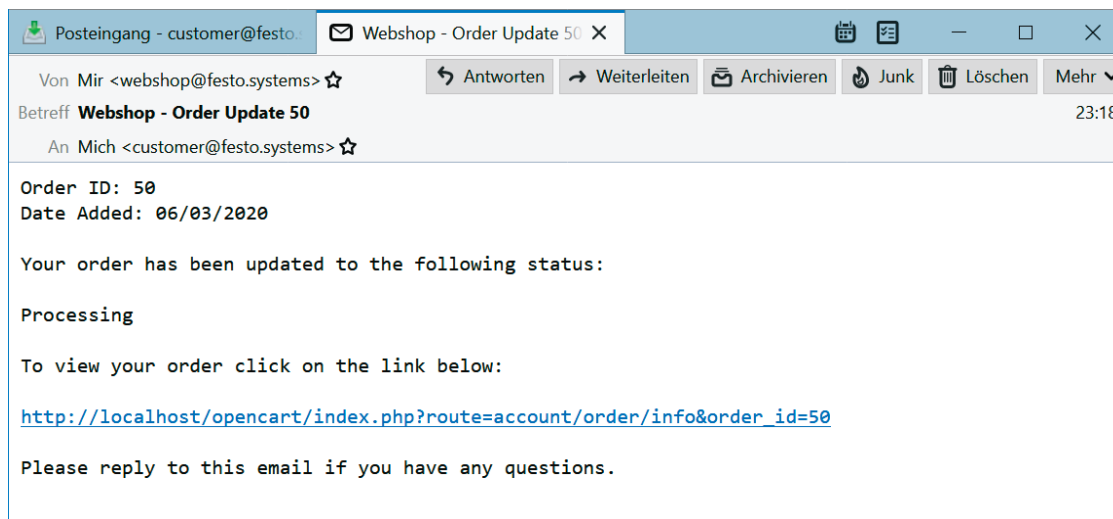
Order Details	
Order ID: 50	E-mail: customer@festo.systems
Date Added: 06/03/2020	Telephone: 1234567
Payment Method: Cash On Delivery	IP Address: ::1
Shipping Method: Flat Shipping Rate	Order Status: Pending

Payment Address	Shipping Address
Test Customer Rechbergstr. 3 73770 Denkendorf Germany	Test Customer Rechbergstr. 3 73770 Denkendorf Germany

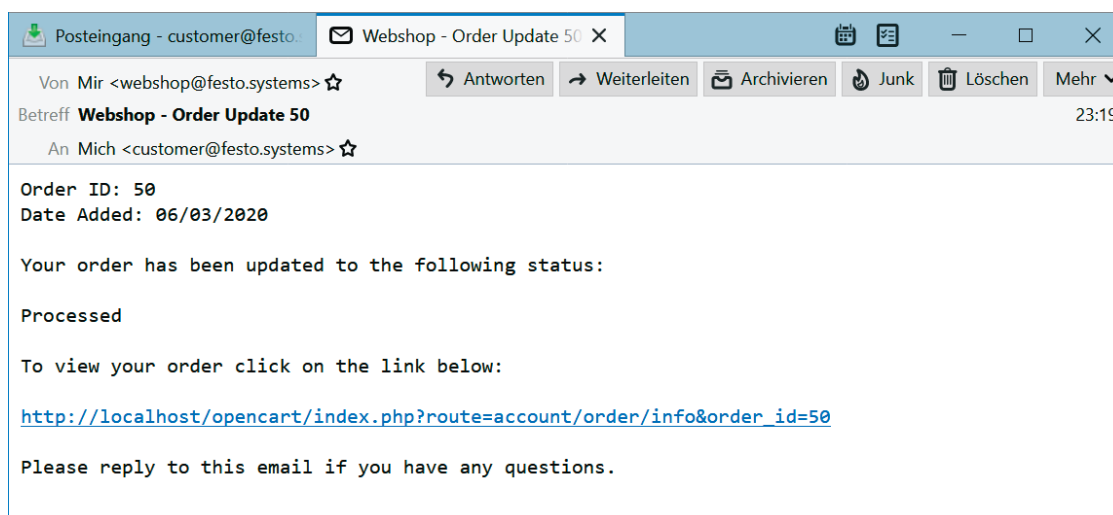
Product	Model	Quantity	Price	Total
Black part	1201	1	29.00€	29.00€
			Sub-Total:	29.00€
			Flat Shipping Rate:	5.00€
			Total:	34.00€

Please reply to this e-mail if you have any questions.

Status update "Processing": The order has been received in MES4.

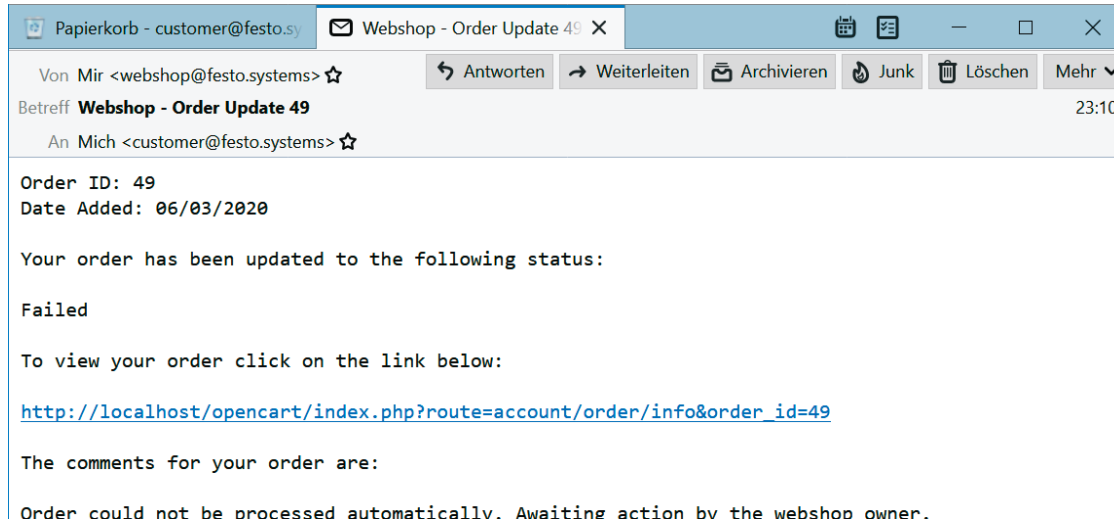


Status update "Processed": The order is registered as complete in MES4.



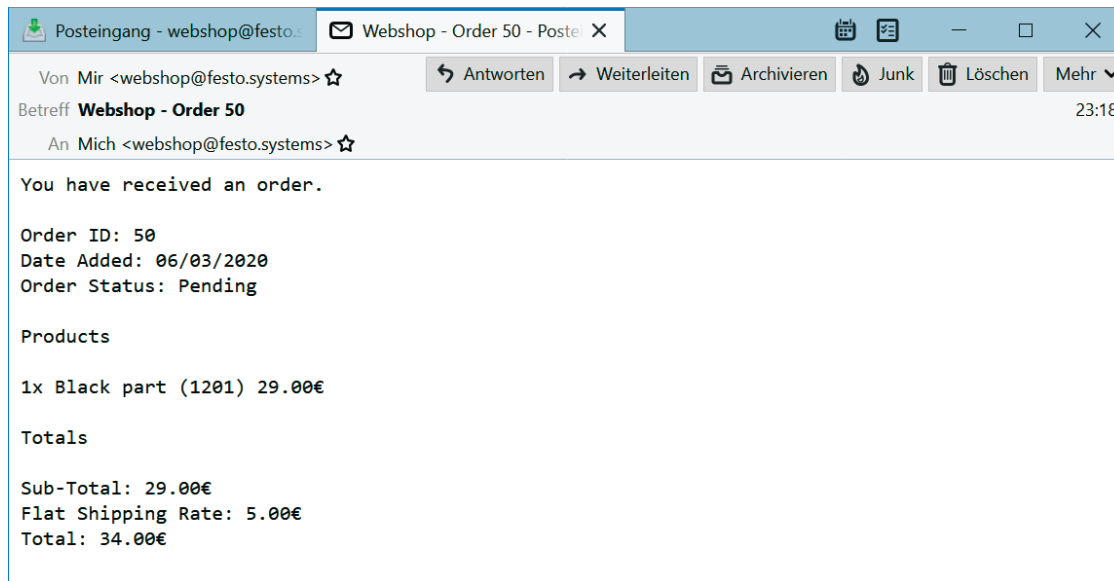
Status update "Failed": In MES4, no order could be created. This may happen for the following reasons:

- The product configured in the webshop (MES Part Number) is not available in MES4
- Configuration of the options in the webshop does not correspond precisely to the changeable parameters of the workplan

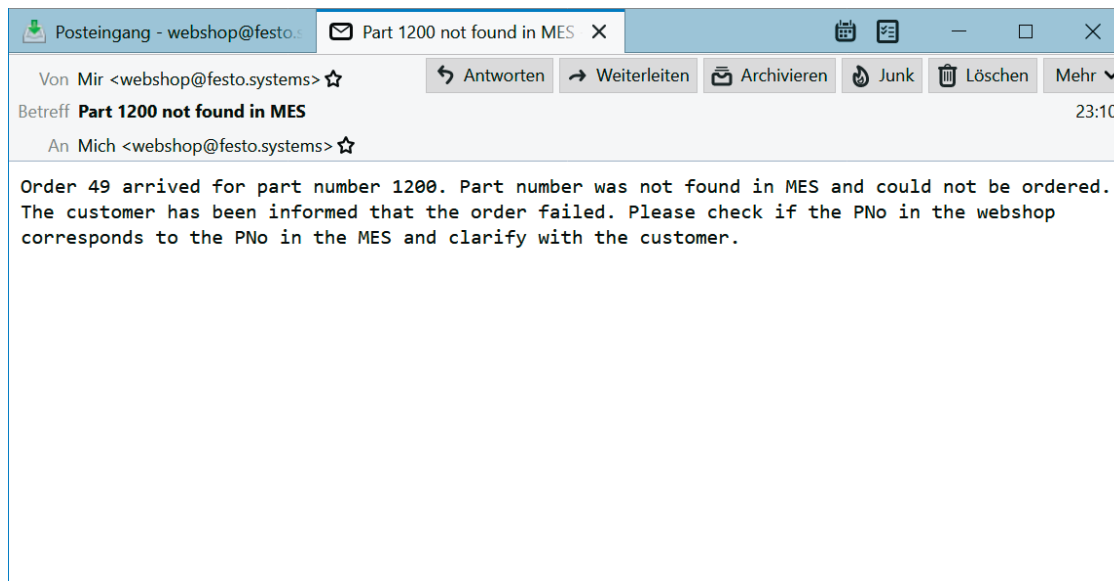


5.3 E-mails to the webshop operator

Notification about an incoming order in the webshop



Notification about failed MES4 order



5.4 Order information in the webshop frontend

The webshop frontend provides the option of tracking the order status. The status update e-mails from chapter 5.2 contain the link to the "Order Information" page.

Alternatively, the information page can be opened after the customer login (for access data see chapter 1.5) under "My Account" – "Order History" and select the corresponding order.

Besides the payment, delivery and product data, the view shows the status change history as well as the MES4 order number (ONo) as a number and as a QR code.

€ Currency ▾
+49 711 34670
My Account ▾
Wish List (1)
Shopping Cart
Checkout

Search

Q

0 item(s) - 0.00€

Home / Account / Order History / Order Information

Account

Order Details

Order ID: #50 Date Added: 2020-03-06 23:18:28	Payment Method: Cash On Delivery Shipping Method: Flat Shipping Rate
--	---

Payment Address Test Customer Rechbergstr. 3 73770 Denkendorf Germany	Shipping Address Test Customer Rechbergstr. 3 73770 Denkendorf Germany
--	---

Product Name	Model	Quantity	Price	Total	
Black part	1201	1	29.00€	29.00€	<div style="border: 1px solid #ccc; width: 20px; height: 20px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> + </div> <div style="border: 1px solid #ccc; width: 20px; height: 20px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> - </div>
Sub-Total				29.00€	
Flat Shipping Rate				5.00€	
Total				34.00€	

Order History

Date Added	Status	Comment
2020-03-06 23:18:31	Pending	
2020-03-06 23:18:35	Processing	
2020-03-06 23:19:37	Processed	

Delivery Information

QR Code

MES order no. 2001

Continue

My Account

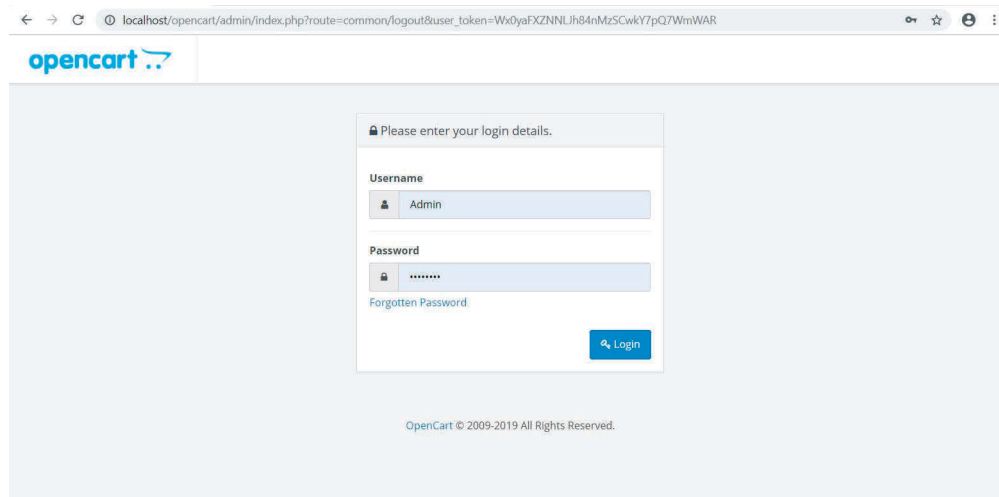
- My Account
- Edit Account
- Password
- Address Book
- Wish List
- Order History
- Downloads
- Recurring payments
- Reward Points
- Returns
- Transactions
- Newsletter
- Logout

5.5 Order information in the webshop backend

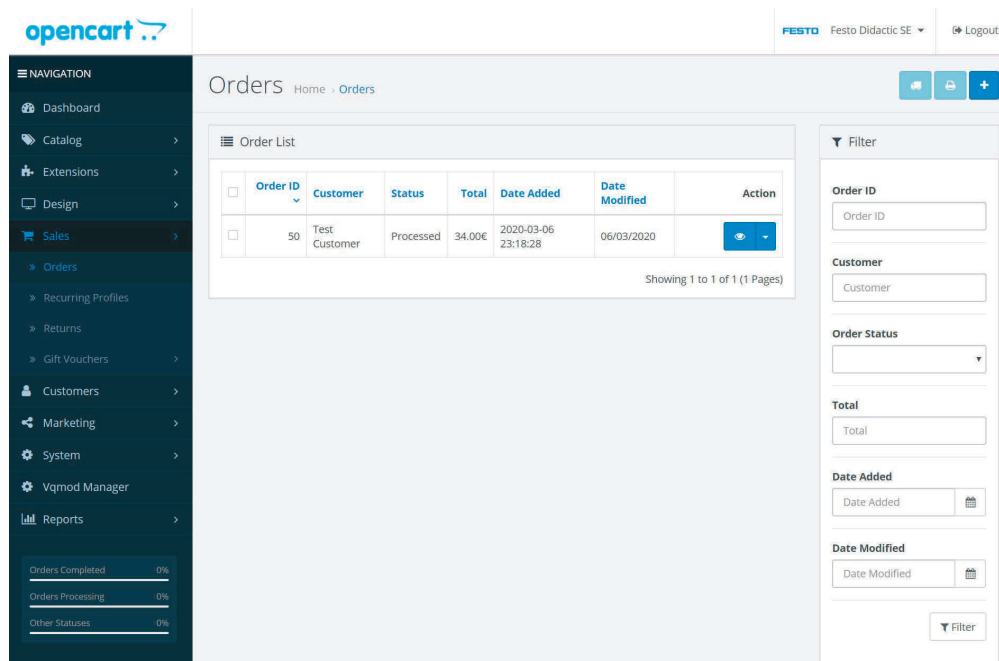
In the backend too (administrator area), the status of orders can be tracked and also changed.

Procedure

1. Start OpenCart Admin interface, log in if necessary



2. Sales – Orders
3. Select "View" in the row for the corresponding order



4. Under "Order History", the changes made to date to the order status are shown. Under "Add Order History" a new status can be set manually.

Order History

History Additional

Date Added	Comment	Status	Customer Notified
2020-03-06 23:19:37		Processed	Yes
2020-03-06 23:18:35		Processing	Yes
2020-03-06 23:18:31		Pending	No

Showing 1 to 3 of 3 (1 Pages)

Add Order History

Order Status: Processed

Override

Notify Customer

Comment:

[Add History](#)

The following statuses are usually used together with the MES4:

Status ID	Designation	Meaning
0	–	In shopping cart, order not yet submitted
1	Pending	Order submitted, pending
2	Processing	Order transferred to MES4
15	Processed	Order marked as complete in MES4
10	Failed	Order failed
5	Complete	Removed from warehouse
3	Shipped	Dispatched

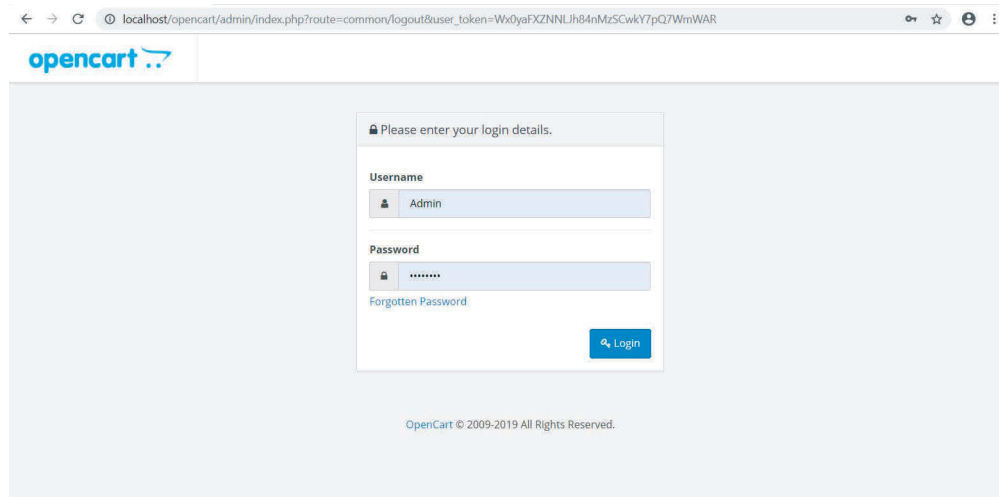
6 Invoice and dispatch note

6.1 Creating invoice

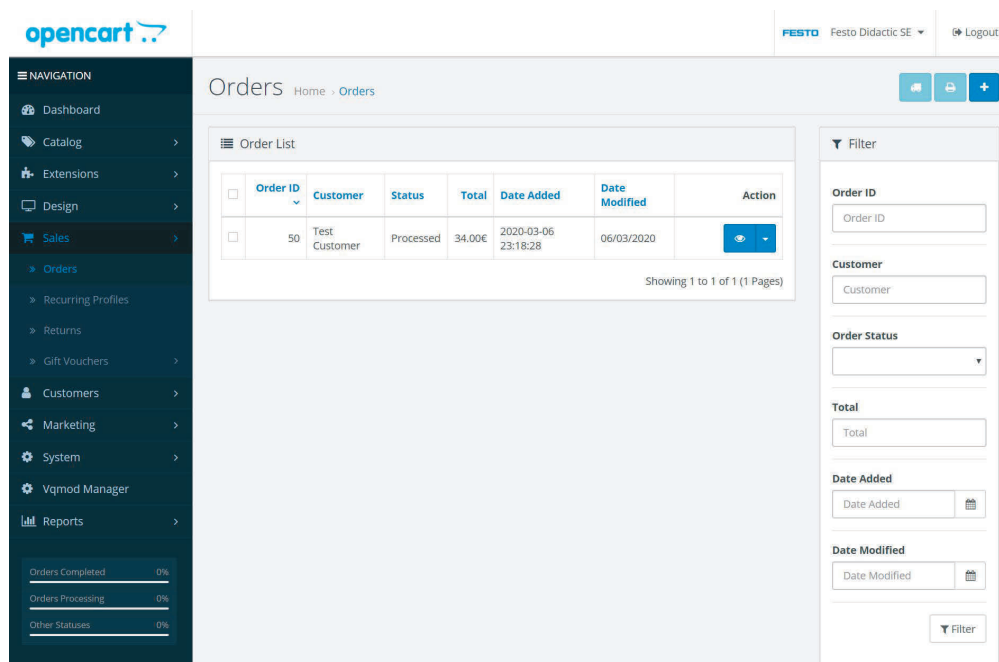
An invoice can be created in the webshop's administration area for each order.

Procedure

1. Start OpenCart Admin interface, log in if necessary



2. Sales – Orders
3. Select "View" in the row for the corresponding order



- Under Options – Invoice select the "Generate" button; a unique invoice number is created once.

The screenshot shows the OpenCart admin interface for order #50. On the left is a navigation menu with 'Sales' > 'Orders' selected. The main content area is titled 'Orders' and shows details for order #50. The 'Options' section on the right has the 'Invoice' checkbox checked. Below this, the 'Order (#50)' section displays payment and shipping addresses, and a table of items.

Product	Model	Quantity	Unit Price	Total
Black part	1201	1	29.00€	29.00€
Sub-Total				29.00€
Flat Shipping Rate				5.00€
Total				34.00€

- Select Print Invoice. The invoice including invoice number is displayed in a new browser tab.

The screenshot shows a browser window with the URL `localhost/opencart/admin/index.php?route=sale/order/invoice&user_token=zCDa2dccb2DE8VotlgcusHYVZblrl3A&orde...`. The page title is 'Invoice #50'. It displays the following information:

Order Details

Webshop
 Rechbergstr. 3
 73770 Denkendorf

Telephone +49 711 34670
E-Mail webshop@festo.systems
Web Site: http://localhost/opencart

Date Added 2020-03-06 23:18:28
Invoice No. INV-2019-001
Order ID: 50
Payment Method Cash On Delivery
Shipping Method Flat Shipping Rate

Payment Address

Test Customer
 Rechbergstr. 3
 73770 Denkendorf
 Germany

Shipping Address

Test Customer
 Rechbergstr. 3
 73770 Denkendorf
 Germany

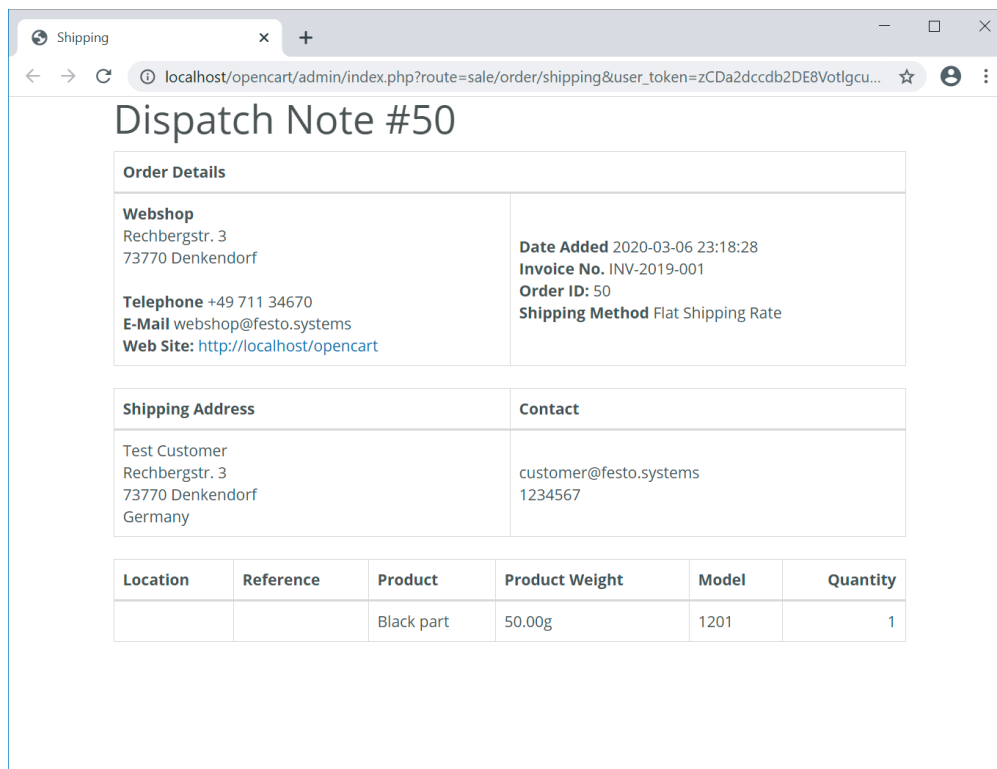
Product	Model	Quantity	Unit Price	Total
Black part	1201	1	29.00€	29.00€
Sub-Total				29.00€
Flat Shipping Rate				5.00€
Total				34.00€

6.2 Creating a dispatch note

For each order, a delivery note can be created in the admin area of the webshop.

The procedure is as in chapter 6.1 steps 1 to 3., then select "Print Shipping List".

The delivery note including invoice number is displayed in a new browser tab.



The screenshot shows a browser window with the title 'Shipping' and a URL: localhost/opencart/admin/index.php?route=sale/order/shipping&user_token=zCDa2dccb2DE8Votlgcu... The main heading is 'Dispatch Note #50'.

Order Details

Webshop Rechbergstr. 3 73770 Denkendorf	Date Added 2020-03-06 23:18:28 Invoice No. INV-2019-001 Order ID: 50 Shipping Method Flat Shipping Rate
--	--

Shipping Address

Test Customer Rechbergstr. 3 73770 Denkendorf Germany	Contact customer@festo.systems 1234567
--	---

Location	Reference	Product	Product Weight	Model	Quantity
		Black part	50.00g	1201	1

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