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Novalnet Installation Guide for SAP Commerce

Released on: 29.01.2021

Supported version: 1905

Version	Date	Remarks
1.0.0	29.01.2021	New release - Payment module implemented with seamless payment experience, including one-click payments and multi-store features of SAP Commerce

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1 QUICK SETUP

This guide describes the quick installation procedure of Novalnet payment module (this guide comes along with the module), to integrate it with your shop system and to start accepting payments worldwide. For this integration, a Novalnet merchant account is required, so please make sure that you have received your merchant account details from our sales team. If not, drop a mail to sales@novalnet.de

This Novalnet payment module package version (1.0.0) supports the following versions of SAP:



To get started:

1. Log in to the [Novalnet Admin Portal](#) with your merchant account details (user credentials) and
2. Log in to your SAP Commerce shop system.
3. Make sure that you have extracted the payment module package from the zip file you have received. If you have received only the installation guide without the payment module package (zip file), please send us a mail to technic@novalnet.de with your merchant ID.

1.1 Module Installation

To install the Novalnet Payment Module, please go to your SAP Commerce shop system and follow the steps below.

Step 1: Upload the folder **NovalnetGateway** (which you have extracted from the payment module package/zip file) into the file path: **<Root_Directory>/bin/custom**.

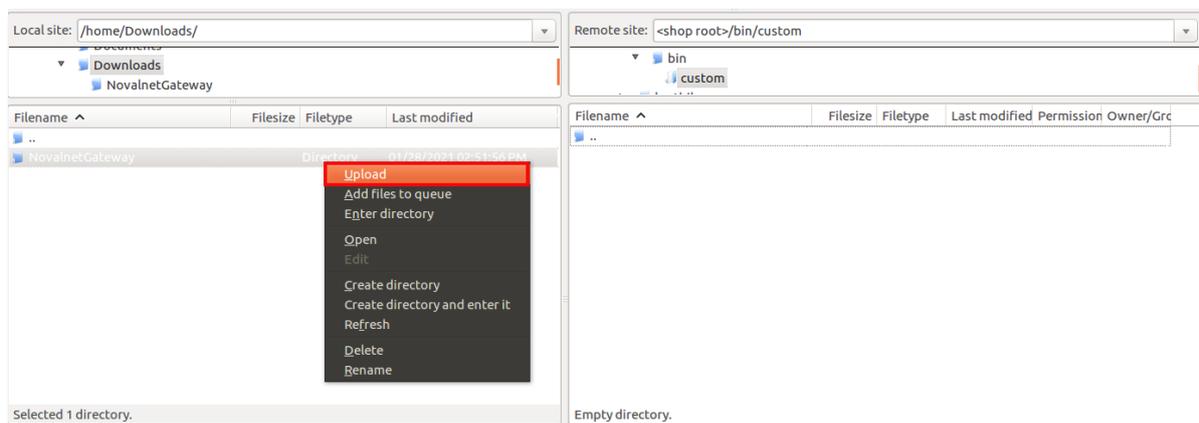


Figure 1

Step 2: To add Novalnet extensions in the shop, open **<Root_Directory>/config/localextensions.xml** file and paste the following code as shown below

Search the below line

```
</extensions>
```

Add the following code above the searched line

```
<extension dir="{HYBRIS_BIN_DIR}/custom/NovalnetGateway/novalnetcore"/>
```

```
<extension dir="{HYBRIS_BIN_DIR}/custom/NovalnetGateway/novalnetcheckoutaddon"/>
```

```
<extension dir="{HYBRIS_BIN_DIR}/custom/NovalnetGateway/novalnetbackoffice"/>
```

Step 3: Next, open the file path: <Root_Directory>/bin/platform in your terminal and run the below command to install the Novalnet payment module.

```
/var/www/shop_root/hybris/bin/platform$ ant addoninstall -Daddonnames=novalnetcheckoutaddon -DaddonStorefront.yacceleratorstorefront=yacceleratorstorefront_
```

Step 4: After executing the above command, rebuild and restart the hybris server.

Step 5: Go to **hybris administration console** → **Platform** → **Update** and do the following actions step by step.

- Update running system
- Clear the hMC configuration from the database
- Create essential data
- Localize types
- Set **novalnetcheckoutaddon** with sync content catalogs as **yes**.

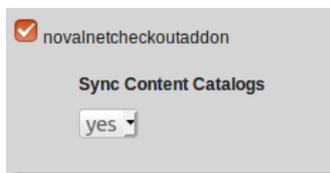


Figure 2

1.2 Global Configuration in the SAP Commerce shop system

After successful installation of the Novalnet module, open shop backend and navigate to **Base Commerce** → **Base Store** → <Store> → **NOVALNET**. Here you can view the Novalnet Global Configuration settings. Enter the following keys as shown below:

- ❶ **Product activation key** - a unique token used for merchant authentication and payment processing.
- ❷ **Payment access key** - a secret key assigned to each merchant which encrypts the data to avoid user manipulation and fraud.
- ❸ **Tariff ID** – a unique identifier which is dynamically created based on the tariff type at Novalnet.
- ❹ **Client key** - a unique key which is linked with your Novalnet merchant account to authenticate your client based requests. You need the client key to render the secure payment form and tokenize (temporarily) the sensitive information.

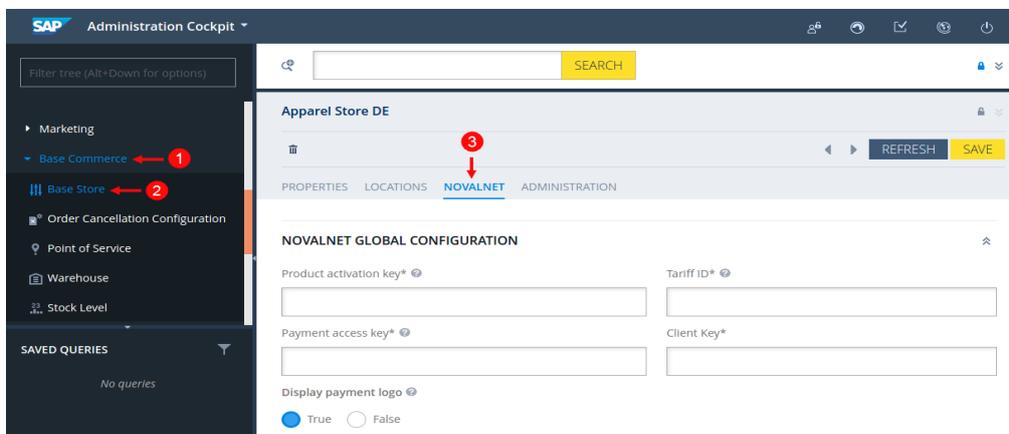


Figure 3

To get your **Product activation key**, **Tariff ID**, **Payment access key** and **Client key**, log in to the [Novalnet Admin Portal](#), navigate to **PROJECT** menu and choose your project as shown below

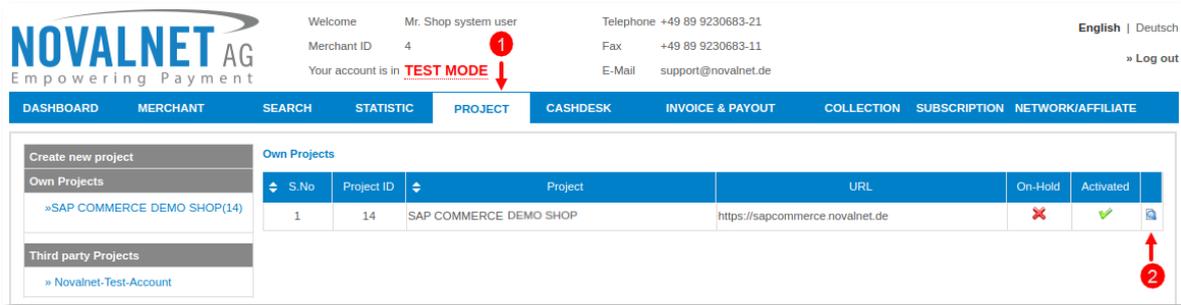


Figure 4

Click **Shop Parameters** and copy **API Signature (Product activation key)**, **Tariff ID**, **Payment access key** and **Client key** as shown below

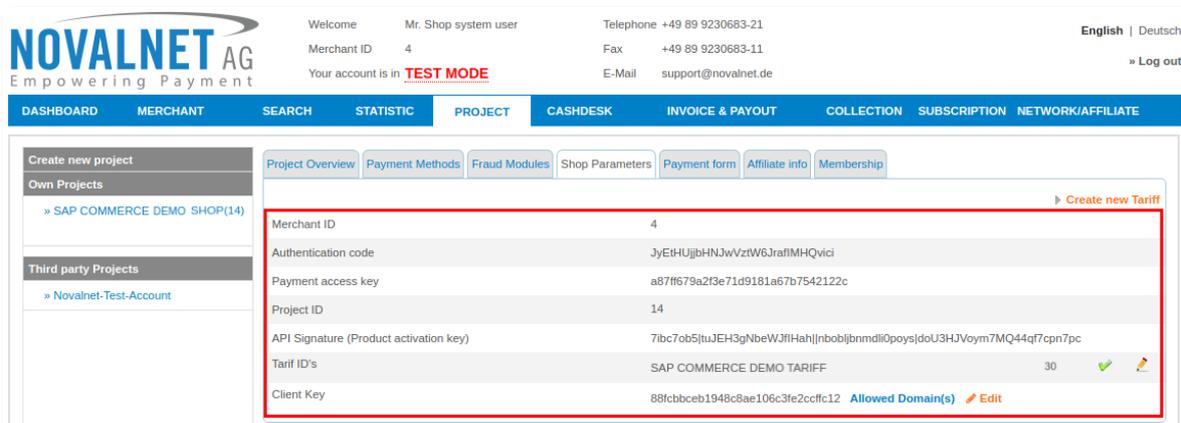


Figure 5

Navigate to your shop admin and paste the copied values in the respective fields as shown in below image and click **Save** to update / save the changes made.

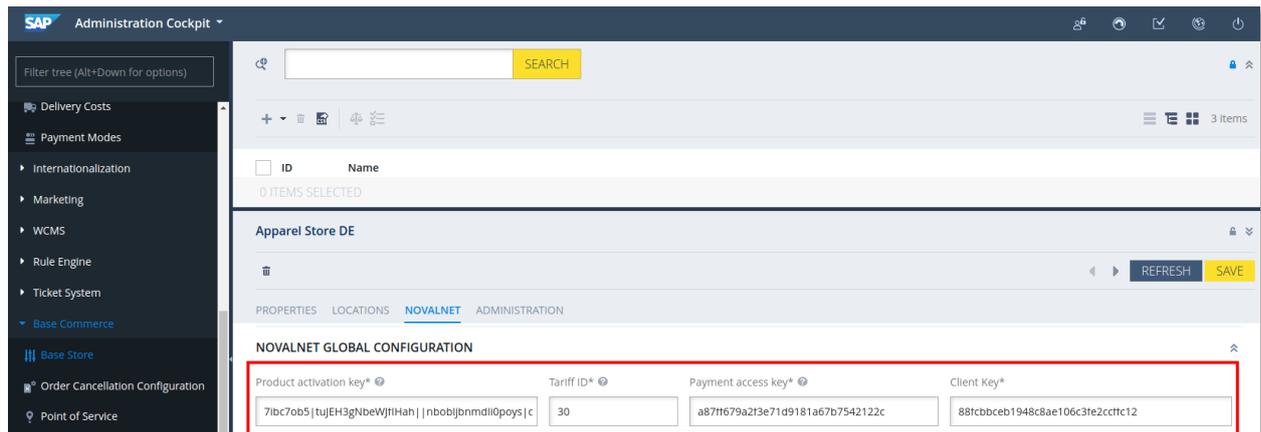


Figure 6

1.2.1 Notification/Webhook URL Configuration in the SAP Commerce shop system

Novalnet Webhooks are used to communicate with your site. Webhook URL configuration is required to keep the merchant's database/system up to date and synchronized with Novalnet (example: up-to-date transaction status delivery).

For Webhook synchronization, open `<Root_Directory>/config/local.properties` and paste the below code.

```
csrf.allowed.url.patterns=/[^/]+(/[^\?]*)+(sop/response)$,/[^/]+(/[^\?]*)+(merchant_callback)$,/[^/]+(/[^\?]*)+(hop/response)$,/[^/]+(/[^\?]*)+(language)$,/[^/]+(/[^\?]*)+(currency)$,/novalnet/callback(/[^\?]*)+$
```

1.2.2 Notification/Webhook URL Configuration in the Novalnet Admin Portal

Configure the Webhook Endpoint URL into your [Novalnet Admin Portal](#) account by following the below steps,

1. Copy the Webhook Endpoint URL and sign in to the [Novalnet Admin Portal](#), Navigate to **PROJECT** menu and choose your project as shown in [Figure 4](#).

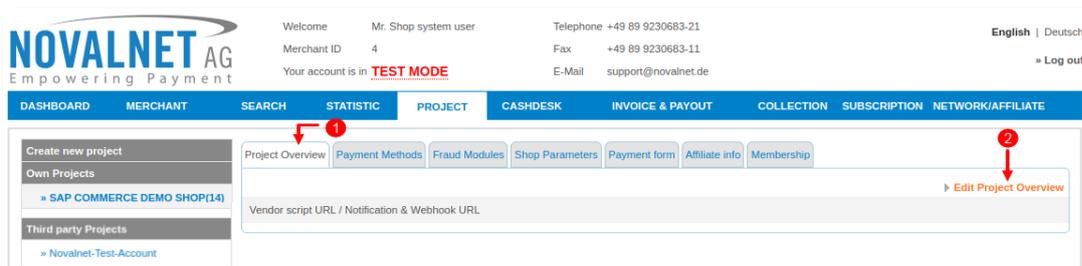


Figure 7

2. Go to **Project Overview**, click **Edit Project Overview** and paste the copied Webhook Endpoint URL into the Vendor script URL/ Notification & Webhook URL and click the **Update** button.

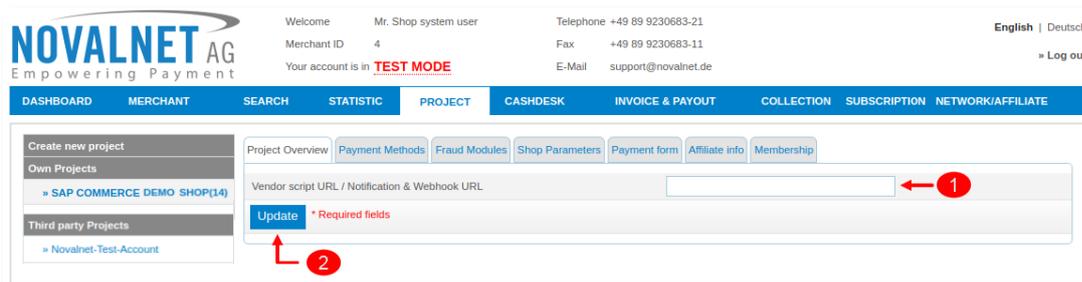


Figure 8

👉 The absolute path of the Webhook Endpoint URL must look like the below URL:
<http://www.yourwebsite.com/novalnet/callback>

1.2.3 Client key configuration in the Novalnet Admin Portal

Novalnet allows client-side request(s) only from the **whitelisted domains under a particular project** so you must whitelist your domains in the [Novalnet Admin Portal](#). The whitelisted domain should always be a valid (secured https://) website. Please follow the below steps to whitelist the domains in the [Novalnet Admin Portal](#). You can configure multiple domain URLs under a single client key.

Step 1: Log in to the [Novalnet Admin Portal](#) with your Novalnet merchant account details.

Step 2: Navigate to the **PROJECT** menu and click view icon on the right to view your project details as shown below

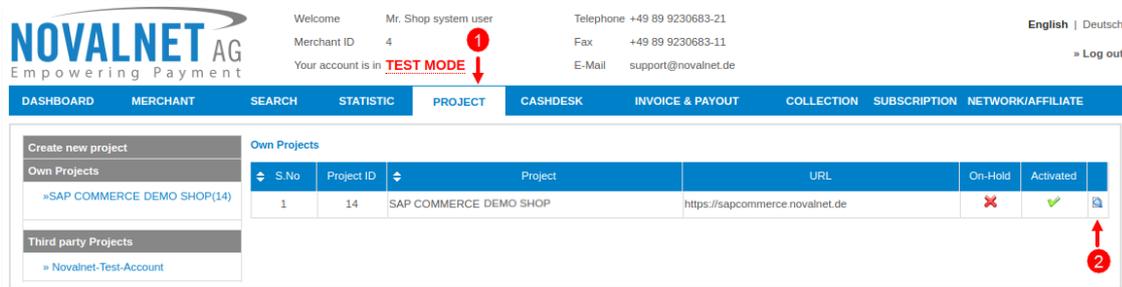


Figure 9

Step 3: On the project details page click **Shop Parameters** and click **Edit** beside **Allowed Domain(s)** as shown below

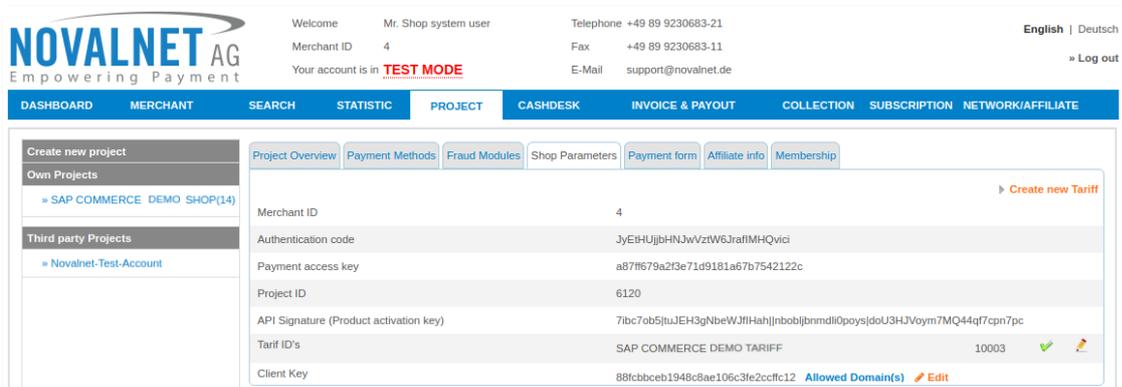


Figure 10

Step 4: Paste your website URL in the **Domain name** field and click **+ Add** as shown below

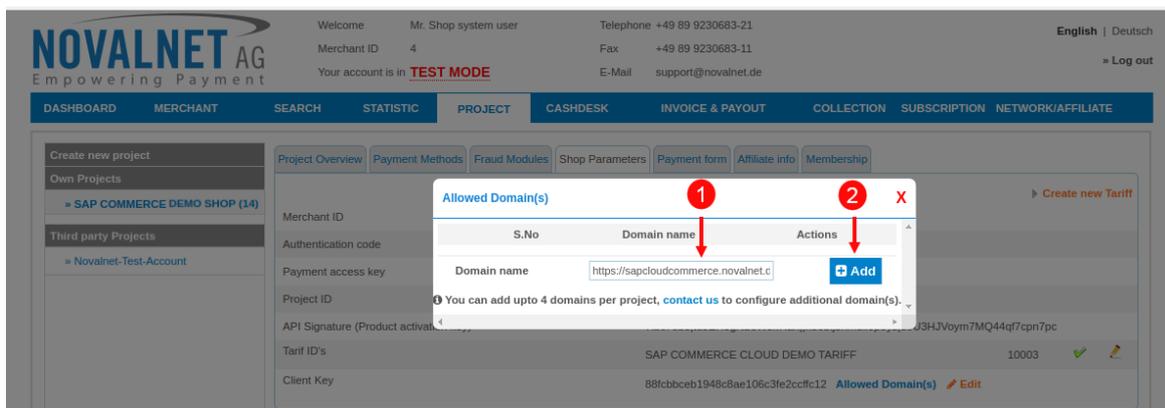
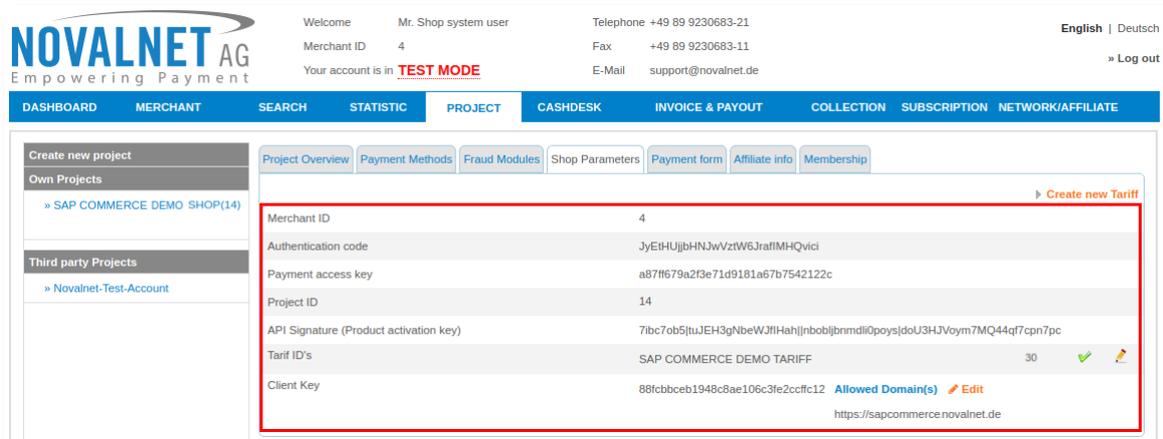


Figure 11

Step 5: After successfully adding the **Domain name**, the web URLs are listed under **Allowed Domain(s)** as shown below



NOVALNET AG Empowering Payment

Welcome Mr. Shop system user Telephone +49 89 9230683-21 English | Deutsch
 Merchant ID 4 Fax +49 89 9230683-11 » Log out
 Your account is in **TEST MODE** E-Mail support@novалnet.de

DASHBOARD MERCHANT SEARCH STATISTIC **PROJECT** CASHDESK INVOICE & PAYOUT COLLECTION SUBSCRIPTION NETWORK/AFFILIATE

Create new project
 Own Projects
 » SAP COMMERCE DEMO SHOP (14) Create new Tariff
 Third party Projects
 » Novalnet-Test-Account

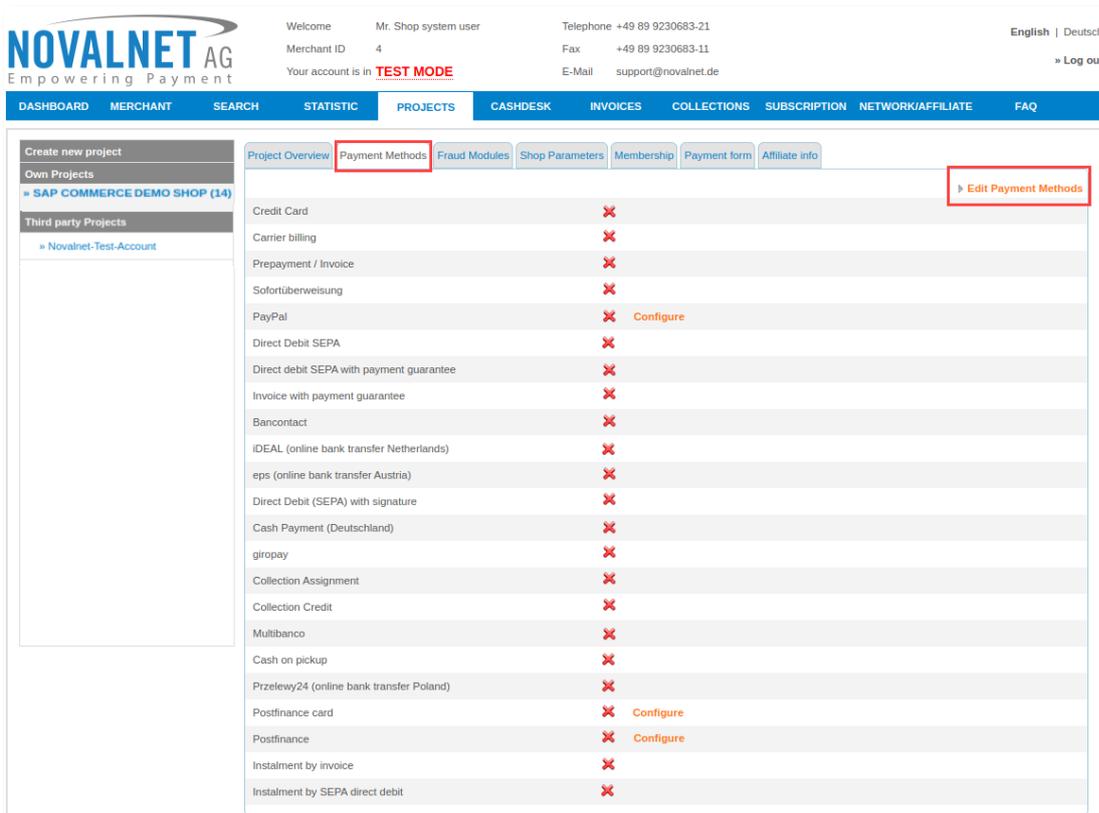
Project Overview Payment Methods Fraud Modules Shop Parameters Payment form Affiliate info Membership

Merchant ID	4
Authentication code	JyEiH-UjbbHNJwVztW6JraflMHQvici
Payment access key	a87f679a2f3e71d9181a67b7542122c
Project ID	14
API Signature (Product activation key)	7bc7ob5[tuJEH3gNbeWJfHah][nboj]brndii0pays[doU3HJVoy7MQ44q7cpn7pc
Tarif ID's	SAP COMMERCE DEMO TARIFF 30 ✓ ✎
Client Key	88fcbbceb1948c8ae106c3fe2ccff12 Allowed Domain(s) ✎ Edit https://sapcommerce.novalnet.de

Figure 12

1.3 Payment Activation in the Novalnet Admin Portal

To activate the preferred payment methods, go to [Novalnet Admin portal](#). Navigate to **PROJECT** and choose your project as mentioned [Figure 4](#). Navigate to **Payment Methods** and click **Edit Payment Methods** in the top right corner as shown below



NOVALNET AG Empowering Payment

Welcome Mr. Shop system user Telephone +49 89 9230683-21 English | Deutsch
 Merchant ID 4 Fax +49 89 9230683-11 » Log out
 Your account is in **TEST MODE** E-Mail support@novалnet.de

DASHBOARD MERCHANT SEARCH STATISTIC **PROJECTS** CASHDESK INVOICES COLLECTIONS SUBSCRIPTION NETWORK/AFFILIATE FAQ

Create new project
 Own Projects
 » SAP COMMERCE DEMO SHOP (14) Edit Payment Methods
 Third party Projects
 » Novalnet-Test-Account

Project Overview **Payment Methods** Fraud Modules Shop Parameters Membership Payment form Affiliate info

Credit Card	✗
Carrier billing	✗
Prepayment / Invoice	✗
Sofortüberweisung	✗
PayPal	✗ Configure
Direct Debit SEPA	✗
Direct debit SEPA with payment guarantee	✗
Invoice with payment guarantee	✗
Bancontact	✗
IDEAL (online bank transfer Netherlands)	✗
eps (online bank transfer Austria)	✗
Direct Debit (SEPA) with signature	✗
Cash Payment (Deutschland)	✗
giropay	✗
Collection Assignment	✗
Collection Credit	✗
Multibanco	✗
Cash on pickup	✗
Przelewy24 (online bank transfer Poland)	✗
Postfinance card	✗ Configure
Postfinance	✗ Configure
Instalment by invoice	✗
Instalment by SEPA direct debit	✗

Figure 13

Select the preferred payment methods and click **Update** as shown below

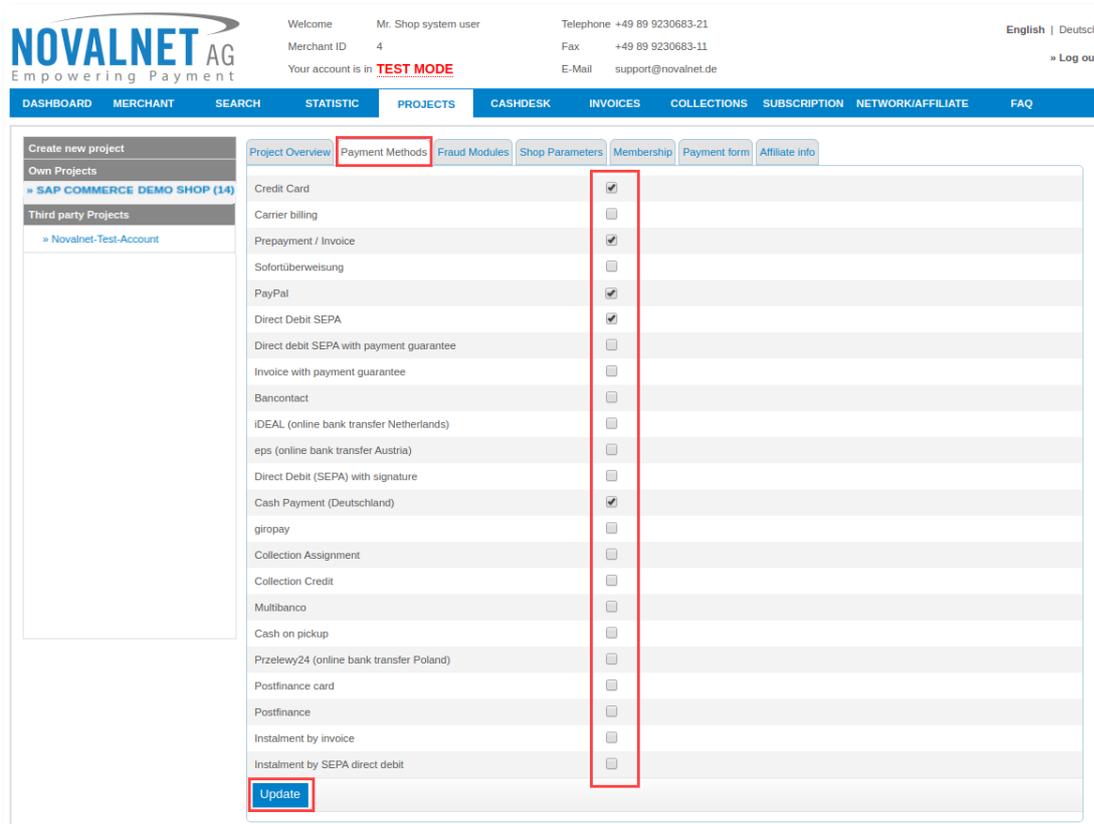


Figure 14

❗ Configure PayPal API details in [Novalnet Admin Portal](#) to use PayPal payment method. Click **PROJECT** → **Payment Methods** → **PayPal** and update the required settings.

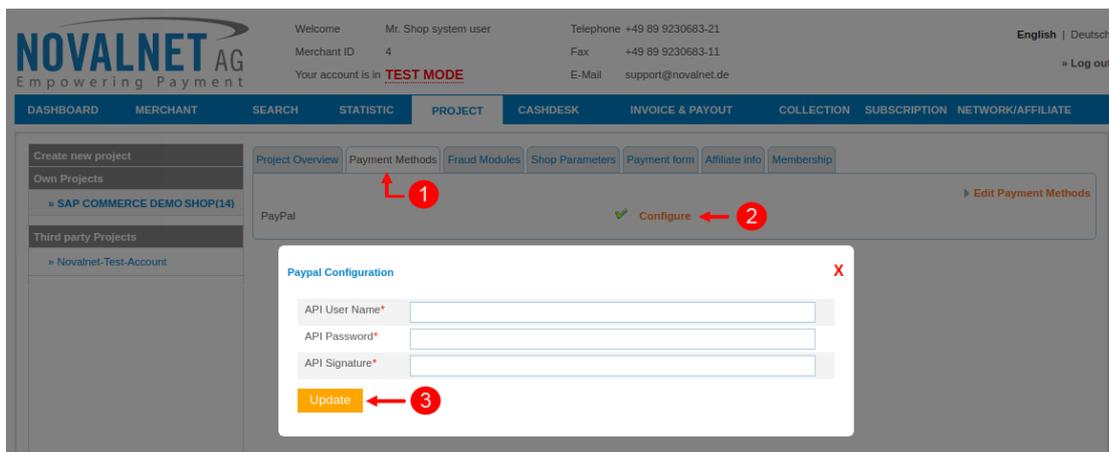


Figure 15

- ① Configure Ep2-Merchant ID details in [Novalnet Admin Portal](#) to use PostFinance Card payment method. Click **PROJECT** → **Payment Methods** → **Postfinance card** configuration and update the required settings.

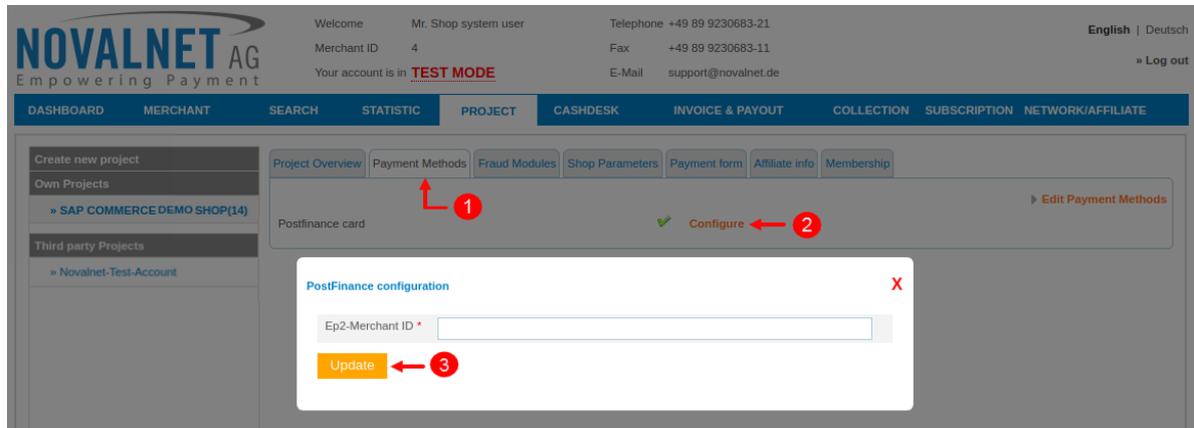


Figure 16

- ① Configure Ep2-Merchant ID details in [Novalnet Admin Portal](#) to use PostFinance payment method. Click **PROJECT** → **Payment Methods** → **PostFinance** configuration and update the required settings.

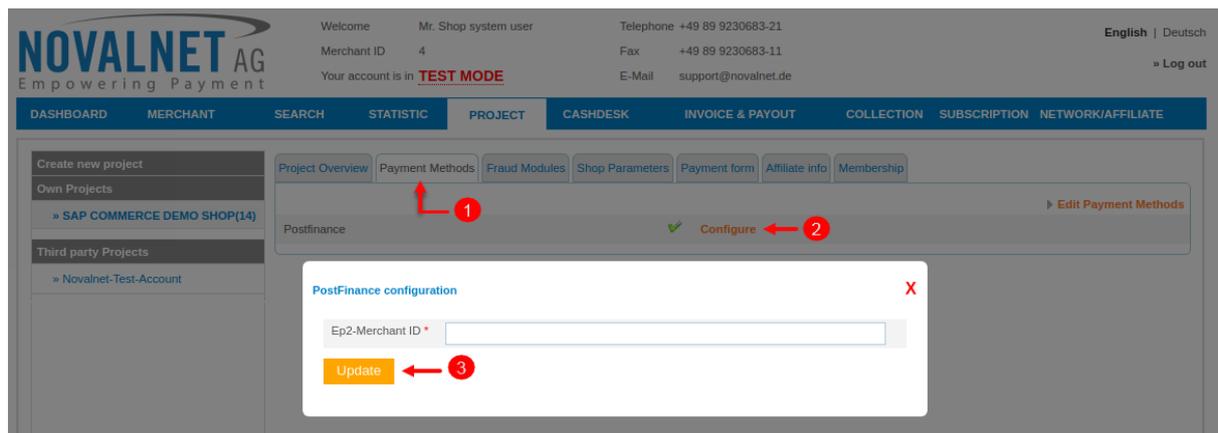


Figure 17

1.4 Payment Configuration in the SAP Commerce shop system

To view the Novalnet payment methods in the shop system, go to **Price Settings** → **Payment Modes**. Select the individual payment methods, and click the **PROPERTIES** tab.

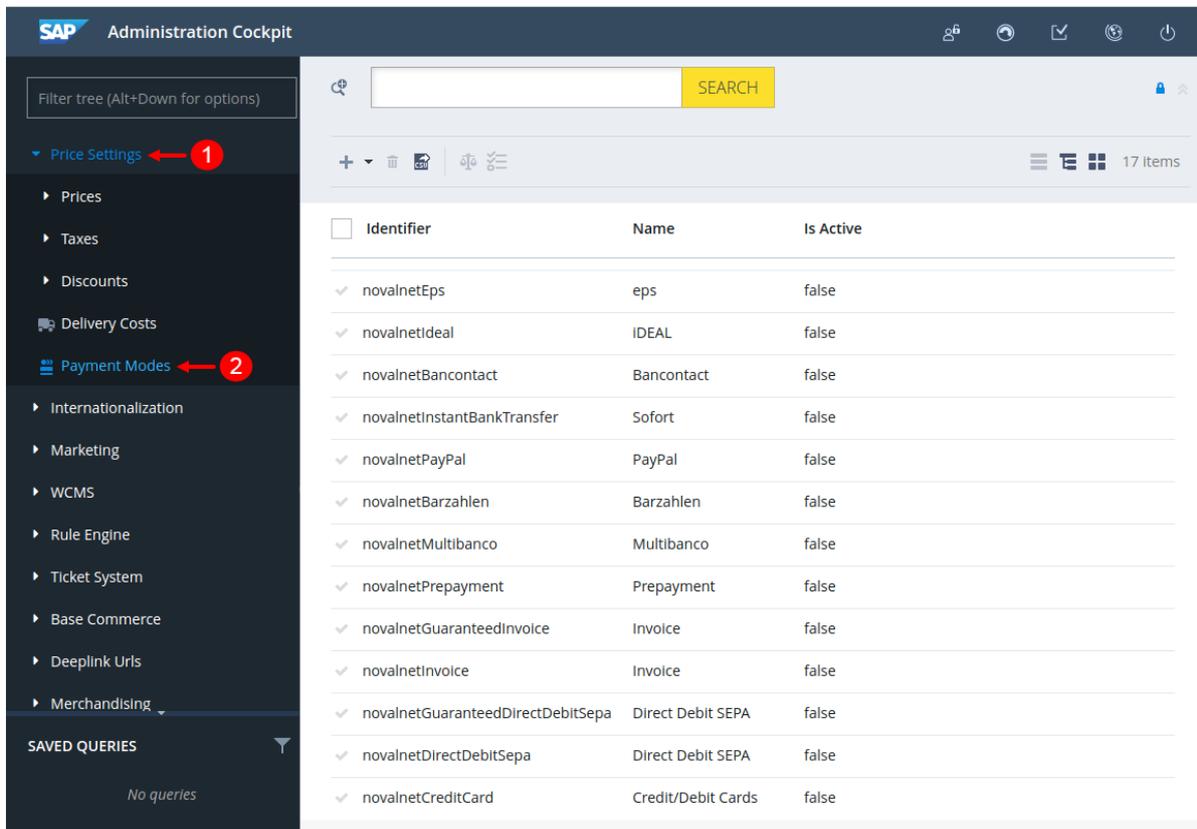


Figure 18

Set the status of **Is Active** as **True** to activate the preferred payment methods as shown below. By default, payment status will be set as **False**. Finally, click **Save** to save the changes.

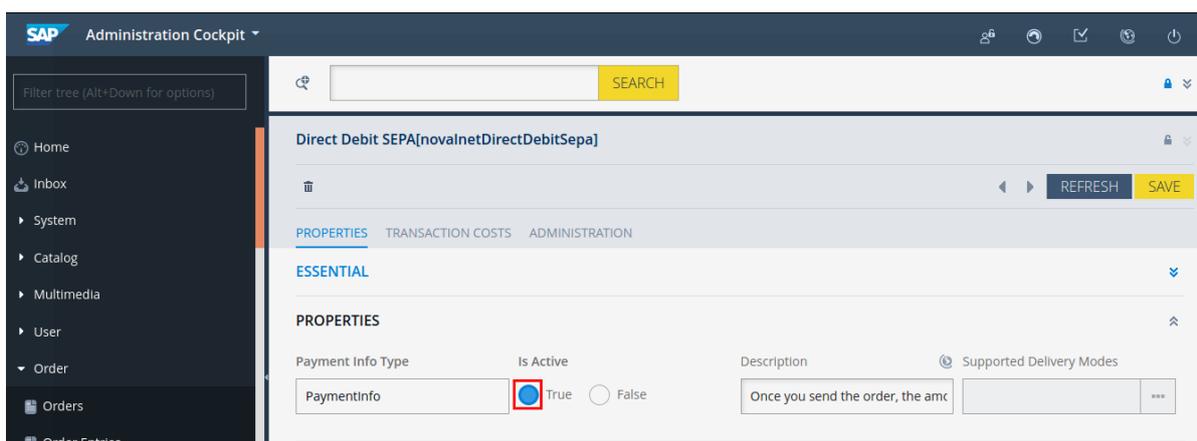


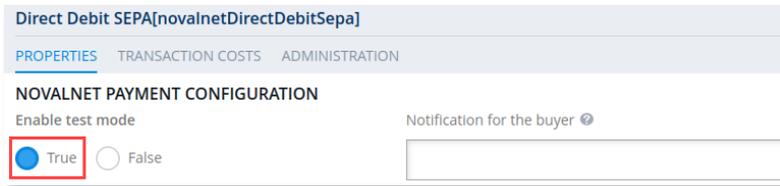
Figure 19

Refer chapter [3 ADDITIONAL CONFIGURATION](#) for more payment configurations.

i If you have any recommendations or suggestions for improvement, kindly share your thoughts with us to develop our payment module further to technic@novalnet.de or call us at +49 89 9230683-19.

2 TESTING AND GOING LIVE

To execute test transactions for individual payment methods, please make sure that you have enabled test mode in the **NOVALNET PAYMENT CONFIGURATION**. This can be done through the individual payment configuration page as shown in the image below. Finally, click **Save** to save the changes.



Direct Debit SEPA[novalnetDirectDebitSepa]

PROPERTIES TRANSACTION COSTS ADMINISTRATION

NOVALNET PAYMENT CONFIGURATION

Enable test mode Notification for the buyer ?

True False

Figure 20

i Refer below URL for the Novalnet test payment data for testing
<https://developer.novalnet.de/docs/testing/>

Execute orders in LIVE MODE

To proceed with **LIVE** orders, Don't forget to disable the **Enable test mode** option in the individual payment configuration page.

i If you have any recommendations or suggestions for improvement, kindly share your thoughts with us to develop our payment module further to technic@novalnet.de or call us at +49 89 9230683-19.

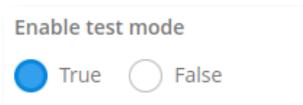
3 ADDITIONAL CONFIGURATION

3.1 Additional configuration for all the payment methods

For additional payment configuration settings for each payment methods, navigate to **Price Settings** → **Payment Modes** and then click each payment methods on the right side to configure the required additional payment settings.

Enable test mode

To test individual payment method at your checkout page, click **Enable test mode** as shown below. In the test mode, the transaction amount will not be charged by Novalnet.



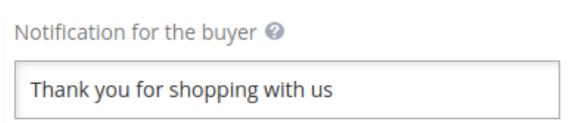
Enable test mode

True False

Figure 21

Notification for the buyer

Text entered in this field will be displayed on the payment checkout page. The message can be for example: *Thank you for shopping with us.*



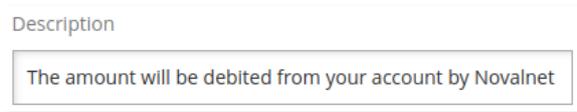
Notification for the buyer ?

Thank you for shopping with us

Figure 22

Description

Provide the payment description that will be displayed in the checkout page.



Description

The amount will be debited from your account by Novalnet

Figure 23

Payment Action (Debit immediately / Reserve funds for later)

☛ This option is available only for the following payment methods:

Credit/Debit Cards, Direct Debit SEPA, Direct Debit SEPA with payment guarantee, Instalment by Direct Debit SEPA, Invoice, Invoice with payment guarantee, Instalment by Invoice and PayPal.

You can choose between two options – **Capture** and **Authorize** which are both explained below

- ① **Capture** - This is the default setting where transactions are directly confirmed, and funds are automatically transferred from buyer's account to the merchant account while placing an order. This can be changed as per your business requirement.

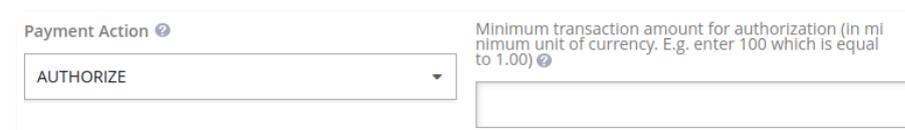


Payment Action ?

CAPTURE

Figure 24

- ① **Authorize** - Payment details are verified while the funds are reserved, which will be captured later. Please note for card payments, if you fail to execute a capture within 14 days the reservation on the card will automatically expire!
- ① **Minimum transaction amount for authorization** - Transactions above this amount will be “authorized” only and captured later. Leave the field blank to authorize all transactions.



Payment Action ?

AUTHORIZE

Minimum transaction amount for authorization (in minimum unit of currency. E.g. enter 100 which is equal to 1.00) ?

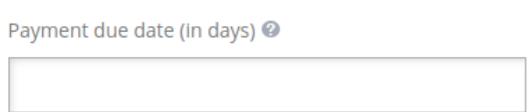
Figure 25

Payment due date (in days)

Payment due date (in days) refers to the duration (number of days) given for buyer to complete the payment. The payment process and duration may differ for each payment method.

☛ This option is available only for the following payment methods:

Direct Debit SEPA, Direct Debit SEPA with payment guarantee, Instalment by Direct Debit SEPA, Invoice, Prepayment and Barzahlen.



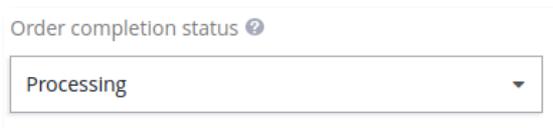
Payment due date (in days) ?

Figure 26

- ❗ For **Direct Debit SEPA, Direct Debit SEPA with payment guarantee & Instalment by Direct Debit SEPA**, enter the number of days after which the payment is debited (must be greater than 7 days).
- ❗ For **Invoice**, enter the number of days given to the buyer to transfer the amount to Novalnet (must be greater than 7 days). If this field is left blank, 14 days will be set by default.
- ❗ For **Prepayment**, enter the number of days given to the buyer to transfer the amount to Novalnet (must be greater than 7 days). If this field is left blank, 14 days will be set by default.
- ❗ For **Barzahlen**, enter the number of days given to the buyer to pay at a store nearby. If this field is left blank, 14 days will be set by default for slip expiry.

Order completion status

Set the status that will be used for completed orders.



Order completion status ⓘ
Processing ▼

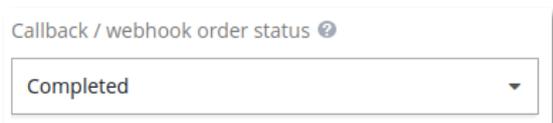
Figure 27

Callback/Webhook order status

☛ This option is available only for the following payment methods:

Invoice, Prepayment, Barzahlen and Multibanco.

Set the status that will be applied for orders when Webhook/callback script returns successful payment status.



Callback / webhook order status ⓘ
Completed ▼

Figure 28

Payment guarantee configuration

When the basic requirements are met, Novalnet offers you the option to process payments as guarantee payments. For more information about Novalnet's guarantee payments, Please visit: <https://developer.novalnet.de/onlinepayments/aboutguarantee>

Force Non-Guarantee payment

☛ This option is available only for the following payment methods:

Direct Debit SEPA with payment guarantee and Invoice with payment guarantee.

Enable this option to process payments as non-guarantee payments when the guarantee conditions are not met.



Force non-guarantee payment (Make sure the Direct Debit SEPA payment is enabled to use this option.) ⓘ
 True False

Figure 29

3.2 Additional configuration for Credit/Debit Cards

Custom CSS settings

If you wish to change the default design of the Credit/Debit Cards form (for example to use your corporate identity), you can do it here. Leave this field unchanged to use the default settings.

CSS SETTINGS FOR CREDIT CARD IFRAME

Label	Input field	CSS Text
font-family: Raleway,Helvetica Neue,Verdana,Arial,sans	color: #636363;font-family: Helvetica Neue,Verdana,Ar	

Figure 30

4 ORDER MANAGEMENT

Manage your orders and view their details under **Order** → **Orders** menu in your shop admin panel as shown below

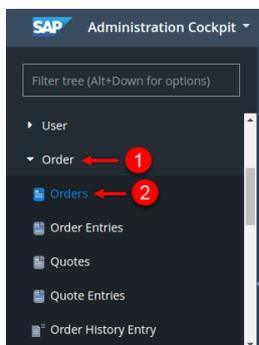
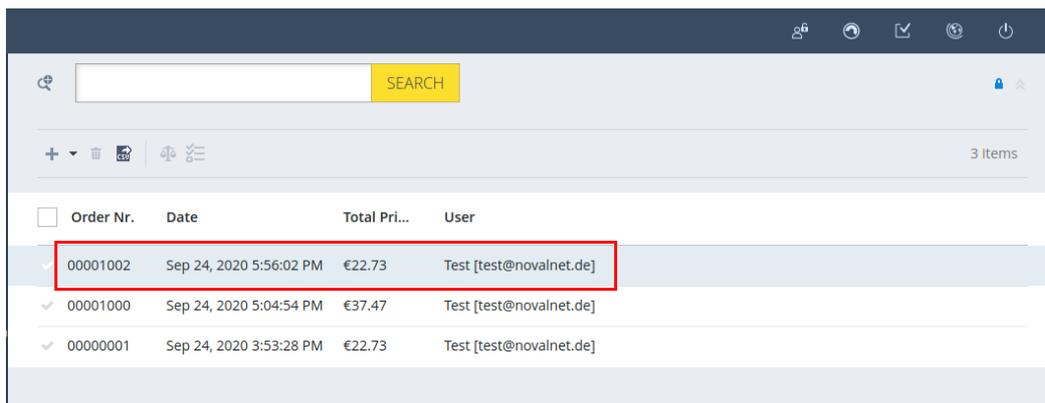


Figure 31

4.1 Transaction Overview

Click on the particular order number to review the overview of the Novalnet transaction details as shown below



Order Nr.	Date	Total Pri...	User
00001002	Sep 24, 2020 5:56:02 PM	€22.73	Test [test@novalnet.de]
00001000	Sep 24, 2020 5:04:54 PM	€37.47	Test [test@novalnet.de]
00000001	Sep 24, 2020 3:53:28 PM	€22.73	Test [test@novalnet.de]

Figure 32

You can view the Novalnet transaction details of selected order by navigating to **TRACKING** → **DETAILS** as shown below

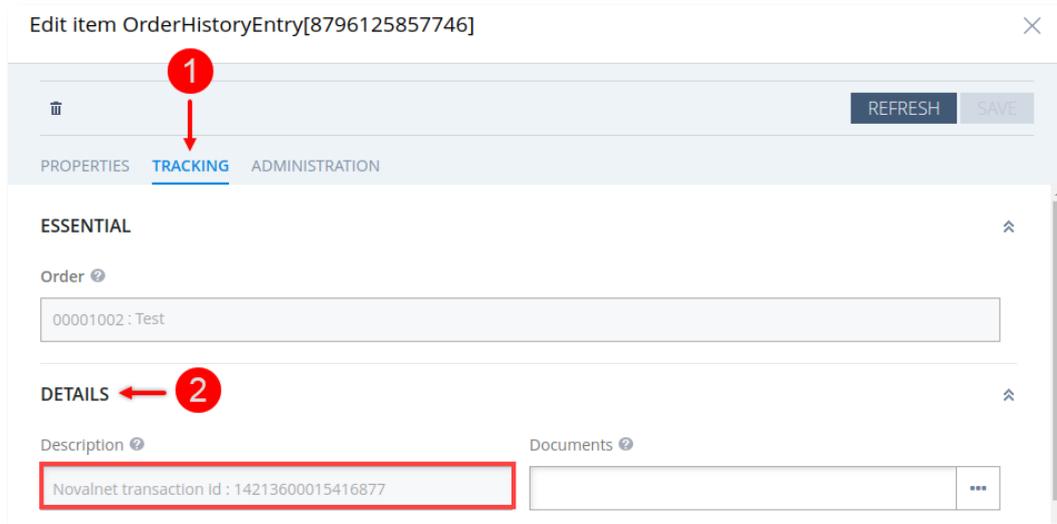


Figure 33

5 UNINSTALLATION

To uninstall the Novalnet Payment Module, please follow the steps below.

Step 1: Open the file path: `<Root_Directory>/bin/platform` in your terminal and run the below command to uninstall the Novalnet Payment Module.

```
ant addonuninstall -Daddonnames=novalnetcheckoutaddon -DaddonStorefront.yacceleatorstorefront=yacceleatorstorefront
```

Step 2: To remove novalnetcheckoutaddon file from the shop, open the file path: `<Root_Directory>/config/localextensions.xml` and remove the below code under `</extensions>`.

Search the below line

```
</extensions>
```

Remove the following code above the searched line

```
<extension name="novalnetcheckoutaddon"/>
```

6 TECHNICAL SUPPORT THROUGH NOVALNET

For any questions or further enquiries please contact one of the following departments as per your requirement. Our in-house experts are ready to assist you in case of queries or issues.

For **installation assistance** contact technic@novalnet.de or call +49 89 9230683-19.

For a **merchant account, new payment module or additional payment methods**, please contact sales@novalnet.de or call +49 89 9230683-20.

If you have any recommendations or suggestions for improvement, kindly share your thoughts with us to develop our payment modules further to technic@novalnet.de or call us at +49 89 9230683-19.

For our License details see for [Freeware License Agreement](#).