Novalnet Installation Guide for SAP Commerce Cloud

Released on: 02.02.2021

Supported version: 1905

Version	Date	Remarks
1.0.0	02.02.2021	**New release** - Payment module implemented with seamless payment experience, including one-click payments and multi-store features of SAP Commerce Cloud

TABLE OF CONTENTS

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

To get started:

1. Log in to the Novalnet Admin Portal with your merchant account details (user credentials).
2. Log in to your SAP Commerce Cloud 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.

Module compatibility details:

```
SAP
1905
```

1.1 Module Installation

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

Step 1: Upload the contents of the folder **NovalnetGateway** (which you have extracted from the payment module package/zip file) into your gitlab directory **${HYBRIS_BIN_DIR} → Custom**.

Step 2: To add the Novalnet payment module, in the **manifest.json** file in your root directory of SAP Commerce Cloud, include the below code within **storefrontAddons** section.

```
{
"addon":"novalnetcheckoutaddon",
"storefront":"yacceleratorstorefront",
"template":"yacceleratorstorefront"
}
```

Step 3: To add Novalnet extensions in the shop, open
<Root_Directory>/hybris/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 name='novalnetcore' />

<extension name='novalnetcheckoutaddon' />

<extension name='novalnetbackoffice' />
```

Step 4: Navigate to **Repository → Repository URL,** provide your SAP Commerce Cloud Git repository URL and click **Save** to confirm the changes.
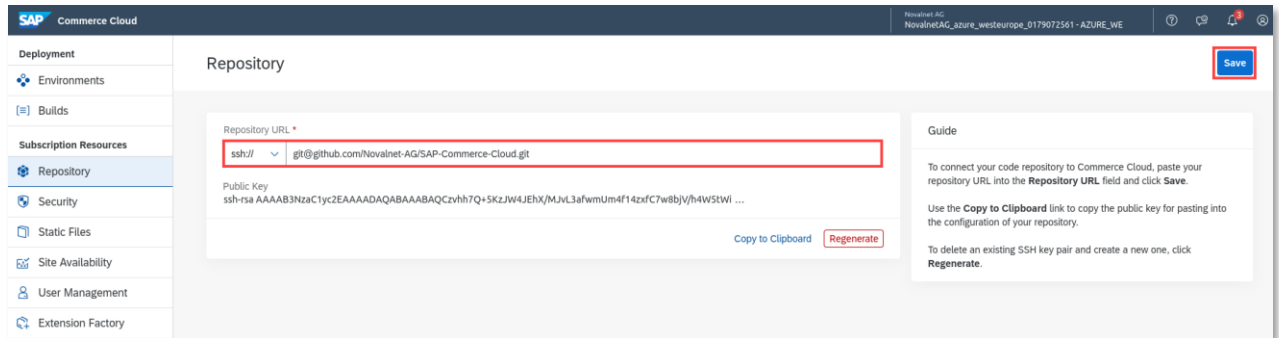

Figure 1

Step 5: Then generate a new public key by clicking the **Regenerate** link and use the **Copy to Clipboard** link to copy the public key for pasting it into the configuration of your repository.
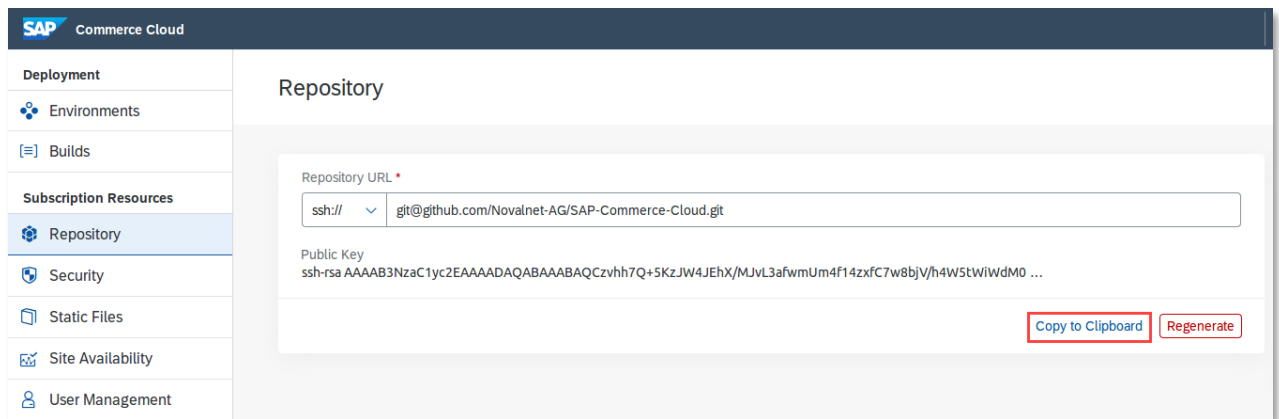

Figure 2

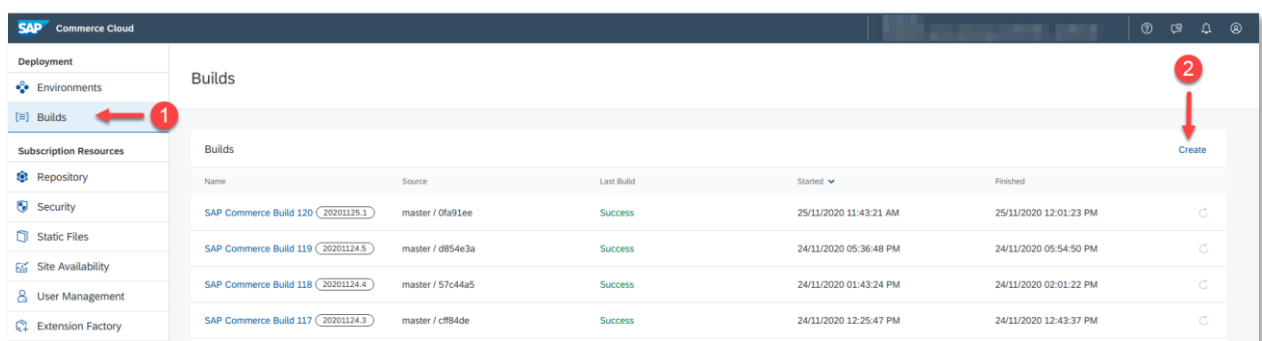**Step 6:** Now, navigate to **Builds → Create Build** in the SAP Cloud portal as shown below

Figure 3

Provide the **Name** and **Git Branch or Tag** details in the fields and click **Save** to create the build.

After the build is created, click **Deploy to Environment** under **Builds** as shown below

In the **Deploy Build** page, choose **Initialize Database** under Data migration mode. Finally, click **Deploy** to complete the installation as shown below

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Tax id: DE254954139

Board of Directors: Gabriel Dixon (CEO), Johnson Rajdaniel (CFO)
Chairman of the supervisory Board: Frank Haussmann
Commercial register number: HRB 167381

1.2 Global Configuration in the SAP Commerce Cloud 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:

ⓘ **Product activation key** – a unique token for merchant authentication and payment processing.

ⓘ **Payment access key** – your secret key used to encrypt the data to avoid user manipulation and fraud.

ⓘ **Tariff ID** – a unique identifier created based on the tariff type at Novalnet.

ⓘ **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.
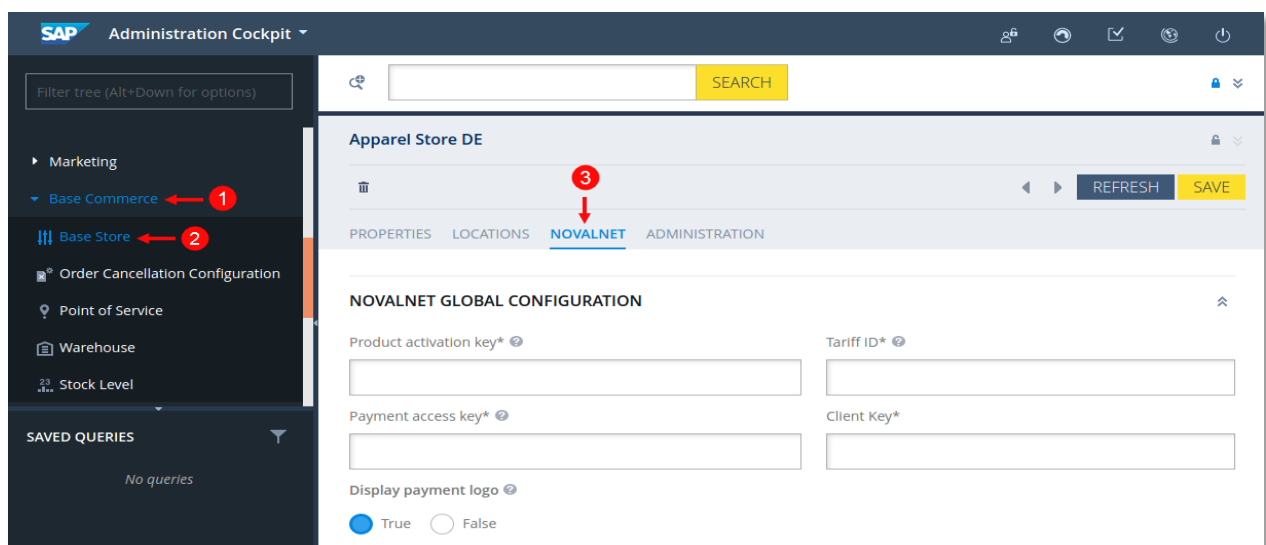
Figure 7

To get your **Product activation key**, **Tariff ID**, **Payment access key** and **Client key**, go to the Novalnet Admin Portal, navigate to **PROJECT** menu and choose your project as shown below
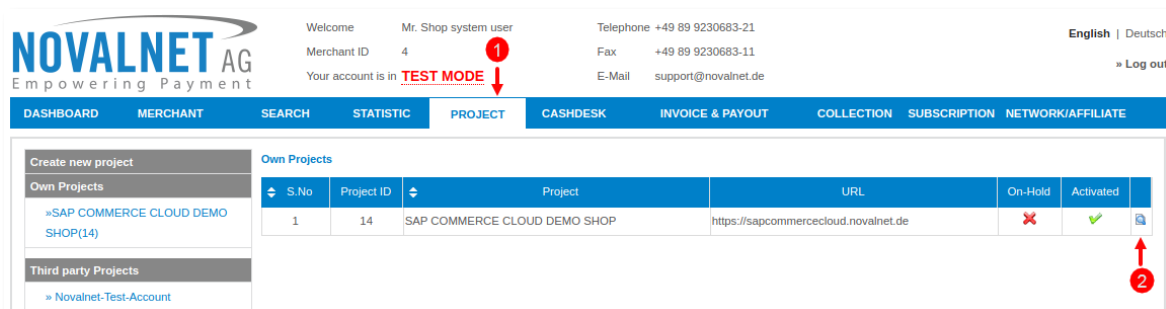
Figure 8

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

Figure 9

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

Figure 10

1.2.1   Notification/Webhook URL Configuration in the SAP Commerce Cloud 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, navigate to **Environments** ➔ <environment name> ➔ **Services** ➔ **Storefront** ➔ choose **Properties** tab. Add the Novalnet webhook URL **csrf.allowed.url.patterns=(/novalnet/callback)$** in the properties field.

csrf.allowed.url.patterns=(/novalnet/callback)$

Finally, click **Save** to update/save the properties.
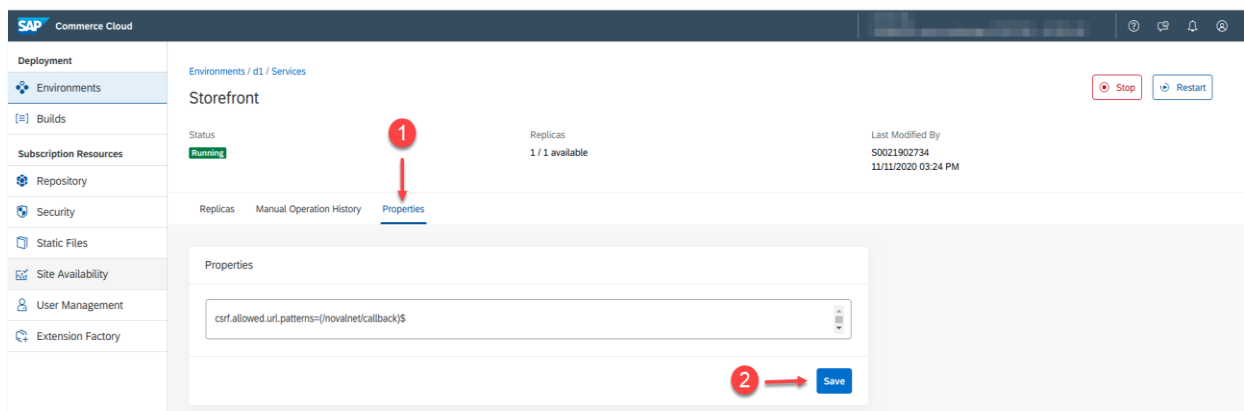
Figure 11

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 in the Novalnet Admin Portal, navigate to **PROJECT** menu and choose your project as shown in Figure 8.

2. Go to **Project Overview** and click **Edit Project Overview** as shown below

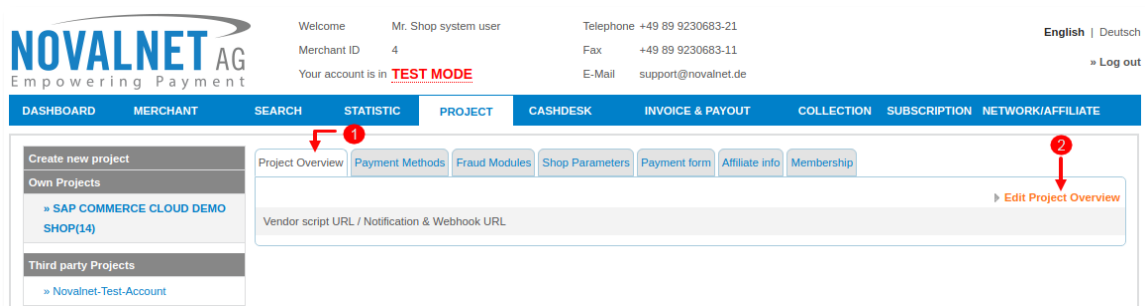Figure 12

3. Then paste the copied Webhook Endpoint URL into the Vendor script URL/ Notification & Webhook URL and click **Update**.

Figure 13

👉 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**. You can configure multiple domain URLs under a single client key. 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.

Step 1: Go to the Novalnet Admin Portal.

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

Figure 14

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

Figure 15

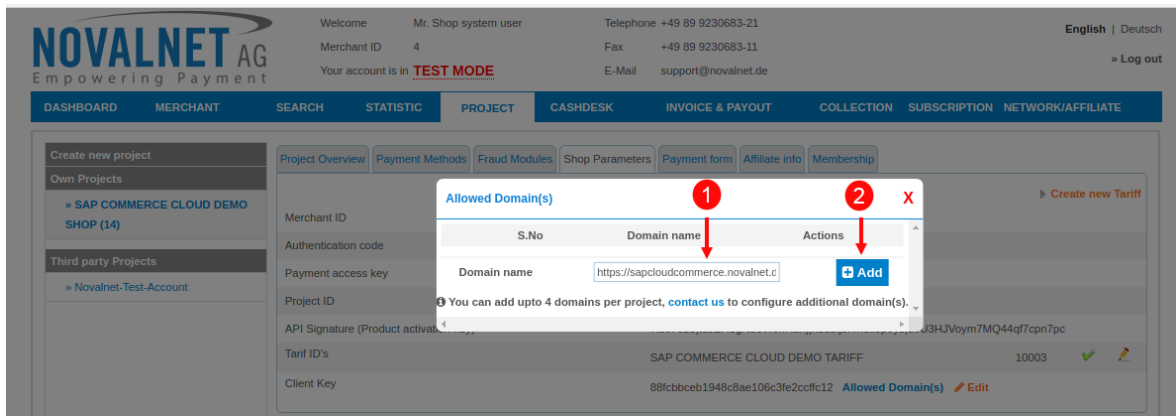**Step 4:** Paste your website URL in the **Domain name** field and click **+ Add** as shown below

Figure 16

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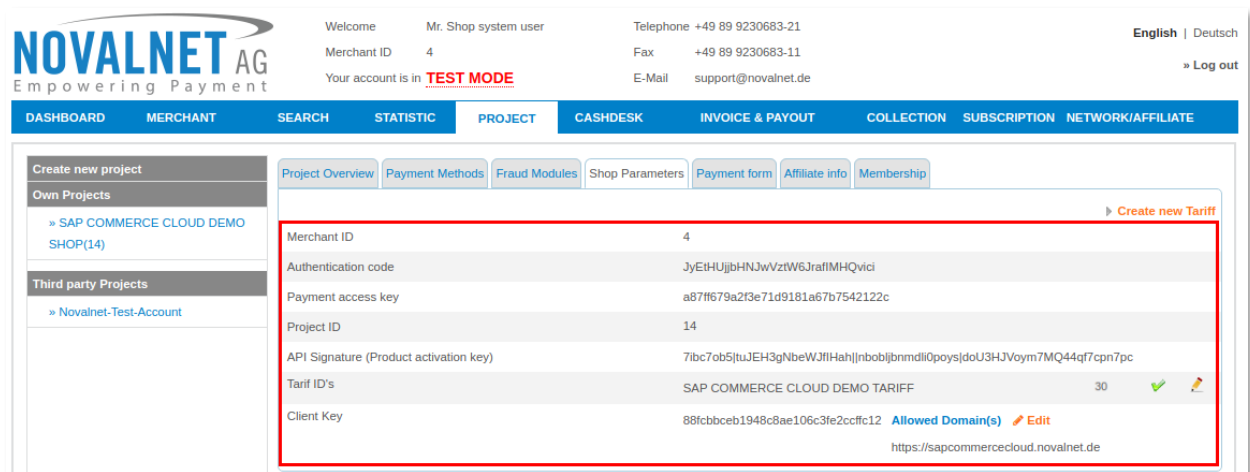

Figure 17

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 8. Navigate to **Payment Methods** and click **Edit Payment Methods** in the top right corner as shown below

Figure 18

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

Figure 19

ℹ Configure PayPal API details in <u>**Novalnet Admin Portal**</u> to use PayPal payment method. Click **PROJECT** → **Payment Methods** → **PayPal** and update the required settings.

Figure 20

NOVALNET AG   Tel.: +49 89 9230683-19   Board of Directors: Gabriel Dixon (CEO), Johnson Rajdaniel (CFO)
Payment Institution   Fax: +49 89 9230683-11   Chairman of the supervisory Board: Frank Haussmann
Feringastr.4   E-Mail: technic@novalnet.de   Commercial register number: HRB 167381
85774 Unterföhring   Tax id: DE254954139

ⓘ Configure Ep2-Merchant ID details in <u>Novalnet Admin Portal</u> to use PostFinance Card payment method. Click **PROJECT** → **Payment Methods** → **Postfinance card** configuration and update the required settings.
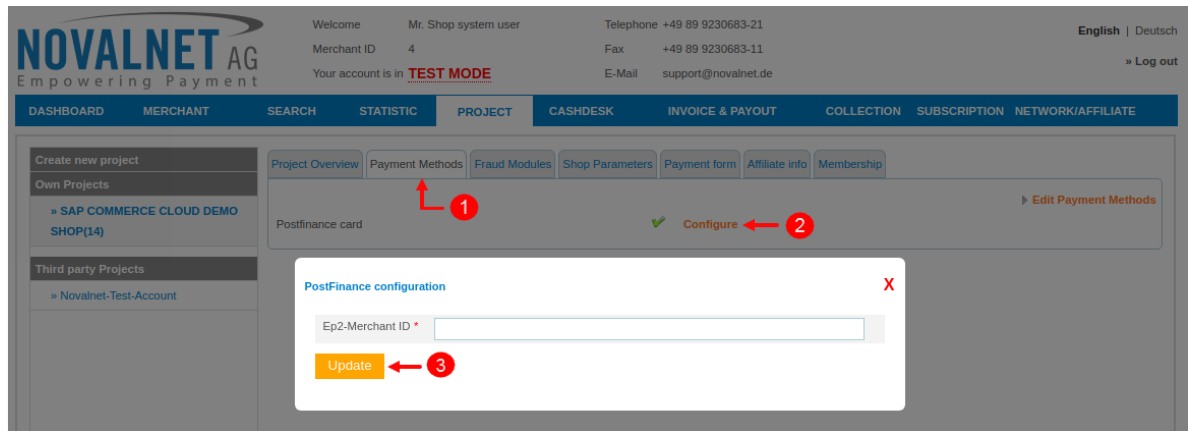
Figure 21

ⓘ Configure Ep2-Merchant ID details in <u>Novalnet Admin Portal</u> to use PostFinance payment method. Click **PROJECT** → **Payment Methods** → **PostFinance** configuration and update the required settings.
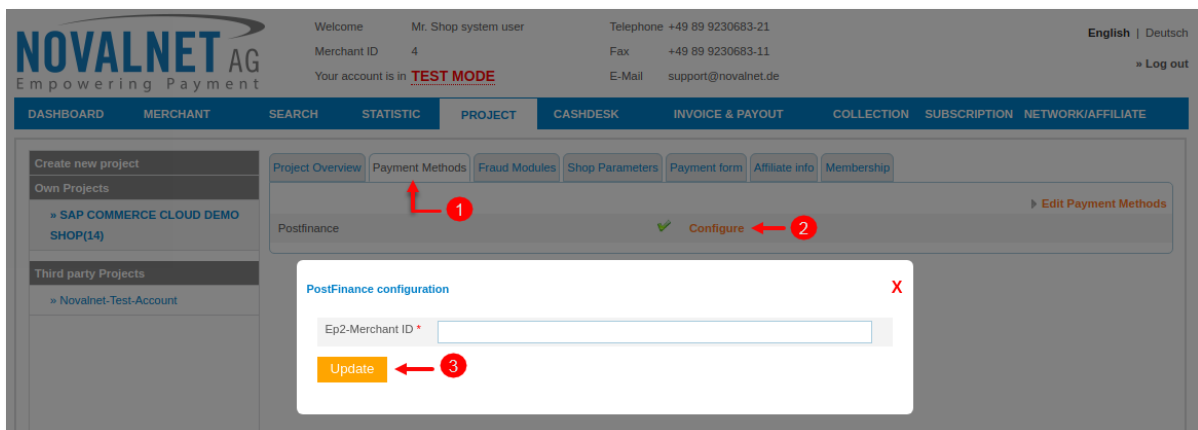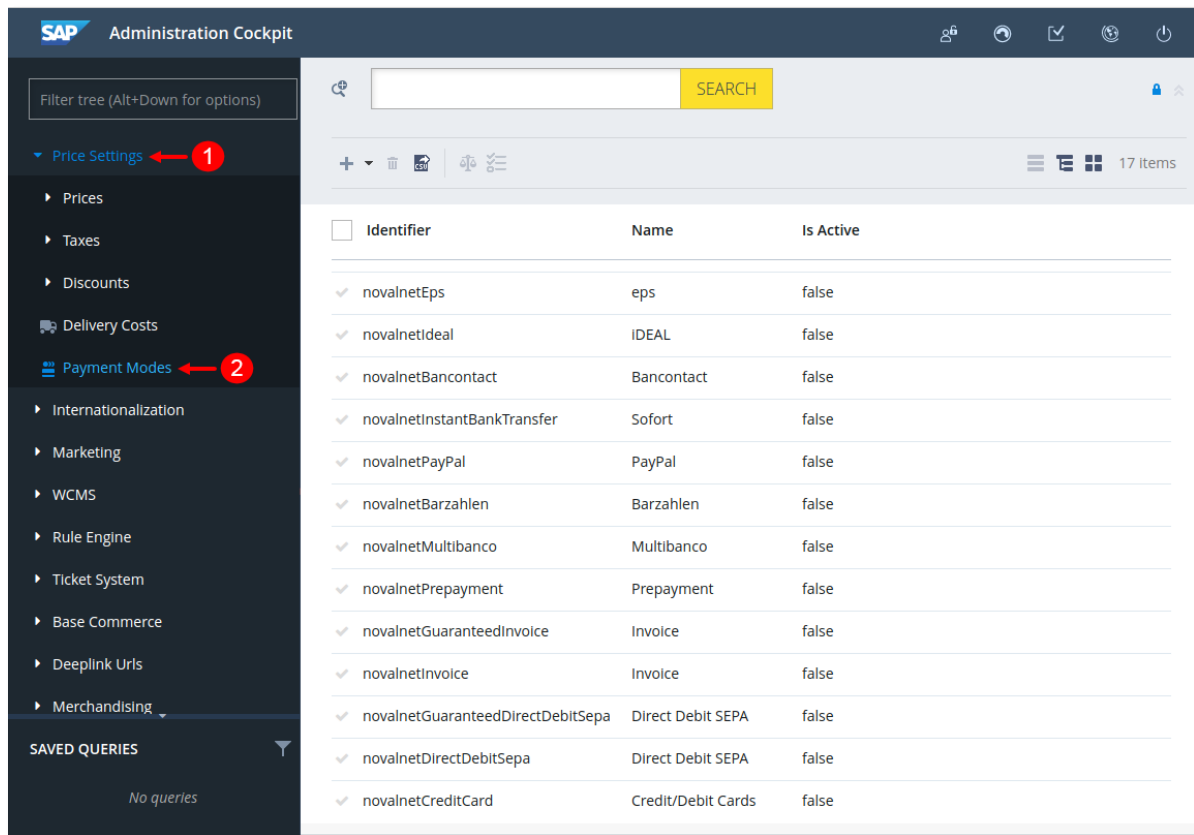
Figure 22

1.4   Payment Configuration in the SAP Commerce Cloud shop system
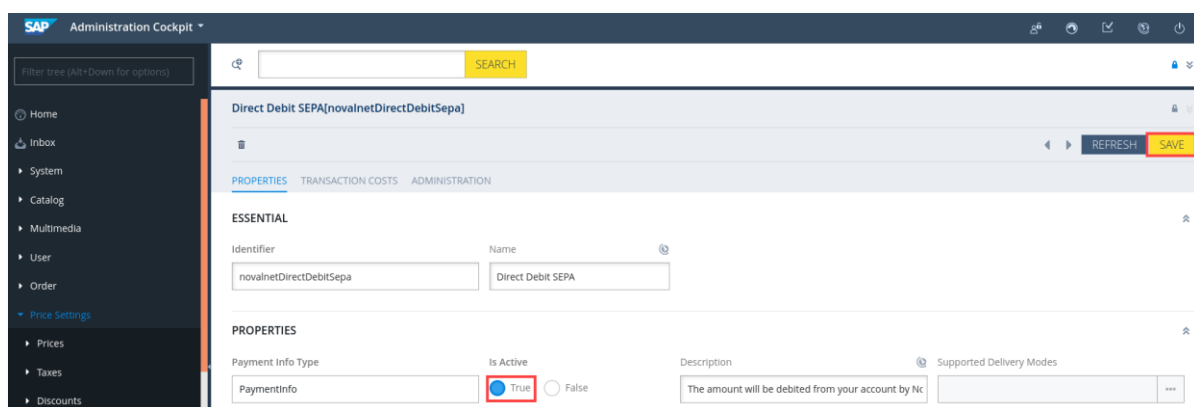
To view the Novalnet payment methods in the shop system, go to **Price Settings → Payment Modes**. Select each payment method, and click the **PROPERTIES** tab.

Figure 23

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 24

Refer chapter 3 ADDITIONAL CONFIGURATION for more payment configurations.

ⓘ 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.

Figure 25

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

Execute orders in LIVE MODE

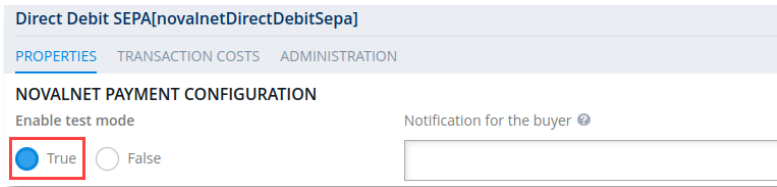To proceed with **LIVE** orders, don't forget to disable the **Enable test mode** option in the individual payment configuration page.

ⓘ 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.
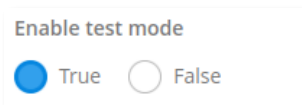
3 ADDITIONAL CONFIGURATION

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 method 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.

Figure 26

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.*

Figure 27

Description

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

Figure 28

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

ⓘ **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.
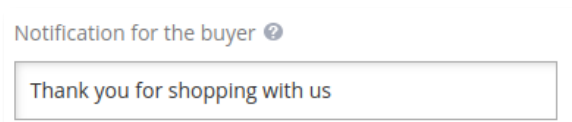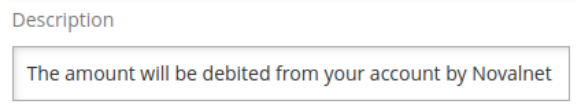

Figure 29

ⓘ **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!

ⓘ **Minimum transaction amount for authorization** - Transactions above this amount will be "**authorized**" only and captured later. Leave the field blank to authorize all transactions.

Figure 30

Payment due date (in days)

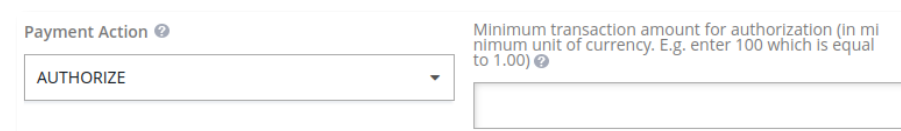**Payment due date (in days)** refers to the duration (number of days) given for buyer to complete the payment. The payment process and duration may differ for each payment method.

☛ *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.*
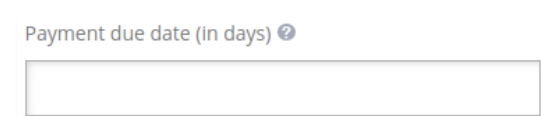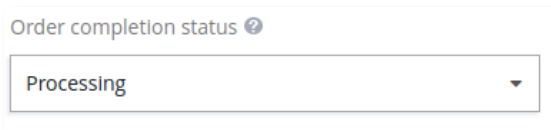

Figure 31

ⓘ 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

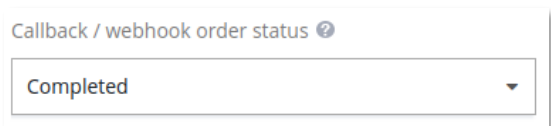Set the status that will be used for completed orders.

Figure 32

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.

Figure 33

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
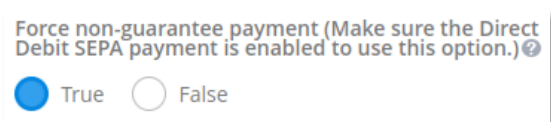
Force Non-Guarantee payment

☛ *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.

Figure 34

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 35

4 ORDER MANAGEMENT

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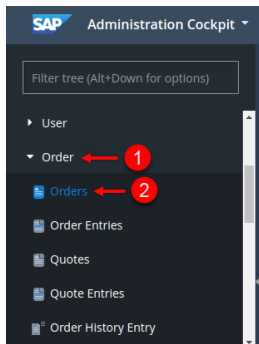

Figure 36

4.1 Transaction Overview

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

Figure 37

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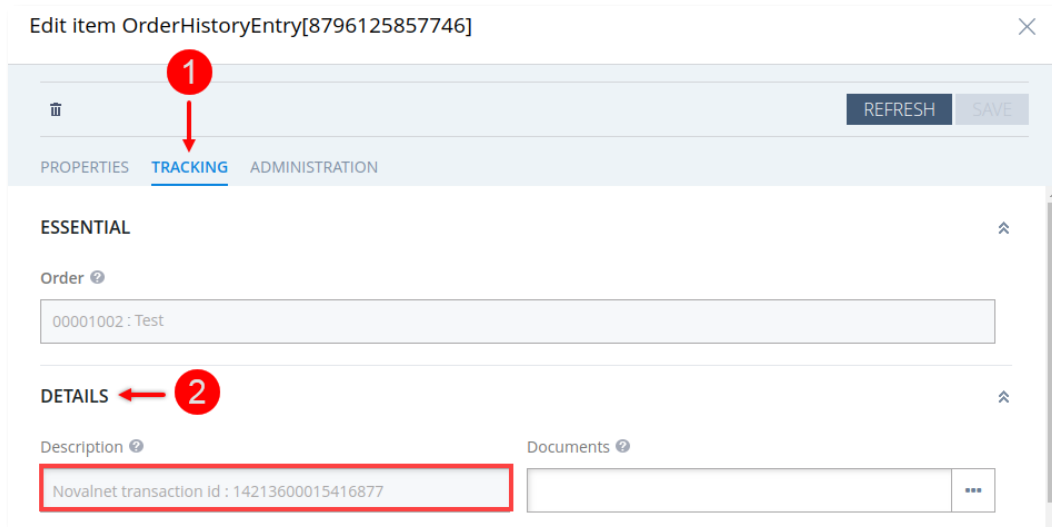

Figure 38

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.yacceleratorstorefront=yacceleratorstorefront
```

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.

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