

VevoPay Integration Guide

for NopCommerce

Revised History

1st edition document for NopCommerce version 1.5 and 1.7

2nd edition document for NopCommerce version 1.8

Introduction

We received request from customer to contribution about using NopCommerce which is open source storefront application with VevoPay. It needs to understand NopCommerce's payment process before because NopCommerece communicate with payment gateways directly. If we want to use VevoPay as payment module for it, it needs to modify source code or add code in payment process section. This paper explains how to adjust NopCommerece to cooperate with VevoPay.

Source Code Modification

It's not hard to add new payment gateway for NopCommerce if you truly understand payment source code structure. It needs little modification when adding the new payment method what is connected with VevoPay. You can complete it by just recognize source code pattern of Nop's payment method.

It can add new payment method by following these steps:

1) Add new payment template

Payment systems of NopCommerce separate each payment method. It needs to add new payment template when you want to add new payment method. For VevoPay's payment method, it's not complex. Just add IFrame into template page and send GET parameter to VevoPay by its format.

All payment templates are in "NopCommerceStore\Template\Payment" folder. Just add new folder and add new template into it.

2) Add new payment configuration

New payment configuration page is must added into administrator section. Because each payment gateways have different parameter and need space to record essential parameter. And every payment configurations which are related with VevoPay must have VevoPay's URL to be the essential parameter because it must used for XML posting and communication between storefront application and VevoPay.

All payment configuration pages are in “NopCommerceStore\Administrator\Payment” folder. If you want to add new configuration, just add new folder and add new configuration control into it.

3) Add new payment method project

Payment processes what are used in order placing in NopCommerce are separated into project. After finishing template and configuration, we must add new payment process into new payment project.

4) Add VevoPay reference

You must add VevoPay signature reference in all payment method projects after you add all files into the project. The library keeps in the Dependencies folder and name is VevoPaymentSignatureLib.dll.

From the example source code, when you create a new payment process class, you must create from IPaymentMethod interface because it's the standard interface for every payment method. And it should add posting XML process into ProcessPaymentMethod (or ProcessRecurringPayment for recurring payment process).

Notice: PaymentInfo object what is used in payment process method is generic object in NopCommerce payment process. We use this object for holding information but some property didn't hold matching data.

Example source code

We developed the example source code to show that VevoPay can work with NopCommerce. It shows how to use Authorize.NET and PayPal Pro as payment gateway which transfer data pass thought VevoPay.

Authorize.NET

Authorize.NET is payment gateway which is supported by NopCommerece already. But it communicates with storefront directly. Therefore, when we want to place order and do transaction via VevoPay, it needs to add new payment method into NopCommerce by following steps.

PayPal Pro

Implementation of VevoPay's PayPal Pro payment method for NopCommerce resembles Authorize.NET but it can process recurring payment. Therefore, ProcessRecurringPayment method in payment project must add, while Authorize.NET will disable this method because it's not support recurring payment feature.

Notice: Country property of shipping address in NopCommerce use country name to hold country data (e.g. United States or United Kingdom). But VevoPay needs country code (e.g. US or UK) when passing parameter via IFrame.

If customer select “SelectOther” and enter country name, payment will be failed. Customer should select country from dropdown list or input country code when choose “SelectOther”.

Lastname	<input type="text" value="Smith"/>
Country	<input type="text" value="SelectOther"/> <input type="button" value="v"/> <input type="text" value="US"/> <input type="button" value="x"/>
State	<input type="text" value="New York"/>