



Magento 2 plugin features manual

Version 1.2.1 | 22nd of July 2021



A

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Version #	Author	Changes	Date
1.0	Bogdan Bondane	Initial Document Creation	09/05/2018
1.1	Aidan Wilkins	Added Installation and Setup	23/07/2018
1.2	Bogdan Bondane	ApplePay configuration Create order flow description	30/06/2021
1.2.1	Bogdan Bondane	Screenshots update ApplePay known issues	22/07/2021

1

Overview

This document explains and shows how to install, configure and use the features in the Magento 2 payment plugin integrated with the Nuvei Payment Gateway.

2

Installation and Setup

The plug-in can be downloaded from:

<https://helpdesk.nuvei.com/doku.php?id=developer:plugins:magento>

Follow the instructions inside the plugin_root_folder/module-payment/README.md

Your terminal Shared Secret can be set from within the Terminal Settings in the Selfcare system.

nuvei

15154002 (USD) ProductionTest

- Virtual Terminal
- Invoice Payment Request
- Customers
- Reporting
- Settings
- Payment Pages
- Users
- Terminal**
- Cards
- Custom Fields
- eMail Alerts
- SMS Alerts
- Receipt
- Apple Pay Certificate
- Google Pay EC Key Pair
- Enhanced Data Templates
- BIN Ranges
- Contact Support
- Expand All
- Logout

Filter options here:

General Setup

- Show CVV
- Auto Decline CVV Failures
- Show Issue No.
- Enable AVS
- AVS Compulsory

API AVS Type
Exact

If AVS sent
Editable

- Auto Ready

Auto Ready Limit
0

- Enable Automatic Settle

Batch Time (GMT-05:00)
19:54

Notification Email

Notification Language
--Please Select Language--

Receipt Page URL

MPI Receipt URL

Secure Card URL

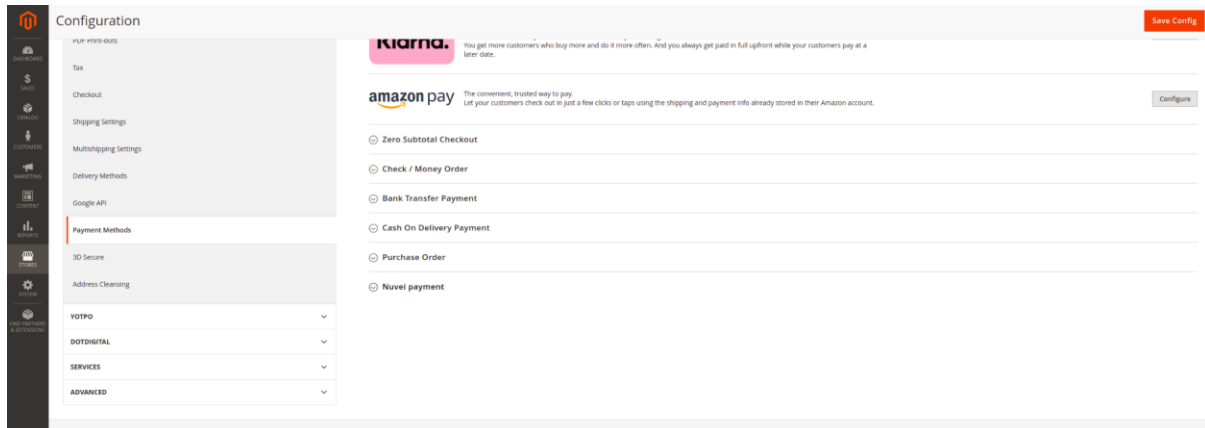
Subscription Receipt URL

Subscription Notification URL

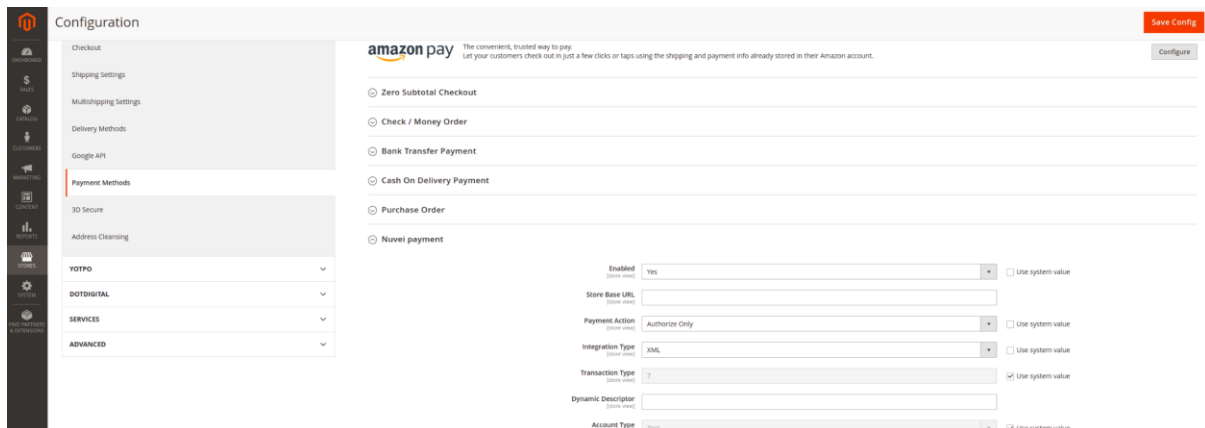
Secret

Confirm Secret

Log into Magento and select STORES from the menu on the left, then Configuration, Sales and Payment Methods. You should see Nuvei payment under the Other Payment Methods menu.



Unselect the Use system value checkbox for Enabled and set the value to Yes.



The Primary Currency, Primary Terminal ID and Primary Shared Secret should be completed in order to process any test transactions. You can then select Save Config.

When testing is complete, change the Account Type from Test to Live and update the Terminal ID and Shared Secret.

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AVS & CVV

Both options can be enabled from the Selfcare system, by accessing Settings→Terminal as shown below. These options will be shared with the plugin through the terminal features functionality and proper behavior will take place.

The screenshot shows the 'General Setup' configuration page for AVS & CVV. On the left is a navigation menu with the following items: Reporting, Settings, Payment Pages, Users, Terminal (highlighted), Cards, Custom Fields, eMail Alerts, SMS Alerts, Receipt, Apple Pay Certificate, Google Pay EC Key Pair, Enhanced Data Templates, and BIN Ranges. The main content area is titled 'General Setup' and contains the following settings:

- Show CVV
- Auto Decline CVV Failures
- Show Issue No.
- Enable AVS
- AVS Compulsory
- API AVS Type:
- If AVS sent:
- Auto Ready
- Auto Ready Limit:
- Enable Automatic Settle

4

Refund & Void transaction

This is managed from Magento's Sales→Orders menu. Once an order is selected, the Invoices submenu will appear as shown below.

The screenshot shows the Magento Admin interface for order #000000055. The left sidebar contains navigation menus for Dashboard, Sales, Products, Customers, Marketing, Content, Reports, Stores, System, and Find Partners & Extensions. The main content area is titled 'ORDER VIEW' and includes a search bar, filters, and a table of invoices. The table has the following data:

	Invoice	Invoice Date	Order #	Order Date	Bill-to Name	Status	Amount	Action
<input type="checkbox"/>	000000014	Apr 23, 2018 3:11:49 PM	000000055	Apr 23, 2018 3:11:45 PM	Veronica Costello	Paid	\$25.57	View

By clicking the View link, the Credit Memo option will appear in the top menu that will take you to the refund form. If the amount refunded is equivalent to the order's total, the gateway will void the transaction.

- DASHBOARD
- SALES
- PRODUCTS
- CUSTOMERS
- MARKETING
- CONTENT
- REPORTS
- STORES
- SYSTEM
- FIND PARTNERS & EXTENSIONS

#00000014

🔍 🔔 3 👤 admin ▾

[← Back](#) [Send Email](#) [Credit Memo](#) [Print](#)

Order & Account Information

Order # 00000055 (The order confirmation email was sent)

Account Information

Order Date	Apr 23, 2018, 3:11:45 PM
Order Status	Processing
Purchased From	Main Website Main Website Store Default Store View
Placed from IP	83.40.223.122

Customer Name	Veronica Costello
Email	ronl_cost@example.com
Customer Group	General

Address Information

Billing Address [Edit](#)

Shipping Address [Edit](#)

- DASHBOARD
- SALES
- PRODUCTS
- CUSTOMERS
- MARKETING
- CONTENT
- REPORTS
- STORES
- SYSTEM
- FIND PARTNERS & EXTENSIONS

Product	Price	Qty	Return to Stock	Qty to Refund	Subtotal	Tax Amount	Discount Amount	Row Total
Go-Get'r Pushup Grips SKU: 24-UG05	\$19.00	Ordered 1 Invoiced 1	<input type="checkbox"/>	<input type="text" value="1"/>	\$19.00	\$1.57	\$0.00	\$20.57

[Update Qty's](#)

Order Total

Credit Memo Comments

Comment Text

Refund Totals

Subtotal	\$19.00
Refund Shipping	<input type="text" value="5"/>
Adjustment Refund	<input type="text" value="0"/>
Adjustment Fee	<input type="text" value="0"/>
Tax	\$1.57
Grand Total	\$25.57

- Append Comments
- Email Copy of Credit Memo

Refund Offline
 Refund

5

Custom Fields

The Custom Fields can be managed through the Settings→Custom Fields menu. As explained in the Knowledge Database, there are 3 different data types that can be used (String, Numeric or Boolean). If the Payment Page option is checked, the field will show and gather information from the customer. If the Show on Receipt option is selected as well, the information will be added to the gateway's receipt.

Name:	Type:	Display Order:	Mandatory
Test01	String	1	N

nuvei

15154001 (USD) Custom Fields

Virtual Terminal
Invoice Payment Request
Customers
Reporting
Settings
Payment Pages
Users
Terminal
Cards
Custom Fields
eMail Alerts
SMS Alerts
Receipt
Apple Pay Certificate
Google Pay EC Key Pair
BIN Ranges
Contact Support
Expand All
Logout

Custom Fields Settings

General Setup

Name: *

Mandatory

Type: * String

Size * 1

Display Order: * Please choose... Mandatory Field

Labels

Language: * English

Label: *

ADD

Display Sections

Enable Virtual Terminal
 Enable Payment Page
 Enable Bulk Payment
 Enable Subscription
 Enable Receipt

6

Threatmetrix

If a merchant wants to enable ThreatMetrix, a gateway admin user is required to enable it and set it up via the Terminal's Security and Fraud Settings.

Admin → Merchants → Merchant → Processing Terminal → Security and Fraud

The screenshot shows the 'Security & Fraud' settings page for a terminal. On the left is a sidebar menu with categories: Bank Settings, Terminal Location & Phone, Features, Terminal Limits, Security & Fraud (highlighted), Integration, Receipts & Notification, Pricing, ACH Processing, Cards, UnionPay Processing, Gateway Settings, Email Alerts, SMS Alerts, and Terminal Devices. The main content area contains the following settings:

- Show CVV
- Enable AVS
- Refund Amount Limit, %*
- Allow Unreferenced Refunds
- Allow 3DS
- Allow Voice ID
- Auth Id
- Auth Password
- Use Max Mind
- Use ThreatMetrix
- Organization ID*
- API Key*
- Policy Name
- Reject Errors
- Risk Score Threshold

At the bottom right of the form is a green 'SAVE' button. A 'Filter fields' dropdown is located in the top right corner of the settings area.

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Multicurrency

A multicurrency terminal allows the merchant to process payments in all supported currencies. However, the plugin must use one of the available currencies.

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ApplePay

The following steps explain how to generate the ApplePay certificates necessary to process payments. For this, you will need an apple developer account.

1. Login to your apple developer account and create a new Merchant ID

Apple Developer

Certificates, Identifiers & Profiles

[< All Identifiers](#)

Register a new identifier Continue

- App IDs**
Register an App ID to enable your app, app extensions, or App Clip to access available services and identify your app in a provisioning profile. You can enable app services when you create an App ID or modify these settings later.
- Services IDs**
For each website that uses Sign in with Apple, register a services identifier (Services ID), configure your domain and return URL, and create an associated private key.
- Pass Type IDs**
Register a pass type identifier (Pass Type ID) for each kind of pass you create (i.e. gift cards). Registering your Pass Type IDs lets you generate Apple-issued certificates which are used to digitally sign and send updates to your passes, and allow your passes to be recognized by Wallet.
- Website Push IDs**
Register a Website Push Identifier (Website Push ID). Registering your Website Push IDs lets you generate Apple-issued certificates which are used to digitally sign and send push notifications from your website to macOS.
- iCloud Containers**
Registering your iCloud Container lets you use the iCloud Storage APIs to enable your apps to store data and documents in iCloud, keeping your apps up to date automatically.
- App Groups**
Registering your App Group allows access to group containers that are shared among multiple related apps, and allows certain additional interprocess communication between the apps.
- Merchant IDs**
Register your Merchant Identifiers (Merchant IDs) to enable your apps to process transactions for physical goods and services to be used outside of your apps. Generate an Apple Pay Payment Processing certificate for each registered Merchant ID to validate transactions initiated within your app.
- Media IDs**
Register a media identifier (Media ID) for each app that uses the Apple Music API or ShazamKit. Then

2. Add a new domain and follow the steps to validate it

The screenshot shows a merchant dashboard interface. At the top, there are two input fields: 'name' containing 'Test Merchant' and 'merchant' containing 'merchant.com.testdomain'. Below these fields is a warning message: 'You cannot use special characters such as @, &, *, ', ", -, .'. The main content area is divided into three sections:

- Apple Pay Payment Processing Certificate**: A section explaining that to configure Apple Pay Payment Processing, a Payment Processing Certificate must be created. It includes a 'Create Certificate' button.
- Apple Pay Payment Processing on the Web**: A section explaining that to configure Apple Pay Payment Processing on the web, the merchant must register and verify domains. It includes a warning about Apple Pay terms and conditions and an 'Add Domain' button.
- Merchant Domains**: A section with the instruction 'Add a domain for use with this Merchant ID.' and an 'Add Domain' button.

At the bottom of the dashboard, there is a footer with the text: 'Copyright © 2021 Apple Inc. All rights reserved. | [Terms of Use](#) | [Privacy Policy](#)'.

3. Log in to the gateway's Selfcare area and generate a new Apple Pay Certificate from the Selfcare > Settings > Apple Pay Certificate form

Apple Pay Certificate

In order to create an Apple Pay Certificate you need to generate a CSR file. Fill in the fields below then click Generate CSR.

E-Mail Address (E) *

Common Name (CN) *

Algorithm

CREATE .CSR

4. Download the generated CSR file and create a new Apple Pay Payment Processing Certificate

Apple Pay Certificate

1. Download the CSR file by clicking the button below.
DOWNLOAD .CSR
2. Upload the CSR to Apple to get the Apple Pay Certificate
 - Log into the Apple Developer Centre and go to member centre, under Certificates, Identifiers & Profile you will find Merchant Id's.
 - Select a merchant ID from the list and click Edit. (Create a new one if it doesn't exists)
 - Click Create Certificate.**APPLE'S DEVELOPER CENTER**
3. Upload the Apple Pay Certificate file to complete the Apple Pay configuration.
CHOOSE FILE

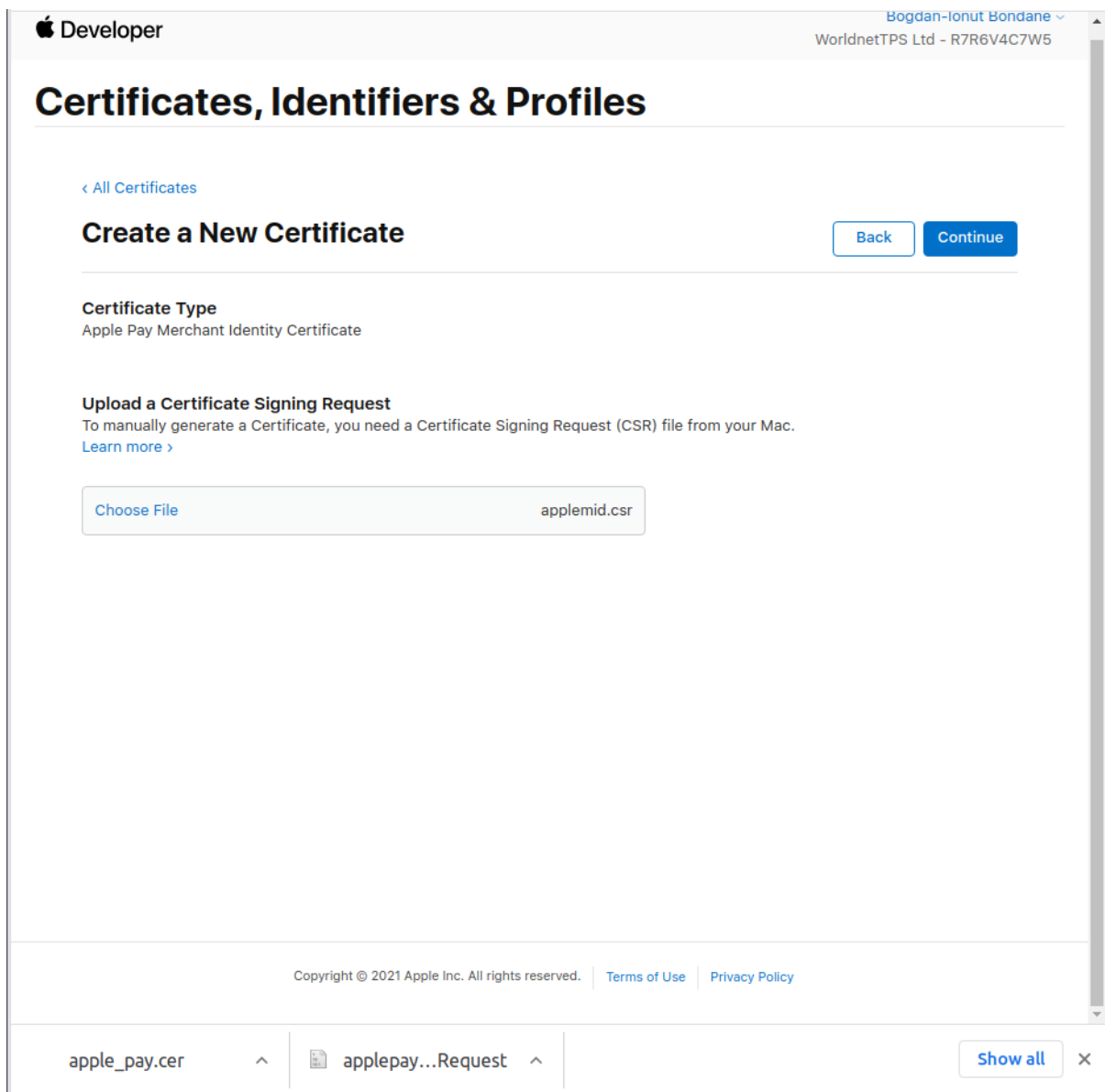
CLEAR **SAVE**

5. Download the newly created Apple Pay Payment Processing Certificate and upload it in your Selfcare > Settings > Apple Pay Certificate form

The screenshot shows the Nuvei Selfcare interface. On the left is a navigation menu with the following items: Dashboard, Virtual Terminal, Pay by Link, Bulk Payments, Customers, Reporting, Billing, Settings, BIN Ranges, Contact Support, Expand All, and Logout. The 'Settings' menu item is expanded. The main content area is titled 'Apple Pay Certificate' and contains the following text: 'This certificate is used for processing the Apple Pay Transaction', 'IdentityApple Pay Payment Processing:merchant.com.testdomain', 'Verified ByApple Worldwide Developer Relations CA - G2', and 'Expires30-07-2023'. Below this text are two buttons: 'CLEAR' and 'DOWNLOAD CERTIFICATE'. At the bottom of the interface, there is a file manager showing two files: 'apple_pay.cer' and 'applepay...Request'. A 'Show all' button with a close icon is also present.

6. Apple Pay Merchant Identity Certificate generation has to be done from the command line interface as follows

1. Generate *applemid.key* and *applemid.csr* using the following command:
openssl req -sha256 -nodes -newkey rsa:2048 -keyout applemid.key -out applemid.csr
2. Upload this *applemid.csr* file to your apple developer account



3. Download the generated *merchant_id.cer*

Apple Developer Bogdan-Ionut Bondane
WorldnetTPS Ltd - R7R6V4C7W5

Certificates, Identifiers & Profiles

< All Certificates

Download Your Certificate

[Revoke](#) [Download](#)

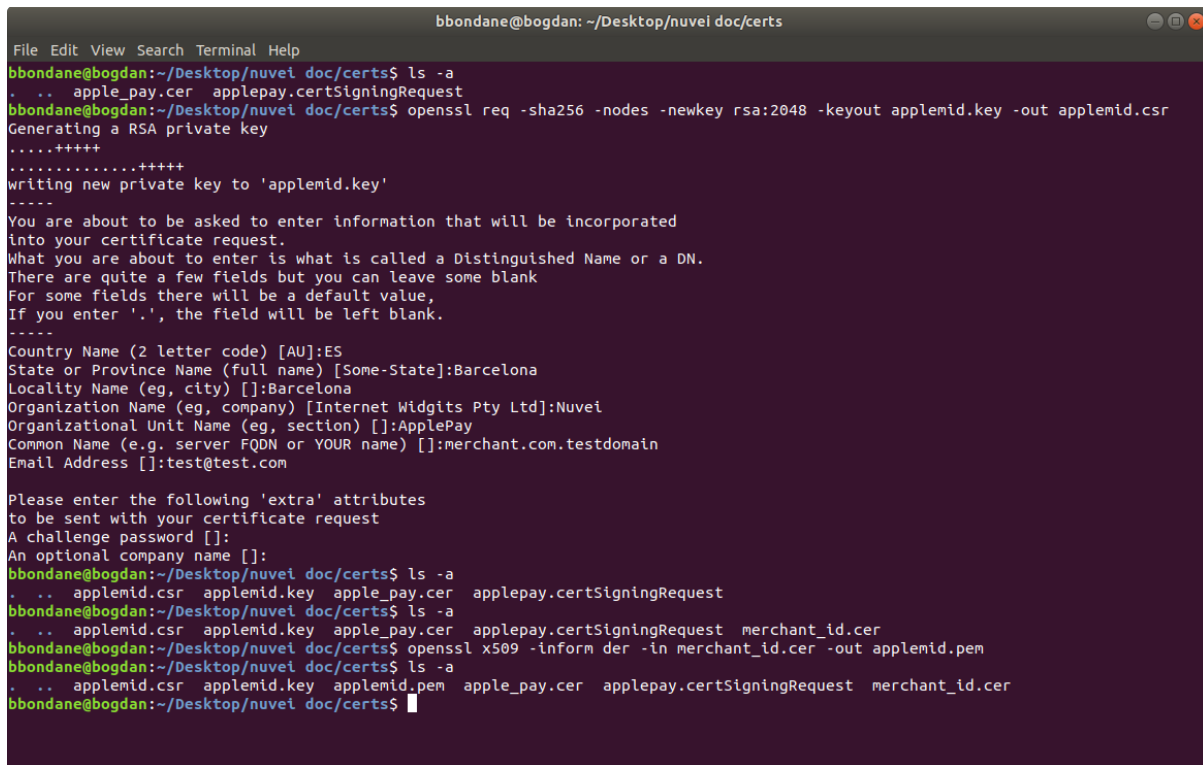
Certificate Details

Certificate Name merchant.com.testdomain	Certificate Type Apple Pay Merchant Identity	Download your certificate to your Mac, then install it in Keychain Access. Make sure to save a public key somewhere secure.
Expiration Date 2023/07/30	Created By Bogdan-Ionut Bondane (bogdan.bondane@worldnettps.com)	

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apple_pay.cer ^ | applepay...Request ^ | [Show all](#) x

4. Generate **.pem* file using the following command:
openssl x509 -inform der -in merchant_id.cer -out applemid.pem



```
bbondane@bogdan: ~/Desktop/nuvei doc/certs
File Edit View Search Terminal Help
bbondane@bogdan:~/Desktop/nuvei doc/certs$ ls -a
. .. apple_pay.cer applepay.certSigningRequest
bbondane@bogdan:~/Desktop/nuvei doc/certs$ openssl req -sha256 -nodes -newkey rsa:2048 -keyout applemid.key -out applemid.csr
Generating a RSA private key
.....+++++
writing new private key to 'applemid.key'
-----
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
-----
Country Name (2 letter code) [AU]:ES
State or Province Name (full name) [Some-State]:Barcelona
Locality Name (eg, city) []:Barcelona
Organization Name (eg, company) [Internet Widgits Pty Ltd]:Nuvei
Organizational Unit Name (eg, section) []:ApplePay
Common Name (e.g. server FQDN or YOUR name) []:merchant.com.testdomain
Email Address []:test@test.com

Please enter the following 'extra' attributes
to be sent with your certificate request
A challenge password []:
An optional company name []:
bbondane@bogdan:~/Desktop/nuvei doc/certs$ ls -a
. .. applemid.csr applemid.key apple_pay.cer applepay.certSigningRequest
bbondane@bogdan:~/Desktop/nuvei doc/certs$ ls -a
. .. applemid.csr applemid.key apple_pay.cer applepay.certSigningRequest merchant_id.cer
bbondane@bogdan:~/Desktop/nuvei doc/certs$ openssl x509 -inform der -in merchant_id.cer -out applemid.pem
bbondane@bogdan:~/Desktop/nuvei doc/certs$ ls -a
. .. applemid.csr applemid.key applemid.pem apple_pay.cer applepay.certSigningRequest merchant_id.cer
bbondane@bogdan:~/Desktop/nuvei doc/certs$
```

The above is an example of the command sequence and what files should be generated/added at each step. The *applemid.key* and *applemid.pem* will be added to the certificates folder as explained in the *README.md* of the Installation chapter.

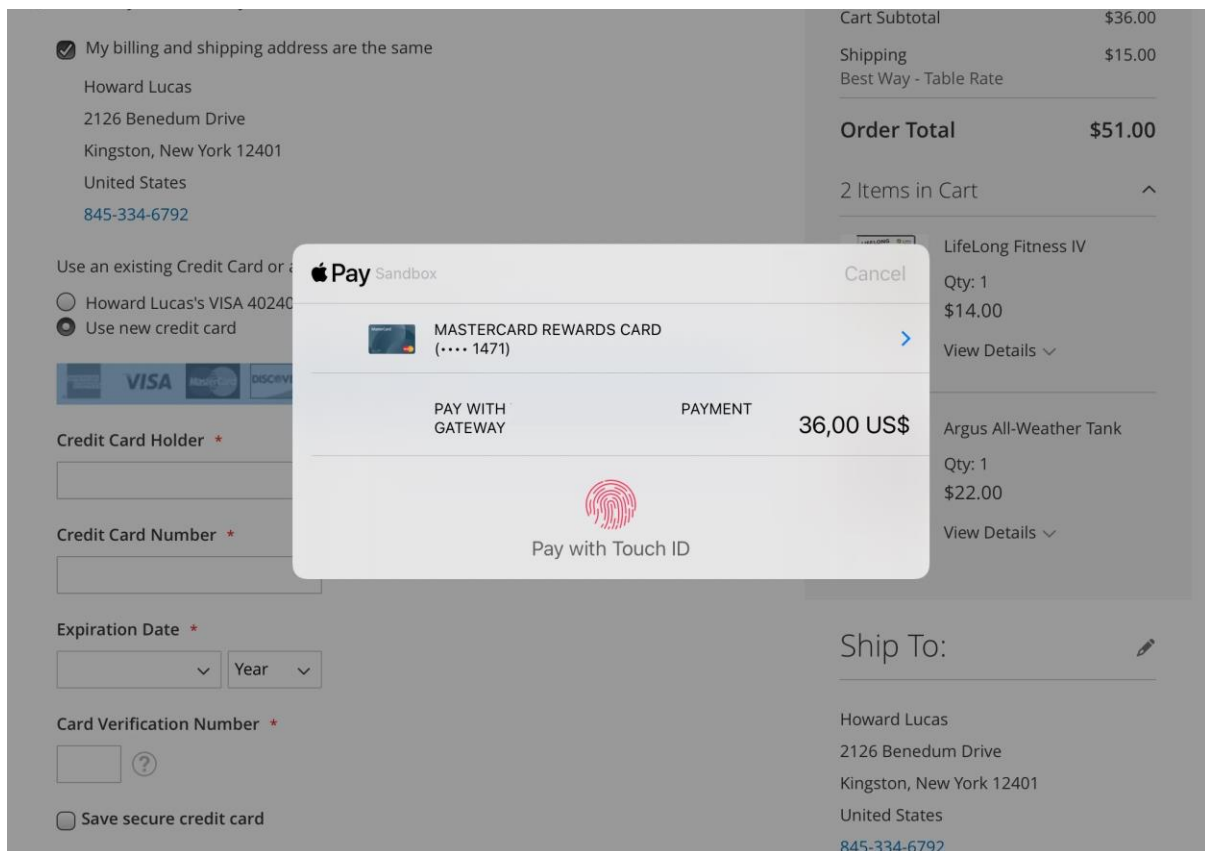
7. One last step is needed to enable ApplePay in your Magento store: ApplePay should be enabled, Merchant Identifier should match the one used on the certificates configuration and the Initiative Context should be the domain where your store is running.

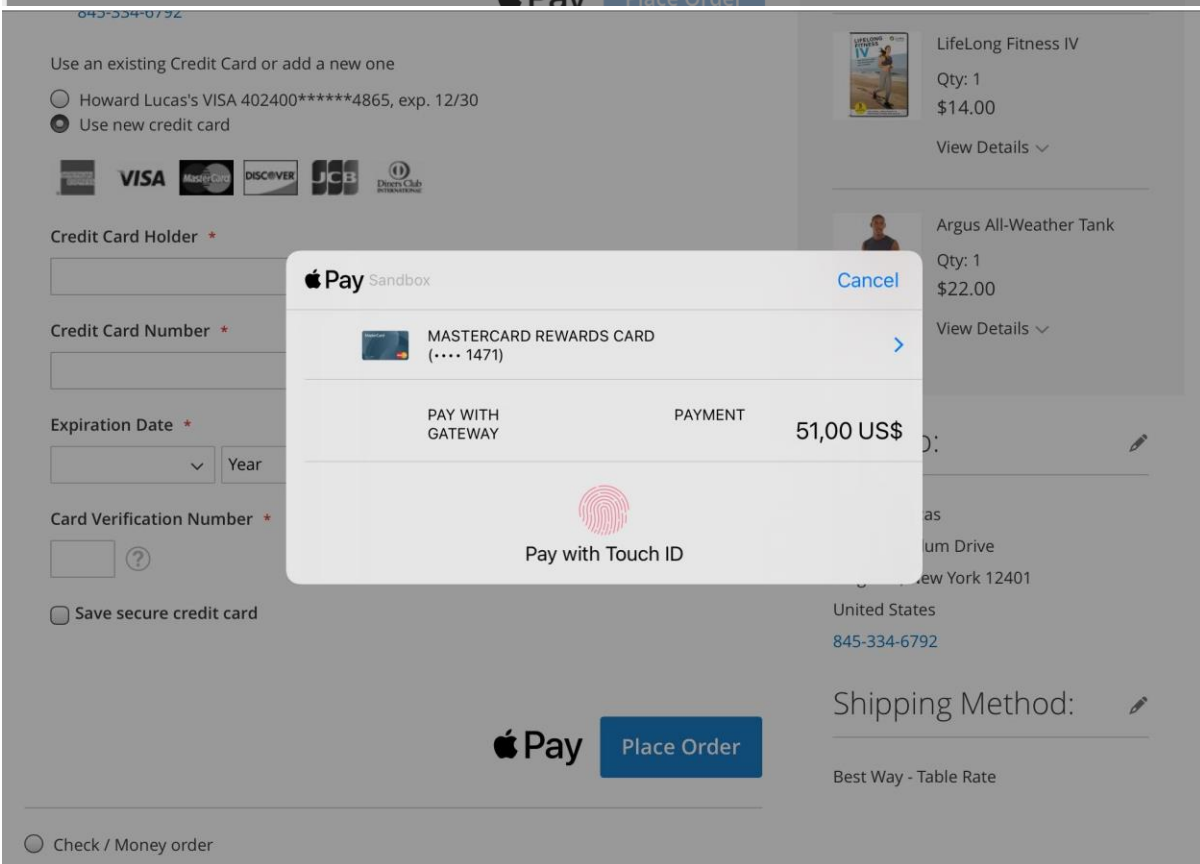
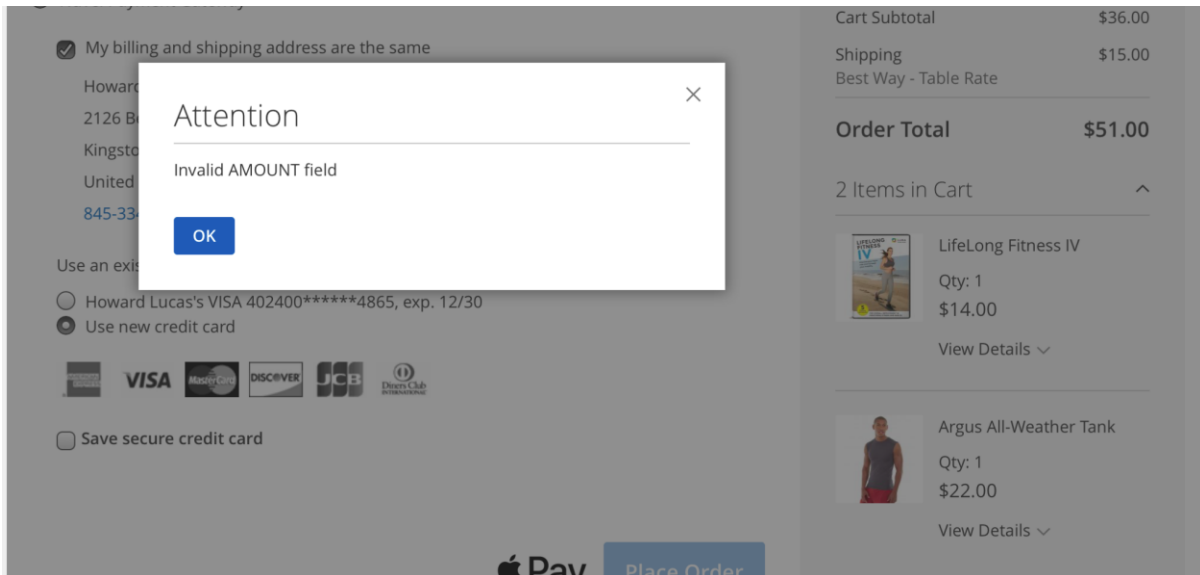
The screenshot shows the Magento Configuration interface. On the left is a vertical sidebar with navigation icons for Dashboard, Sales, Catalog, Customers, Marketing, Content, Reports, Stores, System, and Find Partners & Extensions. The main content area is titled 'Configuration' and features a 'Save Config' button in the top right. A dropdown menu is open, showing a list of countries including Algeria, American Samoa, Andorra, Angola, Anguilla, Antarctica, and Antigua & Barbuda. Below the dropdown are several configuration fields: 'Minimum Order Total' and 'Maximum Order Total' (both with '[store view]' subtext and empty input boxes); 'ApplePay Enabled' (a dropdown menu set to 'Yes' and a checkbox for 'Use system value' which is unchecked); 'Test Merchant Identifier' (input box containing 'merchant.com.testdomain'); 'Test Display Name' (input box containing 'Store Display Name'); and 'Test Initiative Context' (input box containing 'testdomain.com'). At the bottom of the configuration area, there is a footer with 'Copyright © 2021 Magento Commerce Inc. All rights reserved.' and 'Magento ver. 2.4.2' with links for 'Privacy Policy' and 'Report an Issue'. The browser's taskbar at the very bottom shows three tabs: 'merchant_id.cer', 'apple_pay.cer', and 'applepay...Request', with a 'Show all' button on the right.

The following is a known issue for Magento related to the total amounts in the window.checkoutConfig object. More details in the following link

<https://github.com/magento/magento2/issues/6796>

As you can see in the screenshots below, the shipping cost is not always updated and the gateway will return an invalid amount error. Once the user presses the Ok button, a new payment request can be done and, as the amounts will be corrected with the page refresh, the process will go through correctly.





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Create order flow

Starting with v1.1.0 of the payment gateway, the Magento order will be created only if a successful payment takes place. Given this restriction, the Order Id used by the gateway will be generated using the `quote_id` assigned to the user's shopping cart during the checkout process.

A new column will be displayed in the orders table that contains the Unique Ref data which can be used for order tracking.

⚠ Your web server is set up incorrectly and allows unauthorized access to sensitive files. Please contact your hosting provider. System Messages: 1 ▾

Orders

🔍 🔔 👤 admin ▾

Create New Order

⌵ Filters
👁 Default View ▾
⚙ Columns ▾
📄 Export ▾

Actions ▾
98 records found
2 ▾ per page
< 1 of 49 >

	ID	Unique Ref	Purchase Point	Purchase Date	Bill-to Name	Ship-to Name	Grand Total (Base)	Grand Total (Purchased)	Status	Action	Allocated sources	Braintree Transaction Source
<input type="checkbox"/>	00000118	EXOKLM0GWM	Main Website Main Website Store Default Store View	Jun 30, 2021 11:42:45 AM	Veronica Costello		\$15.16	\$15.16	Complete	View		
<input type="checkbox"/>	00000117	C6APW16KOS	Main Website Main Website Store Default Store View	Jun 30, 2021 11:41:55 AM	Veronica Costello		\$15.16	\$15.16	Complete	View		

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