

PAYOO PAYMENT GATEWAY

INTEGRATION MANUAL

Interim approval for development purpose



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1 Integration Overview of Google Pay[™]

1.1 Google Pay[™] on Payoo Payment Gateway

- Google Pay is available on Payoo Payment Gateway, which enables fast, simple checkout on website, and gives customers convenient access to their saved cards to Google Accounts.
- Merchant redirects customers to Payoo Payment Gateway for making payments, which handles the entire payment process and provides the final outcome back to Merchant system.

Note: All Merchants must adhere to the Google Pay APIs <u>Acceptable Use Policy</u> and accept the terms defined in the <u>Google Pay API Terms of Service</u>.

1.2 SCA and PSD2

- Google Pay offers a tokenized solution, which will be preferred in order to assist customers in making transactions quickly and conveniently.
- If the tokenized solution is not utilized or the issuer declines the transaction for missing SCA. Payoo will automatically proceed with the 3DS flow to facilitate the payment's success.

2 Integration Steps of Google Pay[™]

2.1 Create checkout page

Merchant needs to create and optionally customize a checkout page. There are a few suggestions and options for a smooth payment journey.

a) All-in-one checkout button

This option is used when the partner does not have enough resources to develop the full functionality for the payment page. It simply requires attaching a button, and the buyer will proceed with the payment steps at the Payoo Payment Gateway. Click here to see All-in-one checkout button format

b) In a list-style manner

This option appears quite transparent to consumers as they can see all the specific payment methods supported for their orders. Of course, the trade-off is that the merchant has to handle more tasks, requiring technical capabilities as well as development time.

Merchant should display the Google Pay button on the Merchant Site to encourage customers to opt for Google Pay.

Click here to see how to include the Google Pay brand within Merchant Site

	•	Displayed Google Pay payment button dimensions should match similar buttons and elements on the page. Choose an appropriate button based on the background color of the area where it
Note	•	appears. Ensure that the Google Pay payment button only appears after Merchant Site
		confirms the customer's ability to pay through the <u>isReadyToPay()</u> function.

Add Google Pay[™] payment method 2.2

Payoo offers many payment methods with different flavors allowing Merchant to choose, depending on each business case.

To initiate a payment, MerchantServer would call <u>Create payment link API</u> with the payment group parameter set to google-pay to redirect customer to Payoo Payment Gateway, and then Google Pay will be available on devices that support it.

Merchant's Logo 1900 54 54 78		ΡΑΥΟΟ ΡΑΥ	MENT GATEWAY		Pay00- 1900 54 54 78
	Order No 689876590	\oplus		Amount 300.000 ₫	•
			GPay		•
		Go	ogle Pay		Zalo
		Amount	300.000 <u>đ</u>		6
		Service charge	Free of charge		
		Total amount	300.000 <u>đ</u>		
		Pay w	ith <mark>G</mark> Pay		
		By using our Services, you agr	ee to VietUnion's Terms and Policies.		
	d Nov 23, 2015 of providing Payment he Ward, District 1, Ho Chi Minh City, '		Bank of Vietnam.		💼 隆 🍥

Figure 2.2-1 Google Pay information on Payoo Payment Gateway

35 Nguyen Hue Street, Ben Nghe Ward, District 1, Ho Chi Minh City, Vietnam



2.3 Create a payment link

2.3.1 General API information and URLs

ΑΡΙ

Architecture	REST API
	Sandbox/Staging: <u>https://newsandbox.payoo.com.vn/v2</u>
BaseURL	
	PRODUCTION: <u>https://payoo.vn/v2</u>
Method	POST
URL	{baseURL}/checkout
Content-Type	application/json
Charset	UTF-8

PayooServer would respond a redirect link in the payment_url field, Merchant uses this link to redirect customers to Payoo Payment Gateway for payment.

Figure 2.3-1 payment_group : "google-pay", "bank-account", "cc", "qr-pay", "pay-later", "qr-ewallet"

Merchant's Logo 1900 54 54 78		ΡΑΥΟΟ ΡΑΥΜΕ	NT GATEWAY		Pay00 1900 54 54 78
	Order No 68987659	10 🕀		Amount 300.000 ₫	•
	GPøy Google Pay	Comestic International card Card (VISA, Master, JCB)		at store E-wallet	f 200 S
		Amount	300.000 <u>đ</u>		0
		Service charge	Free of charge		
		Total amount	300.000 ₫		
		Pay with	G Pay		
		By using our Services, you agree to	VietUnion's Terms and Policies.		
	ed Nov 23, 2015 of providing Paym ghe Ward, District 1, Ho Chi Minh Ci	ient Intermediary Services by the State Bank ity, Vietnam	of Vietnam.		.
		Figure 2.3-2 payme	ent_group:"go	ogle-pay"	
Merchant's Logo 1900 54 54 78		ΡΑΥΟΟ ΡΑΥΜΕ	NT GATEWAY		Pay00 1900 54 54 78
	Order No 68987659	00 (+)		Amount 300.000 ₫	0
		GP# Google			Calo
		Amount	300.000 ₫		9
		Service charge	Free of charge		
		Total amount	300.000 ₫		
		Pay with	G Pay		
		By using our Services, you agree to	VietUnion's Terms and Policies.		

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Payoo

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Request body

	-	•	
Parameter	Туре	Req.	Description
data	str.	\checkmark	A XML string includes order information. Form: <u>OrderXML</u>
checksum	str.	\checkmark	A hash string, which is used to check the integrity of data on transmission lines between Payoo and Merchant. Formular: SHA512(<u>ChecksumKey</u> + OrderXML)
refer	str.	\checkmark	Website domain of Merchant, e.g. <u>https://webABC.com</u>
payment _group	str.	•	Codes of payment method displayed on Payoo Payment Gateway. Payment methods, which are not mentioned in payment_group, would be hidden. Code per payment method: - cc: Credit cards - bank-account: Vietnamese domestic cards/bank accounts - payoo-account: Payoo e-wallet - installment: Installment payment - qrcode: QRcode payment (QR bank and Corporated E-wallet QRs) - pay-later: Pay at store - pod: Pay on delivery - bnpl: Buy now pay later - qr-pay: QR bank - qr-ewallet: Corporated E-wallet QRs - apple-pay: Apple Pay - samsung-pay: Samsung Pay - google-pay: Google Pay For example:
			 If payment_group = google-pay, only Google Pay payment is displayed. If payment_group = google-pay, cc, only Google Pay and credit cards payment are displayed. Note:
			 If payment_group is null or empty, all payment methods confirgured for each Partner ID are displayed according to signed contract.
method	str.		 Code of one payment method assigned priority for display. Code per payment method: cc: International cards bank-account: Vietnamese domestic cards/bank accounts payoo-account: Payoo e-wallet installment: : Installment payment grcode : QRcode payment (QR bank and Corporated E-wallet QRs)



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- pay-later : Pay at store
- pod: Pay on delivery
- bnpl: Buy now pay later
- qr-pay: QR bank
- qr-ewallet: Corporated E-wallet QRs
- apple-pay: Apple Pay
- samsung-pay: Samsung Pay
- google-pay: Google Pay

For example:

- If payment_group = google-pay, only Google Pay payment is displayed.
- If payment_group = google-pay, cc, only Google Pay and credit cards payment are displayed.

Note:

- If payment_group is null or empty, all payment methods confirgured for each Partner ID are displayed according to signed contract.

Request example

"data" : "Order xml", "checksum" : "checksum value", "refer" : "http://shop.domain", "method" : "google-pay" }

OrderXML: tag <shops><shop>...</shop></shops>

Parameter	Туре	Req.	Description
username	Str.	~	Business account of Merchant, provided by Payoo after registration.
shop_id	Int.	✓	Shop ID, provided by Payoo after registration.
shop _title	Str.	✓	Shop tittle, provided by Payoo after registration.
shop _domain	Str.	\checkmark	Website domain of Merchant, e.g. <u>https://webABC.com</u>
shop_back _url	Str.	\checkmark	An URL where the customer would be redirected after the payment process ends. Note: Data must be UrlEncoded
order_no	Str. (32)	\checkmark	 Order number, a number that uniquely identifies an order in Merchant system. Applicable to data exchange between two systems.

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		 To update any details of a pre-order, Merchant could make a the same order number. Note: 	request using
		 Order number is transaction ID and not be duplicated Format is maximum of 32 characters including [A-Za-zd 	0-9_]
order_cash_amo unt	Int. 🗸	Total amount in VND. Note:	
		Do not use the thousands separator, e.g. 100.000 is incorrect, 10 Text describing the service or product sold; applicable to custome Note:	
order_ description	Str.	 Data must be UrlEncoded. Text and HTML format are allowed. Information contained might be order ID, total amo about order/service/trip. 	unt, information
notify_url	Str. ✓	An URL where Merchant receives the payment result from Payoo Payoo would RETRY to notify Merchant, in case of no {"ReturnCo Note: Data must be UrlEncoded and Merchant IP must be provided to P whitelisting.	de":0} response.
validity _time	Str. 🗸	Payment deadline. Note: - Format is yyyyMMddHHmmss. - The payment deadline must be greater than the current	nt date and time.
name	Str.	Name of customer, applicable to customer sevices.	
phone	Str.	Phone number of customer, applicable to customer sevices.	
email	Str.	Email of customer, applicable to customer sevices.	
address	Str.	Address of customer, applicable to customer sevices.	
customer _identifier	Str. (16)	Additional identification information. It helps to exclude argumer orders. E.g. booking ID, contract ID, customer ID, etc.	nts for some
mdd1	Str. (16)	Merchant defined data 1. It helps to exclude arguments for some E.g. branch ID, area ID, store ID, etc.	orders.
mdd2	Str. (16)	Merchant defined data 2. It helps to exclude arguments for some E.g. branch ID, area ID, store ID, etc.	e orders.
count_down	Int	1: show countdown timer	



0: hidde countdown timer

direct _return _time	Int.	The time in seconds that customer waits before directing to MerchantSite, when payment completed. For example: If direct_return_time = 5, customer would be directed to MerchantSite after 05 senconds. Note:
		The default limitation is 10 seconds.
jsonresponse	Bool	✓ JsonResponse = true (default value).

OrderXML example

<shops></shops>	
<shop< th=""><th>>></th></shop<>	>>
<	<pre><username> Business account of Merchant </username></pre>
<	<shop_id>Shop ID</shop_id>
<	<shop_title>Shop Title</shop_title>
<	<pre><shop_domain>http://abc.com</shop_domain></pre>
<	<shop_back_url></shop_back_url>
<	<pre><order_no>ORD_38155</order_no></pre>
<	<pre><order_cash_amount>10000</order_cash_amount></pre>
<	<pre><order_description></order_description></pre>
<	<notify_url></notify_url>
<	<pre><validity_time>20161104081203</validity_time></pre>
<	<customer></customer>
	<name>Nguyen Van Hieu</name>
	<phone>0905775888</phone>
	<address>35 Nguyễn Huệ, p. Bến Nghé, Hồ Chí Minh</address>
	<email>hieu@gmail.com</email>
<	
<	<mdd1>A-123456</mdd1>
<	<mdd2>M-910-12345</mdd2>
<	<customer_identifier></customer_identifier>
<	<jsonresponse>TRUE</jsonresponse>



<count_down></count_down>

<direct_return_time></direct_return_time>

</shop>

</shops>

Respons	se body	
Parameter	Туре	Description
		Respone result:
result	string	- success
		- fail
	string	A hash string, which is used to check the integrity of data on transmission
checksum	string	lines between Payoo and Merchant. Formular: SHA512(<u>ChecksumKey</u> + Data_response["order"])
		Merchant order number, uniquely identifies an order in Merchant system.
		Applicable to data exchange between two systems.
order_no	string	Note:
		 Order number is transaction ID and not be duplicated
		 Format is maximum of 32 characters including [A-Za-z0-9_]
amount	string	Total amount.
expiry_date	string	Payment deadline.
payment_url	string	Payment URL, an URL where Merchant needs to redirect the customer for payment process.
		Error code:
		300 : Locked user account
		301 : Temporary locked user account
		400 : Duplicate order numbers
		401 : Invalid checksum
errorcode	int.	402 : Invalid start ship date
		403 : Invalid validity date
		404 : Invalid shipping day
		405 : Invalid data shop
		406 : Invalid shop status
		407 : Order already paid



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- 408 : Amount is greater than the maximum amount allowed
- 409 : Invalid installment term
- 410 : Amount is less than the minimum amount allowed
- 411 : Duplicate pre-orders
- 412 : Invalid order no
- 598 : Unknown return code

Response example – Success case

```
"result": "success",
"checksum": "checksum value",
"order": {
    "order_no": "ORD_280015",
    "amount": "35000",
    "expiry_date": "27/10/2017 12:53:35",
    "payment_url":
"https://newsandbox.payoo.com.vn//v2//paynow//detail?
_token=7523dbeaf7798e03d6b21991501af11d"
    }
```

Response example – Fail case

```
"result": "fail",
"message": "Decrypt failed",
"order": null
"errorcode": 401
```



2.3.2 Security

Payoo uses Checksum and API credential to verify input and output data for each request and response.

Checksum

Checksum is a hash string generated by a given algorithm, used to check the integrity of data on transmission lines between two systems.

In this document, Payoo uses SHA512 to generate securehash or checksum and hashed input includes ChecksumKey provided by Payoo.

API credential

API credential is a set of security identifiers, including <u>username</u>, <u>password and signature</u>, provided by Payoo, that allows Merchant to make authenticated requests via API.

Please make sure the API credential are kept secret and regenerated at once if security has been compromised.

API credential is used in all Backend APIs.

Security resources

a) Payoo would provide Merchant:

Value	Applicable to
ChecksumKey	Checksum.
APIUsername	API credential.
APIPassword	API credential.
APISignature	API credential.
Рауоо ІР	IPN, Merchant need to whitelist Payoo IPs for sandbox and production enviroment.

b) Merchant would provide Payoo:

Value	Applicable to
Merchant domain name	Testing
Merchant static IP	IPN