Payment Gateway

API Integration Guide

Version 3.5

GALAXY PAY

Version	Date	Author	Note
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GALAXY PAY

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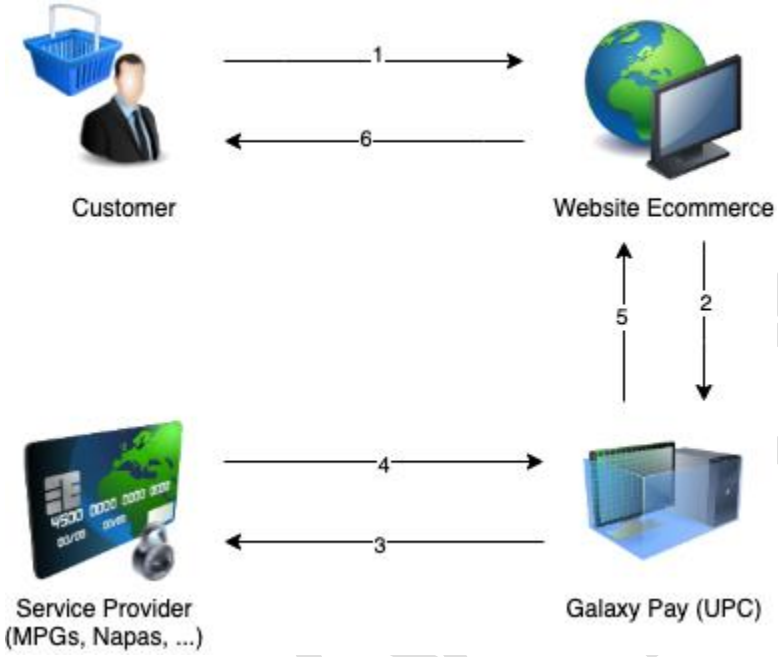
1 Overview

1.1 Integration Flow



1. Customer makes a purchase on the E-commerce Website and makes an Online Payment for the Order
2. E-commerce website establishes a payment request to GALAXY PAY and redirects customers to GALAXY PAY Secure Page with endpoint URL.
3. GALAXY PAY processes Payment requests sent by e-commerce website. Customers proceed to enter the required information to make payment.
4. The customer enters information to verify the customer's account and authenticate the transaction.
5. Successful transaction at the Service Provider, GALAXY PAY proceed:
   - Redirect customers to e-commerce website (**Result URL**)
   - Notify the E-commerce website of the customer's payment results through the **IPN URL**. Merchant updates GALAXY PAY payment results sent at this URL.
6. Merchant displays transaction results to customers

1.2 Demo

Demo		**Link**
Live Demo		https://uat-merchant.galaxypay.vn
Source Demo	.NET	https://github.com/galaxypayvn/sample-upc-dotnet

1.3 Message Structure

- Service: REST API
- HTTP Method: POST
- Content Type: application/json

The request structure:

#	Component	Level	Param	Description
1	**Request Header**	L1	**APIKey**	Key for authentication request. Provided by **GALAXY PAY**.
2		L1	**Signature**	Request signature, created with **SHA256** & **Salt**
3		L1	Accept	Accept encoding: **application/json**
4		L1	Content-Type	Request content type: **application/json**
5	**Request Body**	L1		Content of request

1.4 Integration Keys

Name	Value	Note
Endpoint for API Pay	https://uat-secure.galaxypay.vn/pay	Use for UAT only
Endpoint for API Pay With Options	https://uat-secure.galaxypay.vn/payWithOption	Use for UAT only
SHA 256 Salt	**GALAXY PAY** will provide detail when integration	Use for Signature/Checksum
API Key	**GALAXY PAY** will provide detail when integration	Use in Request authenticate

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1.5 Response Code Table

Response Code	Description
200	**Success**
400	Bad Request due to missing required fields
401	Unauthorized (Invalid Merchant Key)
408	Request Expired
409	Duplicate Request
499	Cancel by User
504	Request Timeout

1.6 Signature Algorithm

- Apply hash algorithm **SHA256** with **Salt**.

  Signature = **SHA256(**SignData + **Salt)**

Example:

Salt	**GO@2021**

JSON Data	{
	"requestID": "14653fa1-2f69-4f4f-9d4b-240e1bebbdf3",
	"requestDateTime": 20220426083322,
	"requestData": {
	"apiOperation": "PAY",
	"orderID": "2a43e4b9-c5df-49e6-8b18-42af9bcd150e",
	"orderNumber": 205249008064,
	"orderAmount": 100000,
	"orderCurrency": "VND",
	"orderDateTime": 20220426083322,
	"orderDescription": "DEMO TRANSACTION",
	"paymentMethod": "DOMESTIC",
	"sourceType": "970400",
	"language": "vi"
	}
	}

Sign Data (JSON String)	{"requestID":"14653fa1-2f69-4f4f-9d4b-240e1bebbdf3","requestDateTime":20220426083322,"requestData":{"apiOperation":"PAY","orderID":"2a43e4b9-c5df-49e6-8b18-42af9bcd150e","orderNumber":205249008064,"orderAmount":100000,"orderCurrency":"VND","orderDateTime":20220426083322,"orderDescription":"DEMO TRANSACTION","paymentMethod":"DOMESTIC","sourceType":"970400","language":"vi"}}
Signature	b4b7cb5596680bb343f399922fc32e63fd69191c573e83c0383fd734531eab03

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1.7 Currencies Table

Currency	Code
Vietnam Dong	VND
US Dollar	USD
Thai Baht	THB
Japanese Yen	JPY
India Rupee	INR
Taiwan Dollar	TWD
Ringit Malaysia	MYR
Singapore Dolar	SGD
South Korean Won	KRW
Riel Cambodia	KHR
Kyat Myanmar	MMK
Indonesia Rupiah	IDR
Dollar Hongkong	HKD
Ren Min Bi	CNY
Australian dollar	AUD

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1.8 eWallet Table

eWallet	Code
MoMo eWallet	MOMO
GPay eWallet	GPAY
Zalo Pay eWallet	ZALOPAY

1.9 Payment Hubs Table

Hub	Code
2C2P Hub	2C2P
POLi Hub	POLI

1.10 International Card Scheme Table

Card Scheme	Code
Visa	VISA
Master	MASTER
JCB	JCB
American Express	AMEX

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1.11 Domestic Bank Table

Viet Nam Local Banks	Code
Ngân hàng TMCP Sài Gòn Công Thương	SAIGONBANK
Ngân hàng TMCP Sài Gòn Thương Tín	SACOMBANK
Ngân hàng Nông nghiệp và Phát triển Nông thôn Việt Nam	AGRIBANK
Ngân hàng TMCP Đông Á	DONGABANK
Ngân hàng TMCP Kỹ Thương	TECHCOMBANK
Ngân hàng Thương mại TNHH MTV Dầu Khí Toàn Cầu	GPBANK
Ngân hàng TMCP Bắc Á	BACABANK
Ngân hàng TMCP Đại Chúng Việt Nam	PVCOMBANK
Ngân hàng TNHH MTV Đại Dương	OCEANBANK
Ngân hàng TMCP Công Thương Việt Nam	VIETINBANK
Ngân hàng TMCP Á Châu	ACB
Ngân hàng Đầu tư và Phát triển Việt Nam	BIDV
Ngân hàng TMCP Quốc Dân	NCB
Ngân hàng liên doanh Việt Nga	VRB
Ngân hàng TMCP Quân Đội	MB
Ngân hàng TMCP Tiên Phong	TPBANK
Ngân hàng TNHH MTV Shinhan Việt Nam	SHINHANBANK
Ngân hàng TMCP An Bình	ABBANK
Ngân hàng TMCP Hàng Hải Việt Nam	MSB
Ngân hàng TMCP Việt Á	VIETABANK
Ngân hàng TMCP Nam Á	NAMABANK

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Ngân hàng TMCP Sài Gòn	SCB
Ngân hàng TMCP Xăng dầu Petrolimex	PGBANK
Ngân hàng TMCP Xuất Nhập khẩu Việt Nam	EXIMBANK
Ngân hàng TMCP Việt Nam Thịnh Vượng	VPBANK
Ngân hàng TMCP Việt Nam Thương Tín	VIETBANK
Ngân hàng TNHH Indovina	IVB
Ngân hàng TMCP Ngoại thương Việt Nam	VIETCOMBANK
Ngân hàng TMCP Phát Triển Thành Phố Hồ Chí Minh	HDBANK
Ngân hàng TMCP Bảo Việt	BAOVIETBANK
Ngân hàng TNHH MTV Public Việt Nam	PUBLICBANK
Ngân hàng TMCP Đông Nam Á	SEABANK
Ngân hàng TMCP Quốc Tế Việt Nam	VIB
Ngân hàng TNHH MTV Hong Leong Việt Nam	HONGLEONGBANK
Ngân hàng TMCP Sài Gòn - Hà Nội	SHB
Ngân hàng TMCP Phương Đông	OCB
Ngân hàng TMCP Bưu Điện Liên Việt	LIENVIETPOSTBANK
Ngân hàng TMCP Kiên Long	KIENLONGBANK
Ngân hàng TMCP Bản Việt	VIETCAPITALBANK
Ngân Hàng Hana	KEBHANA
Ngân hàng Woori Bank Việt Nam	WOORIBANK
Ngân hàng UOB Việt Nam	UOB
Công ty Tài chính cổ phần Tín Việt	VIETCREDIT
Công ty Tài chính TNHH MTV Mirae Asset (Việt Nam)	MAFC

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1.12 Card Test Information

1.12.1 International (via MPGs)

Card Number	Expiry Date	CVV	3DS Secure
5506920809243667	01 / 39	100	Y
4012000033330026	01 / 39	100	N

1.12.2 International (via Cybersource)

Card Number	Expiry Date	CVV	3DS Secure
4456530000001096	12 / 30	111	Y
4456530000000064	12 / 30	111	N

1.12.3 Viet Nam Domestic (via Napas)

Card Number	Card Holder Name	Issue Date / Expiry Date	OTP (Pernament)
9704000000000018	Nguyen Van A	03/07	otp

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2 API Specfication

2.1 Definition Table

Definition	**Remark**
Mandatory (M)	Required when call API
Optional (O)	DOT NOT Required when call API
Condition (C)	Base on Condition of another field when call API, that field can be Required or Optional

2.2 Data Format

Definition	**Remark**
Alpha	String data, including capital letters (A-Z), usually (a-z)
Numeric	Numeric data, consisting only of numeric characters (0-9)
Alphanumeric	Numeric data, including uppercase, lowercase, and numeric characters
JSON Object	JSON object data
JSON Array	JSON array data

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2.3 API Pay

Use to create a simple payment request to GALAXY PAY.

URL: https://uat-secure.galaxypay.vn/pay

2.3.1 Request Message

Header					
Level	**Field Name**	**Data Type**	**Length**	**Required**	**Description**
1	apiKey	Alphanumeric		M	Request authenticate
1	signature	Alphanumeric		M	Request signature
Body					
Level	**Field Name**	**Data Type**	**Length**	**Required**	**Description**
1	requestID	Alphanumeric	50	M	Unique ID for each transaction request Recommend: **GUID**
1	requestDateTime	Numeric	14	M	**yyyyMMddHHmmss**
1	requestData	JSON Object			
2	apiOperation	Alpha	20	M	Set default value: **PAY**
2	orderID	Alphanumeric	50	M	Transaction ID at Merchant
2	orderNumber	Alphanumeric	20	O	Order Number or Bill Number
2	orderAmount	Numeric	16	M	Transaction Amount
2	orderCurrency	Alpha	3	M	Send the code in **Currencies Table**
2	orderDateTime	Numeric	14	M	**yyyyMMddHHmmss**
2	orderDescription	Alphanumeric	250	M	Transaction Description
2	paymentMethod	Alpha	20	M	**DOMESTIC** |**INTERNATIONAL** | **WALLET** | **HUB** DOMESTIC: VietNam Local Card INTERNATIONAL: International Card WALLET: MoMo ewallet, Zalo Pay ewallet… HUB: Payment hub…
2	sourceType	Alphanumeric	20	O	**Can leave it blank or set the value corresponding to the payment method.** When **paymentMethod = DOMESTIC** Send the code in **Domestic Bank Table** … When **paymentMethod = INTERNATIONAL** Send the code in **International Card Scheme Table** … When **paymentMethod = WALLET** Send the code in **eWallet Table** … When **paymentMethod = HUB** Send the code in **Payment Hubs Table**

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2	language	Alpha	2	M	**vi** or **en** vi: Vietnamese en: English
2	successURL	Alphanumeric	500	O	Callback URL when Payment is success
2	failureURL	Alphanumeric	500	O	Callback URL when Payment is failure
2	cancelURL	Alphanumeric	500	O	Callback URL when Customer cancel
2	ipnURL	Alphanumeric	500	O	IPN URL
2	cardNumber	Numeric	19	O	**Use for Hosted Merchant only**
2	cardHolderName	Alphanumeric	19	O	**Use for Hosted Merchant only**
2	cardExpireDate	Alphanumeric	5	O	**Use for Hosted Merchant only** **Format: MM/YY**
2	cardVerificationValue	Numeric	3	O	**Use for Hosted Merchant only** **CVV/CVC**
2	extraData	JSON Object		O	Extra data
3	**customer**	JSON Object		O	Customer information
4	firstName	Alphanumeric	50	O	Customer first name
4	lastName	Alphanumeric	50	O	Customer last name
4	identityNumber	Numeric	50	O	Customer national ID
4	email	Alphanumeric	50	O	Customer email
4	phoneNumber	Numeric	50	O	Customer phone number
4	phoneType	Alpha	1	O	Customer phone type **F**: Fixed-line or **M**: Mobile
4	gender	Alpha	1	O	Customer gender **M**: Male, **F**: Female
4	dateOfBirth	Numeric	8	O	Customer birth day **yyyyMMdd**
4	title	Alphanumeric	50	O	Customer title
3	**device**	JSON Object		O	Device information
4	browser	Alphanumeric	50	O	Browser information
4	fingerprint	Alphanumeric	100	O	Unique identifier for the device
4	hostName	Alphanumeric	50	O	The name of merchant server
4	ipAddress	Alphanumeric	50	O	The ip address of merchant server
4	deviceID	Alphanumeric	50	O	Mobile device identifier
4	deviceModel	Alphanumeric	50	O	Mobile device model
3	**application**	JSON Object		O	Application information

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4	applicationID	Alphanumeric	50	O	Application Identifier
4	applicationChannel	Alpha	50	O	Application channel **Mobile, Web, POS**
3	**airline**	JSON Object		O	Airline information
4	recordLocator	Alphanumeric	50	O	Passenger name record (PNR)
4	journeyType	Numeric	1	O	Oneway: 1, Roundtrip: 2
4	departureAirPort	Alphanumeric	50	O	Departure air port
4	departureDateTime	Numeric	14	O	Departure date time **yyyyMMddHHmmss**
4	arrivalAirPort	Alphanumeric	50	O	Arrival air port
4	arrivalDateTime	Numeric	14	O	Arrival date time
4	**services**	JSON Array		O	Airline services information
5	serviceCode	Alphanumeric	50	O	Service code
5	quantity	Numeric	10	O	Service quantity
5	amount	Numeric	16	O	Service amount
5	tax	Numeric	6	O	Service tax
5	fee	Numeric	6	O	Service fee
5	currency	Alpha	3	O	Service amount currency **VND** or **USD**
4	**flights**	JSON Array		O	Airline flights information
5	airlineCode	Alphanumeric	50	O	Airline code
5	carrierCode	Alphanumeric	50	O	Carrier code
5	flightNumber	Numeric	50	O	Flight number
5	travelClass	Alphanumeric	50	O	Class of service
5	departureAirPort	Alphanumeric	50	O	Departure air port
5	departureDate	Numeric	50	O	Departure date yyyyMMdd
5	departureTime	Numeric	50	O	Departure time HHmmss
5	departureTax	Numeric	50	O	Departure tax
5	arrivalAirPort	Alphanumeric	50	O	Arrival air port
5	arrivalDate	Numeric	50	O	Arrival air port
5	arrivalTime	Numeric	50	O	Arrival date yyyyMMdd
5	fees	Numeric	50	O	Total fees

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5	taxes	Numeric	50	O	Total taxs
5	fares	Numeric	50	O	Total fares
5	fareBasicCode	Alphanumeric	50	O	Code defining rules forming the basic of fare.
5	originCountry	Alpha	2	O	Country code of the country of origin for the flight.
4	**passengers**	JSON Array		O	Airline passengers information
5	passengerID	Alphanumeric	50	O	Passenger ID or Passport
5	passengerType	Alphanumeric	50	O	Adult: ADT, Children: CHD, Infant: INF
5	firstName	Alphanumeric	50	O	Passenger first name
5	lastName	Alphanumeric	50	O	Passenger last name
5	title	Alphanumeric	50	O	Passenger title
5	gender	Alpha	1	O	Passenger gender
5	dateOfBirth	Numeric	14	O	Passenger birth day yyyyMMddHHmmss
5	identityNumber	Alphanumeric	50	O	Passenger national ID
5	nameInPNR	Alphanumeric	50	O	Name in PNR
5	memberTicket	Alphanumeric	50	O	Member ticket ID
3	**billing**	JSON Object		O	Billing address information
4	country	Alpha	2	O	Billing country
4	state	Alphanumeric	50	O	Billing state/provine
4	city	Alphanumeric	50	O	Billing city
4	postalCode	Alphanumeric	50	O	Billing postal code
4	streetNumber	Alphanumeric	50	O	Billing street number
4	address01	Alphanumeric	50	O	Billing address line 1
4	address02	Alphanumeric	50	O	Billing address line 2
3	**shipping**	JSON Object		O	Shipping address information
4	country	Alpha	2	O	Shipping country
4	state	Alphanumeric	50	O	Shipping state/provine
4	city	Alphanumeric	50	O	Shipping city
4	postalCode	Alphanumeric	50	O	Shipping postal code
4	streetNumber	Alphanumeric	50	O	Shipping street number
4	address01	Alphanumeric	50	O	Shipping address line 1

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4	address02	Alphanumeric	50	O	Shipping address line 2

Example


```
{
  "requestID": "14653fa1-2f69-4f4f-9d4b-240e1bebbdf3",
  "requestDateTime": 20220426083322,
  "requestData": {
    "apiOperation": "PAY",
    "orderID": "2a43e4b9-c5df-49e6-8b18-42af9bcd150e",
    "orderNumber": 205249008064,
    "orderAmount": 100000,
    "orderCurrency": "VND",
    "orderDateTime": 20220426083322,
    "orderDescription": "DEMO TRANSACTION",
    "paymentMethod": "DOMESTIC",
    "sourceType": "",
    "language": "vi",
    "extraData": {
      "customer": {
        "firstName": "Luca",
        "lastName": "Joshua",
        "identityNumber": "6587729673",
        "email": "William@outlook.com",
        "phoneNumber": "0598961097",
        "phoneType": "15oBj0MfIo",
        "gender": "M",
        "dateOfBirth": "19990716",
        "title": "Mr"
      },
      "device": {
        "browser": "QJc2njSA0f",
        "fingerprint": "hA05iBWrRE",
        "hostName": "tKlUfI0PSy",
        "ipAddress": "XGInpbefIV",
        "deviceID": "NzoBA2ys2y",
        "deviceModel": "yB0pcSWtlC"
      },
      "application": {
        "applicationID": "KbPCc8eSXH",
        "applicationChannel": "Mobile"
      },
      "airline": {
        "recordLocator": "taiytAvAbH",
        "journeyType": 630351972,
        "departureAirport": "0GwfbYTgKQ",
        "departureDateTime": "26/04/2022 09:33:28",
        "arrivalAirport": "Z7oMrnXLyV",
        "arrivalDateTime": "26/04/2022 07:49:17",
        "services": [{
          "serviceCode": "CNm3xWF0BN",
          "quantity": 2080236449,
          "amount": 90000,
          "tax": 0,
          "fee": 20000,
          "totalAmount": 90000,
          "currency": "USD"
        }
        ],
        "flights": [{
          "airlineCode": "iwxOOR6FdH",
          "carrierCode": "uOzkYneyc4",
          "flightNumber": 2094437388,
          "travelClass": "F7nh7Sq3h0",
          "departureAirport": "kaUCOr4fIu",
          "departureDate": "nTTKO14KMw",
          "departureTime": "26/04/2022 05:18:41",
          "departureTax": "PPKh18CuOL",
          "arrivalAirport": "9ngCTN12RX",
          "arrivalDate": "J7dPrCJhG4",
          "arrivalTime": "26/04/2022 01:50:58",
          "fees": 10000,
          "taxes": 0,
          "fares": 80000,
          "fareBasisCode": "loJaV16qdp",
          "originCountry": "ctdWpuaNUY"
        }
        ],
        "passengers": [{
```

```
          "passengerID": "PY46jn97Ti",
          "passengerType": "5VnNkPVs7k",
          "firstName": "James",
          "lastName": "Theodore",
          "title": "Mr",
          "gender": "F",
          "dateOfBirth": "20220425",
          "identityNumber": "bRcd3XuUx1",
          "nameInPNR": "UXHnlFZzTz",
          "memberTicket": "M5SnryZ27k"
        }
        ]
      },
      "billing": {
        "country": "vn",
        "state": "",
        "city": "Hồ Chí Minh",
        "postalCode": "70000",
        "streetNumber": "673",
        "address01": "Đường Nguyễn Hữu Thọ",
        "address02": ""
      },
      "shipping": {
        "country": "vn",
        "state": "",
        "city": "Hồ Chí Minh",
        "postalCode": "70000",
        "streetNumber": "673",
        "address01": "Đường Nguyễn Hữu Thọ",
        "address02": ""
      }
    }
  }
}
```


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2.3.2 Response Message

Header					
Level	**Field Name**	**Data Type**	**Length**	**Required**	**Description**
1	signature	Alphanumeric		M	Response signature
Body					
Level	**Field Name**	**Data Type**	**Length**	**Required**	**Description**
1	requestID	Alphanumeric	50	M	Original Request ID
1	responseDateTime	Numeric	14	M	**yyyyMMddHHmmss**
1	responseCode	Numeric	3	M	See **Response Code Table** for detail
1	responseMessage	Alphanumeric	250	M	Response message
1	responseData	JSON Object		M	Response data
2	transactionID	Alphanumeric		M	GALAXY PAY transaction ID
2	endpoint	Alphanumeric		M	Secure page URL (Use for Redirect)

Example


```
{
  "requestID": "14653fa1-2f69-4f4f-9d4b-240e1bebbdf3",
  "responseDateTime": "20220506092917",
  "responseCode": "00",
  "responseMessage": "Success",
  "responseData": {
    "transactionID": "22120553040516197001362225",
    "endpoint": "https://uat-payment.galaxypay.vn/pay/22120553040516197001362225"
  }
}
```


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2.4 API Pay with Option

Use to create a payment request to GALAXY PAY with payment options. Customers can select payment methods on GALAXY PAY.

URL: https://uat-secure.galaxypay.vn/payWithOption

2.4.1 Request Message

Header					
Level	**Field Name**	**Data Type**	**Length**	**Required**	**Description**
1	apiKey	Alphanumeric		M	Request authenticate
1	signature	Alphanumeric		M	Request signature
Body					
Level	**Field Name**	**Data Type**	**Length**	**Required**	**Description**
1	requestID	Alphanumeric	50	M	Unique ID for each transaction request Recommend: **GUID**
1	requestDateTime	Numeric	14	M	**yyyyMMddHHmmss**
1	requestData	JSON Object			
2	apiOperation	Alpha	20	M	Set default value: **PAY**
2	orderID	Alphanumeric	50	M	Transaction ID at Merchant
2	orderNumber	Alphanumeric	20	O	Order Number or Bill Number
2	orderAmount	Numeric	16	M	Transaction Amount
2	orderCurrency	Alpha	3	M	Send the code in **Currencies Table**
2	orderDateTime	Numeric	14	M	**yyyyMMddHHmmss**
2	orderDescription	Alphanumeric	250	M	Transaction Description
2	language	Alpha	2	M	**vi** or **en** vi: Vietnamese en: English
2	successURL	Alphanumeric	500	O	Callback URL when Payment is success
2	failureURL	Alphanumeric	500	O	Callback URL when Payment is failure
2	cancelURL	Alphanumeric	500	O	Callback URL when Customer cancel
2	ipnURL	Alphanumeric	500	O	IPN URL
2	extraData	JSON Object		O	Extra data. Same as API Pay
Example					

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```
{
  "requestID": "14653fa1-2f69-4f4f-9d4b-240e1bebbdf3",
  "requestDateTime": 20220426083322,
  "requestData": {
    "apiOperation": "PAY",
    "orderID": "2a43e4b9-c5df-49e6-8b18-42af9bcd150e",
    "orderNumber": 205249008064,
    "orderAmount": 100000,
    "orderCurrency": "VND",
    "orderDateTime": 20220426083322,
    "orderDescription": "DEMO TRANSACTION",
    "language": "vi",
    "extraData": {
    }
  }
}
```


2.4.2 Response Message

Header					
Level	**Field Name**	**Data Type**	**Length**	**Required**	**Description**
1	signature	Alphanumeric		M	Response signature
Body					
Level	**Field Name**	**Data Type**	**Length**	**Required**	**Description**
1	requestID	Alphanumeric	50	M	Original Request ID
1	responseDateTime	Numeric	14	M	**yyyyMMddHHmmss**
1	responseCode	Numeric	3	M	See **Response Code Table** for detail
1	responseMessage	Alphanumeric	250	M	Response message
1	responseData	JSON Object		M	Response data
2	transactionID	Alphanumeric		M	GALAXY PAY transaction ID
2	endpoint	Alphanumeric		M	Secure page URL (Use for Redirect)

Example


```
{
  "requestID": "260b8362e5194b0da4b7eb6c54c87225",
  "responseDateTime": "20220912174055",
  "responseCode": "200",
  "responseMessage": "Success",
  "responseData": {
    "transactionID": "22120553040516197001362225",
    "endpoint": "https://uat-payment.galaxypay.vn/payWithOption/22120553040516197001362225"
  }
}
```

2.5 Cancel Callback

- Use for Merchant to redirect customer to cancel payment page.
- Support http method **POST** or **GET**

2.5.1 Response Message

Body					
Level	**Field Name**	**Data Type**	**Length**	**Required**	**Description**
1	data	Alphanumeric		M	Base-64 string
1	signature	Alphanumeric		M	Response Signature
Data (Decode Base-64 String)					
Level	**Field Name**	**Data Type**	**Length**	**Required**	**Description**
1	requestID	Alphanumeric	50	M	Original Request ID
1	responseDateTime	Numeric	14	M	**yyyyMMddHHmmss**
1	responseCode	Numeric	3	M	See **Response Code Table** for detail
1	responseMessage	Alphanumeric	250	M	Response message
1	responseData	JSON Object		M	Response data
2	transactionID	Alphanumeric	38	M	Transaction ID at GALAXY PAY
2	transactionDateTime	Numeric	14	M	**yyyyMMddHHmmss**
2	orderID	Alphanumeric	50	M	Transaction ID at Merchant
2	orderNumber	Alphanumeric	20	O	Order Number or Bill Number
2	orderAmount	Numeric	16	M	Transaction Amount
2	orderCurrency	Alpha	3	M	**VND** or **USD**
2	orderDateTime	Numeric	14	M	**yyyyMMddHHmmss**
2	orderDescription	Alphanumeric	250	M	Transaction Description
2	language	Alpha	2	M	**vi** or **en** vi: Vietnamese en: English
Example					


```
{
  "data":
"eyJyZXF1ZXN0SUQiOiIxNDY1M2ZhMS0yZjY5LTRmNGYtOWQ0Yi0yNDBlMWJlYmJkZjMiLCJyZXNwb25zZURhdGVUaW1lIjoiMjAy
MjA1MDYxMTM1MTciLCJyZXNwb25zZUNvZGUiOiI0OTkiLCJyZXNwb25zZUllc3NhZ2UiOiJDYW5jZWxlZCBieSBlc2VyIiwicmVzc
G9uc2VEYXRhIjp7InRyYW5zYWN0aW9uSUQiOiIyMjA1MDY5OWU2NWQ5YTcxZDU0OGU2YjY3MzIzYWVmMWE0OTRhYyIsInRyYW5zYW
N0aW9uRGF0ZVRpbWUiOiIyMDIyMDUwNjExMzUxNyIsIm9yZGVySUQiOiI4ODgyODkiLCJvcmRlck51bWJlciI6IjgyMjYyODg5Iiw
```

```
ib3JkZXJBbW91bnQiOiIxMDkwMDAiLCJvcmRlckRlc2NyaXB0aW9uIjoiU2VjdXJlIFBhZ2UgRGVtbyIsIm9yZGVyQ3VycmVuY3kiOiJWTkQiLCJvcmRlckRhdGVUaW1lIjoiMjAyMjA0MDUyMDIwMDAiLCJsYW5ndWFnZSI6InZpIn19",
  "signature": "be8d2d815d694037d7ec2d9f7ac645d7a6168b692af6b786c1d59da72cd93a5e"
}
```


Decode Base-64 string


```
{
  "requestID": "14653fa1-2f69-4f4f-9d4b-240e1bebbdf3",
  "responseDateTime": "20220506113517",
  "responseCode": "499",
  "responseMessage": "Canceled by user",
  "responseData": {
    "transactionID": "22050699e65d9a71d548e6b67323aef1a494ac",
    "transactionDateTime": "20220506113517",
    "orderID": "888289",
    "orderNumber": "82262889",
    "orderAmount": "109000",
    "orderDescription": "Secure Page Demo",
    "orderCurrency": "VND",
    "orderDateTime": "20220405202000",
    "language": "vi"
  }
}
```


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2.6 Result & IPN Callback

- Result URL: Use for Merchant to show result for Customer. Support http method **POST** or **GET**
- IPN URL: Use for Merchant to receive payment result and process business workflow.

2.6.1 Request Message

Body					
Level	**Field Name**	**Data Type**	**Length**	**Required**	**Description**
1	data	Alphanumeric		M	Base-64 string
1	signature	Alphanumeric		M	Response Signature
Data (Decode Base-64 String)					
Level	**Field Name**	**Data Type**	**Length**	**Required**	**Description**
1	requestID	Alphanumeric	50	M	Original Request ID
1	responseDateTime	Numeric	14	M	**yyyyMMddHHmmss**
1	responseCode	Numeric	3	M	See **Response Code Table** for detail
1	responseMessage	Alphanumeric	250	M	Response message
1	responseData	JSON Object		M	Response data
2	transactionID	Alphanumeric	38	M	Transaction ID at GALAXY PAY
2	transactionDateTime	Numeric	14	M	**yyyyMMddHHmmss**
2	orderID	Alphanumeric	50	M	Transaction ID at Merchant
2	orderNumber	Alphanumeric	20	O	Order Number or Bill Number
2	orderAmount	Numeric	16	M	Transaction Amount
2	orderCurrency	Alpha	3	M	**VND** or **USD**
2	orderDateTime	Numeric	14	M	**yyyyMMddHHmmss**
2	orderDescription	Alphanumeric	250	M	Transaction Description
2	language	Alpha	2	M	**vi** or **en** vi: Vietnamese en: English

Example


```
{
  "data":
"eyJyZXF1ZXN0SUQiOiIxNDY1M2ZhMS0yZjY5LTRmNGYtOWQ0Yi0yNDBlMWJlYmJkZjMiLCJyZXNwb25zZURhdGVUaW1lIjoiMjAy
MjA1MDYxMTM1MTciLCJyZXNwb25zZUNvZGUiOiIyMDAiLCJyZXNwb25zZU1lc3NhZ2UiOiJUcmFuc2FjdGlvbiBpcyBzdWNjZXNzZ
nVsLiIsInJlc3BvbnNlRGF0YSI6eyJ0cmFuc2FjdGlvbklEIjoiMjIwNTA2OTllNjVkOWE3MWQ1NDhlNmI2NzMyM2FlZjFhNDk0YW
MiLCJ0cmFuc2FjdGlvbkRhdGVUaW1lIjoiMjAyMjA0MDUyMDIwMDAiLCJvcmRlcklEIjoiODg4Mjg5Iiwib3JkZXJOdW1iZXIiOiI
```

```
4MjI2Mjg4OSIsIm9yZGVyQW1vdW50IjoiMTA5MDAwIiwib3JkZXJEZXNjcmlwdGlvbiI6IlNlY3VyZSBQYWdlIERlbW8iLCJvcmRlckN1cnJlbmN5IjoiVk5EIiwib3JkZXJEYXRlVGltZSI6IjIwMjIwNDA1MjAyMDAwIiwibGFuZ3VhZ2UiOiJ2aSJ9fQ==",
  "signature": "4952cb18e6b136de4c15ecbae75ba1a758257684eb97a43f351e34bb12cede5f"
}
```


Decode Base-64 string


```
{
  "requestID": "14653fa1-2f69-4f4f-9d4b-240e1bebbdf3",
  "responseDateTime": "20220506113517",
  "responseCode": "200",
  "responseMessage": "Transaction is successful.",
  "responseData": {
    "transactionID": "22050699e65d9a71d548e6b67323aef1a494ac",
    "transactionDateTime": "20220405202000",
    "orderID": "888289",
    "orderNumber": "82262889",
    "orderAmount": "109000",
    "orderDescription": "Secure Page Demo",
    "orderCurrency": "VND",
    "orderDateTime": "20220405202000",
    "language": "vi"
  }
}
```


2.6.2 Response Message (FOR IPN ONLY)

Body					
Level	**Field Name**	**Data Type**	**Length**	**Required**	**Description**
1	ipnStatus	Alphanumeric	50	M	Response Code for IPN Request. Accepted value: **200**: Transaction Success 404: Transaction Not Found 409: Transaction Completed
1	ipnDescription	Alphanumeric	250	O	Response Description

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