



GooglePay™ integration Guide

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1. Revision Control

1.1. Document Revision

Revision	Description of Changes	Author	Status	Date
0.1	Initial Creation of Document	Thomas Ospelt	Draft	2020/09/23
0.2	Additions on feedback from Google	Thomas Ospelt	Draft	2020/11/16
1.0	Updating to Planet layout and naming	Thomas Ospelt	Release	2021/02/24

1.2. Document Approval

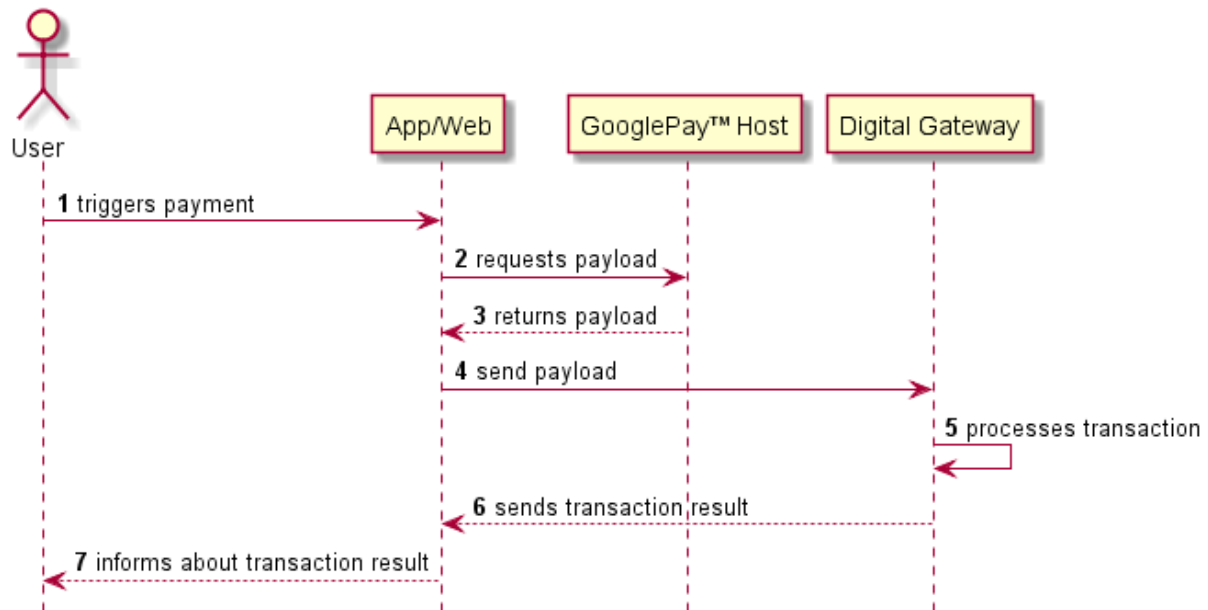
Signatory	Designation	Date
Thomas Ospelt	Integra & Digital Development Manager	2021/02/24

2. Scope of this document

This document is intended to provide an integrator guidance on how to integrate GooglePay™ with Planet. It describes the required steps for an integrator to do a successful GooglePay™ transaction.

2.1. Basic GooglePay™ Transaction flowpayment using GooglePay™ with Planet.

The simplified flow for a GooglePay™ transaction is as follows:



Depending on the Integrator's client architecture, there can be more components involved. This diagram aims to show the bare minimum components to successfully process a GooglePay™ Transaction.

2.2 Supported transaction types

For GooglePay™ we currently support the following transaction types

- Sale (Purchase)
- Refund
- Reversal (Void)
- Pre-Authorizations
- Top-Ups (Incremental Auths)
- Completion (Capture)

For these transaction types we also support DCC (Dynamic Currency Conversion).

2.3 Supported Card Brands

Planet currently supports the following Brands in the different countries/areas:

Worldwide

- Mastercard
- Visa
- American Express
- UCI

3. Prerequisites for the GooglePay™ integration

Before you can target any of the endpoints with a GooglePay™ request, please make sure you are able to fulfill the following prerequisites.

3.1. Connectivity Prerequisites

The payment endpoints are publicly available on the following endpoints:

- <https://services.3cint.com:8989/digital-gateway/v1/security/session/create>
- <https://services.3cint.com:8989/digital-gateway/v1/wallet/{walletIdentifier}/transaction/{cardTypeIdentifier}/perform>
- <https://services.3cint.com:8989/digital-gateway/v1/pat/opi/check/{checkNum}/pay>

Please make sure you are able to target the above URL from your client system.

3.2. Required client data

Additionally you need specific data to fill the requests. This data has been communicated by Planet to be used for your integration. The data required are:

- Scheme Identifier
- Requester Location ID
- API Key
- gatewayMerchantId

Make sure you have created a Wallet with the Digital Gateway. Otherwise you will not be able to pay. For further information about this, see the Digital Gateway Documentation.

3.3 Registration with GooglePay™

The gateway to be used in the tokenization specification needs to be set to the following:

```
1 "gateway" : "cccpayment"  
2 "gatewayMerchantId" : "YOUR_GATEWAY_MERCHANT_ID"
```

The "gatewayMerchantId" will be provided along with your registration with Planet.

4. Performing a GooglePay™ transaction.

If you already have created a wallet for a user, using GooglePay™ for this user is a 2 step process.

4.1. Generating the GooglePay™ Transaction Payload.

First you need to generate the GooglePay™ payload that encrypts the card details and other additional data.

The detailed procedure is described in Google's documentation available at: <https://developers.google.com/pay/api>

Here you can find the documentation for Web and Android clients.

When requesting the GooglePay™ payload, please make sure to use "CRYPTOGRAM_3DS" in the "allowedAuthMethod" parameter. "PAN_ONLY" mode is not supported by Planet at this moment.

4.2 Sending the payload to Planet and process the transaction.

Once you have generated the GooglePay™ payload, you can follow the transaction process of the Digital Gateway.

4.2.1 Create a secure session for your Wallet Account.

To be able to process any transaction you need to authenticate the user to the Digital Gateway. This can be done by calling the endpoint at:

<https://services.3cint.com:8989/digital-gateway/v1/security/session/create>

Header Parameters

Name	Type	Mandatory	Description
User-Agent	String	Yes	Identifies the application type that is calling the endpoint. This is used to identify if the endpoint is called by a browser, app or other application
X-Request-ID	String	No	Unique message identifier. If it is not sent in the request it is generated by the DGW and returned in the Response.

Body

```
1 {
2   "identifierEntryType": "M",
3   "password": "string",
4   "registrationIdentifier": "string",
5   "schemeIdentifier": "string"
6 }
```

Response

```
1 {
2   "errors": [
3     "string"
4   ],
5   "resultCode": "string",
6   "resultMessage": "string",
7   "sessionTimeout": 0,
8   "walletIdentifier": "string"
9 }
```

The header of the response will contain the session key, that can be used for further interactions with this wallet.

4.2.2 Send the transaction

After creating the session, you can now send the transaction with the GooglePay™ payload by using one of the following endpoints

<https://services.3cint.com:8989/digital-gateway/v1/wallet/{walletIdentifier}/transaction/{card-TypeIdIdentifier}/perform>

or

<https://services.3cint.com:8989/digital-gateway/v1/pat/opi/check/{checkNum}/pay>

What endpoint you chose depend on your usecase (regular payment flow or integrated Pay@Table flow).

Header Parameters

Name	Type	Manda- tory	Description
Authorization	String	Yes	The session token. For this call a "Session" is required to access this API. The Session key needs to be requested via the corresponding API call, and then used for all calls.
User-Agent	String	Yes	Identifies the application type that is calling the endpoint. This is used to identify if the endpoint is called by a browser, app or other application
X-Request-ID	String	No	Unique message identifier. If it is not sent in the request it is generated by the DGW and returned in the Response.

Path Parameters

Name	Type	Manda- tory	Description
cardTypeIdent- fier	String	Yes	The cardTypeeld for the transaction. For GooglePay™ this can be set to "null" or "GP"

Body

```

1 {
2   "amountDonation": {
3     "amount": 0,
4     "currency": "string",
5     "exponent": 0
6   },
7   "amountTip": {
8     "amount": 0,
9     "currency": "string",
10    "exponent": 0
11  },
12  "amountTransaction": {
13    "amount": 0,
14    "currency": "string",
15    "exponent": 0

```



```
16 },
17 "cardData": {
18   "cardDataEncrypted": "string",
19   "cardDataType": "card_identifier"
20 },
21 "requesterLocationIdentifier": "string",
22 "requesterTransactionReferenceNumber": "string",
23 "timestamp": "string",
24 "transactionType": "SALE"
25 }
```

Response

```
1 {
2   "amountAuthorized": {
3     "amount": 0,
4     "currency": "string",
5     "exponent": 0
6   },
7   "amountDonation": {
8     "amount": 0,
9     "currency": "string",
10    "exponent": 0
11  },
12  "amountTip": {
13    "amount": 0,
14    "currency": "string",
15    "exponent": 0
16  },
17  "amountTransaction": {
18    "amount": 0,
19    "currency": "string",
20    "exponent": 0
21  },
22  "avsResult": "string",
23  "bankAuthCode": "string",
24  "bankResultCode": "string",
25  "bankResultMessage": "string",
26  "cardData": {
27    "cardDataType": "card_identifier",
28    "cardToken": "string",
29    "cardTokenExpiryDate": "string"
30  },
31  "cardholderReceipt": "string",
32  "errors": [
33    "string"
34  ],
35  "isReversed": true,
36  "merchantReceipt": "string",
37  "requesterLocationIdentifier": "string",
38  "requesterTransactionReferenceNumber": "string",
```

```
39  "resultCode": "string",
40  "resultMessage": "string",
41  "transactionDate": "string",
42  "transactionIdentifier": "string",
43  "transactionResult": "A",
44  "transactionType": "string"
45 }
```

The GooglePay™ encrypted payment data and the transaction data needs to be sent using this API call in the field "cardDataEncrypted". The Server will decrypt the data and match it against the gatewayId and gatewayMerchantID you received from Planet before processing the transaction. For GooglePay™ the "cardDataType" must be set to "google_pay".

5. Additional Links

Android Integration of GooglePay™

- <https://developers.google.com/pay/api/android/>
- <https://developers.google.com/pay/api/android/guides/test-and-deploy/integration-checklist>
- <https://developers.google.com/pay/api/android/guides/brand-guidelines>

Web Integration of GooglePay™

- <https://developers.google.com/pay/api/web/>
- <https://developers.google.com/pay/api/web/guides/test-and-deploy/integration-checklist>
- <https://developers.google.com/pay/api/web/guides/brand-guidelines>

Other

- <https://pay.google.com/business/console>
- <https://payments.developers.google.com/terms/sellertos>