

Magensa Payment Protection Gateway V 3&4

Payment Request API Specifications and Integration Guide

May 2022

Document Number:
D998200529

REGISTERED TO ISO 9001:2015

INFORMATION IN THIS PUBLICATION IS SUBJECT TO CHANGE WITHOUT NOTICE AND MAY CONTAIN TECHNICAL INACCURACIES OR GRAPHICAL DISCREPANCIES. CHANGES OR IMPROVEMENTS MADE TO THIS PRODUCT WILL BE UPDATED IN THE NEXT PUBLICATION RELEASE. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, FOR ANY PURPOSE, WITHOUT THE EXPRESS WRITTEN PERMISSION OF MAGTEK, INC. SOME FEATURES AND FUNCTIONS MAY BE DOCUMENTED, BUT NOT AVAILABLE WITH THE CURRENT RELEASE OF THE PRODUCT. PLEASE CONTACT YOUR MAGTEK REPRESENTATIVE FOR QUESTIONS ABOUT SPECIFIC FEATURES AND FUNCTIONS AND WHEN THEY ARE SCHEDULED TO BECOME AVAILABLE.

MagTek®, MagnePrint®, and MagneSafe® are registered trademarks of MagTek, Inc.

Magensa™ is a trademark of MagTek, Inc.

DynaPro™ and DynaPro Mini™, are trademarks of MagTek, Inc.

ExpressCard 2000™ is a trademark of MagTek, Inc.

IPAD® is a trademark of MagTek, Inc.

IntelliStripe® is a registered trademark of MagTek, Inc.

AAMVA™ is a trademark of AAMVA.

American Express® and EXPRESSPAY FROM AMERICAN EXPRESS® are registered trademarks of American Express Marketing & Development Corp.

D-PAYMENT APPLICATION SPECIFICATION® is a registered trademark to Discover Financial Services CORPORATION

MasterCard® is a registered trademark and PayPass™ and Tap & Go™ are trademarks of MasterCard International Incorporated.

Visa® and Visa payWave® are registered trademarks of Visa International Service Association.

MAS-CON® is a registered trademark of Pancon Corporation.

Molex® is a registered trademark and PicoBlade™ is a trademark of Molex, its affiliates, related companies, licensors, and/or joint venture partners

ANSI®, the ANSI logo, and numerous other identifiers containing "ANSI" are registered trademarks, service marks, and accreditation marks of the American National Standards Institute (ANSI).

ISO® is a registered trademark of the International Organization for Standardization.

UL™ and the UL logo are trademarks of UL LLC.

PCI Security Standards Council® is a registered trademark of the PCI Security Standards Council, LLC.

EMV® is a registered trademark in the U.S. and other countries and an unregistered trademark elsewhere.

The EMV trademark is owned by EMVCo, LLC. The Contactless Indicator mark, consisting of four graduating arcs, is a trademark owned by and used with permission of EMVCo, LLC.

The *Bluetooth*® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by MagTek is under license.

Google Play™ store, Google Wallet™ payment service, and Android™ platform are trademarks of Google Inc.

Apple Pay®, iPhone®, iPod®, Mac®, and OS X® are registered trademarks of Apple Inc., registered in the U.S. and other countries. iPad™ is a trademark of Apple, Inc. App StoreSM is a service mark of Apple Inc., registered in the U.S. and other countries. IOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used by Apple Inc. under license.

Microsoft®, Windows®, and .NET® are registered trademarks of Microsoft Corporation.

All other system names and product names are the property of their respective owners.

Table 0-1 - Revisions

Rev Number	Date	Notes
10	May 2022	Initial Release

The Purpose of this Document

The purpose of this document is to provide API specifications, ISV integration, and sample code for the Payment Request Service of Magensa Payment Protection Gateway (MPPG) versions 3 and 4.

Table of Contents

Table of Contents	5
1 Introduction	7
1.1 Transaction Sequence	7
2 Endpoint: HTTP GET - /api/PaymentRequest.....	8
2.1 Summary	8
2.2 Query String Parameters.....	8
2.3 Request Body	9
2.4 Responses	9
3 EndPoint: HTTP POST - /api/PaymentRequest.....	10
3.1 Summary	10
3.2 Query String Parameters.....	11
3.3 Request Body	11
3.4 Responses	12
4 EndPoint: HTTP GET - /api/PaymentRequest/{id}.....	13
4.1 Summary	13
4.2 Query String Parameters.....	13
4.3 Request Body	13
4.4 Responses	14
5 EndPoint: HTTP PUT - /api/PaymentRequest/{id}.....	15
5.1 Summary	15
5.2 Query String Parameters.....	15
5.3 Request Body	15
5.4 Responses	17
6 Merchant's Integration Guide	19
6.1 Merchant Onboarding.....	19
6.2 Create A New Payment Request.....	19
6.3 Get a List of Existing Payment Requests.....	19
6.4 Get the Detail of a Payment Request	20
6.5 Present Payment Link to Customer	20
6.6 Monitor Payment Status	20
7 Data Definitions	20
7.1 PaymentRequestSummaryListInfo	20
7.2 PaymentRequestDefinition	21
7.3 PaymentRequestDetail	22
7.4 PaymentRequestData	22

7.5	TransactionDetail	24
7.6	PaymentRequestTransactionType.....	24
7.7	PaymentRequestStatusEnum	24
7.8	TransactionSummary	25
7.9	TransactionDetail	25
7.10	PaymentRequestListError.....	25
7.11	PaymentRequestError	25
7.12	PaymentRequestErrorCode	26
8	Technical Specifications	27
Appendix A	Technical Specifications	28

1 Introduction

Payment Request API is a simple way for the merchant to create a customized payment request. With each payment request generated, the merchant receives the payment URL and a WebSocket token.

The merchant can generate a QR code using the payment URL, and then the QR code can be displayed on the terminal, sent to customers, or printed on a receipt. Customers can make a payment by scanning the QR code while a WebSocket token is used by the merchant to connect to the service so that it can receive real-time updates on payment transactions.

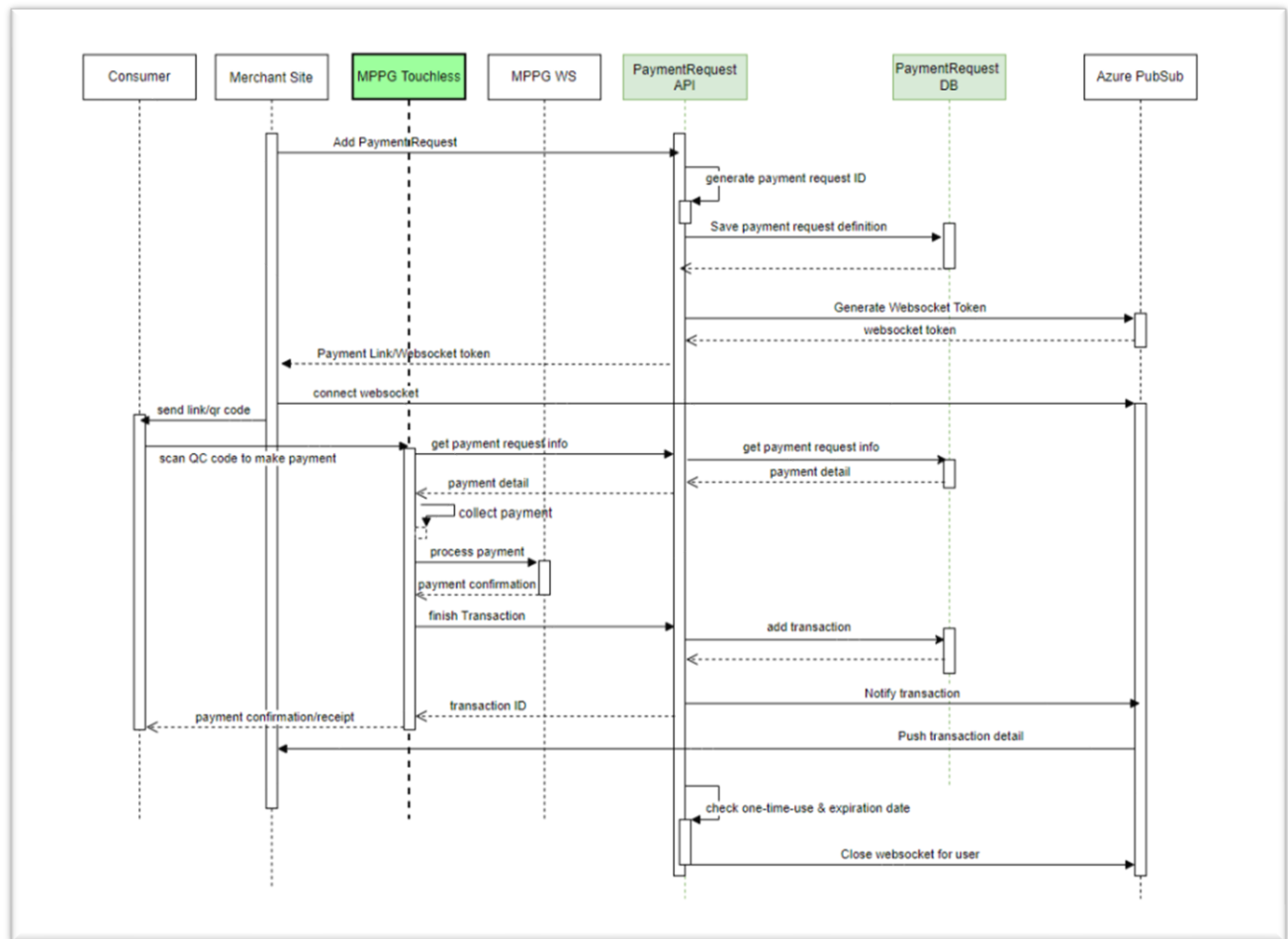
Payment Request API Calling Scenario:

The payment URL will point to an MPPG hosted payment page. When customers scan the QR code and follow the URL, they will be directed to the MPPG hosted payment page. The MPPG hosted payment will call the **Payment Request API** using the Payment Request ID, which is part of the payment URL to retrieve payment details. It will then collect payment either through manual entry or a digital wallet.

The MPPG hosted payment page will call an MPPG Web Service to process manual entry or digital wallet token transactions. Once the transaction is processed (either success or failure), the MPPG hosted payment page will invoke the Payment Request API to finish the process which in turn notifies the WebSocket.

1.1 Transaction Sequence

Below is the overall transaction sequence diagram.



2 Endpoint: HTTP GET - /api/PaymentRequest

2.1 Summary

To get a list of Payment Request Summary for given filters and paginations.

2.2 Query String Parameters

Parameter	Data Type	Description	Range	Default
ds	integer	Start date of the Payment Request creation date in format of YYYYMMDD	Any valid date	60 days prior today
de	integer	End date of the Payment Request creation date in format of YYYYMMDD	Any valid date	today
ps	integer	Page size for the pagination	1~1000	20
pn	integer	Page number	1~total # of pages	1

Parameter	Data Type	Description	Range	Default
st	integer	Status of the Payment Request	0~4	All statuses

2.3 Request Body

API Request URL with All Default parameters:

E.g.: <https://devapp.magensa.dev/PaymentRequest/api/PaymentRequest>

API Request URL with parameters along with Default Status (All):

E.g.: <https://devapp.magensa.dev/PaymentRequest/api/PaymentRequest?ds=20220413&de=20220421&ps=20&pn=1>

API Request URL with parameters along with Status (4: Paid):

E.g.: <https://devapp.magensa.dev/PaymentRequest/api/PaymentRequest?ds=20220413&de=20220421&ps=20&pn=1&st=4>

2.4 Responses

HTTP Response Code	Response Body	Note
200	PaymentRequestSummaryListInfo	Success
400	PaymentRequestListError	Input error
401	N/A	Authentication error
500	PaymentRequestListError	Server-side error

API Response with All Default parameters:

```
{
  "magTranID": "869860f8-b1b8-43a7-ad56-cbf86193d3ef",
  "totalRecordsAvailable": 2,
  "requests": [
    {
      "paymentRequestID": "2ba77b9c-ff0e-4bd4-a405-6d363037ee6d",
      "transactionType": 1,
      "customerTranID": "34344",
      "customerTranRef": "43434",
      "amount": 10,
      "usageCountLimit": 50,
      "currentUsageCount": 0,
      "isEnabled": true,
      "dateCreated": "2022-04-18T00:43:41.687-07:00",
    }
  ]
}
```

```
    "activationDate": "2022-04-18T07:43:12.313",
    "expirationDate": "2022-06-17T07:43:12.313",
    "status": 2
  },
  {
    "paymentRequestID": "242e86f0-52d4-4137-bd56-b4d4d0e19586",
    "transactionType": 1,
    "customerTranID": "dsfadsf",
    "customerTranRef": "asdfasdfasctest2",
    "amount": 10,
    "usageCountLimit": 40,
    "currentUsageCount": 0,
    "isEnabled": true,
    "dateCreated": "2022-04-21T02:05:22.6-07:00",
    "activationDate": "2022-04-21T23:05:01.743",
    "expirationDate": "2022-06-20T23:05:01.743",
    "status": 2
  }
]
```

3 EndPoint: HTTP POST - /api/PaymentRequest

3.1 Summary

This is used to add a new Payment Request.

3.2 Query String Parameters

None

3.3 Request Body

An instance of PaymentRequestDefinition.

```
{
  "transactionType": 1,
  "customerTranID": "string",
  "customerTranRef": "string",
  "amount": 0,
  "taxAmount": 0,
  "taxPercent": 0,
  "additionalInfo": [
    {
      "key": "string",
      "value": "string"
    }
  ],
  "miscData": "string",
  "processorName": "string",
  "promptForTax": true,
  "promptForTips": true,
  "termsAndTransactionInfo": "string",
  "usageCountLimit": 0,
  "isEnabled": true,
  "activationDate": "2022-05-06T10:40:16.656Z",
  "expirationDate": "2022-05-06T10:40:16.656Z"
}
```

Example Curl Request Instance:

```
curl -X 'POST' \
  'https://devapp.magensa.dev/PaymentRequest/api/PaymentRequest' \
  -H 'accept: application/json' \
  -H 'Authorization: Basic T1NUZXN0VXNlc1BSOk9TVGVzdFB3cmQjOQ==' \
  -H 'Content-Type: application/json' \
  -d '{
    "transactionType": 1,
    "customerTranID": "05062022CSTID1",
    "customerTranRef": "05062022CSTIDRef1",
    "amount": 1.00,
    "taxAmount": 1.00,
    "taxPercent": 1.00,
    "additionalInfo": null,
    "miscData": "testInfo",
    "processorName": "VANTIV_TEST",
    "promptForTax": true,
    "promptForTips": true,
    "termsAndTransactionInfo": "VANTIV_TESTInfo",
    "usageCountLimit": 0,
    "isEnabled": true,
    "activationDate": "2022-05-06T09:42:46.000Z",
  }'
```

```
"expirationDate": "2022-05-06T09:42:46.000Z"
}
```

Example Request Instance:

```
{
  "transactionType": 1,
  "customerTranID": "05062022CSTID",
  "customerTranRef": "05062022CSTIDRef",
  "amount": 1.00,
  "taxAmount": 1.00,
  "taxPercent": 1.00,
  "additionalInfo": null,
  "miscData": "testInfo",
  "processorName": "VANTIV_TEST",
  "promptForTax": true,
  "promptForTips": true,
  "termsAndTransactionInfo": "VANTIV_TESTInfo",
  "usageCountLimit": 0,
  "isEnabled": true,
  "activationDate": "2022-05-06T09:42:46.000Z",
  "expirationDate": "2022-05-06T09:42:46.000Z"
}
```

3.4 Responses

HTTP Response Code	Response Body	Note
200	PaymentRequestDetail	Success
400	PaymentRequestListError	Input error
401	N/A	Authentication error
403	PaymentRequestListError	Authorization error
500	PaymentRequestListError	Server-side error

Example Response:

```
{
  "magTranID": "820dc1e5-5e0d-47b6-ae5a-dd0508d87aa9",
  "paymentRequestID": "046adde9-acc0-45d0-ae65-dd3e0472ded8",
  "paymentRequestMerchantID": 20,
  "paymentLink": null,
  "websocketToken": null,
  "definition": {
    "currentUsageCount": 0,
    "dateCreated": "2022-05-11T11:32:21.89Z",
    "transactionType": 1,
    "customerTranID": "St12345",
    "customerTranRef": "St123456",
  }
}
```

```
{
  "amount": 1.4,
  "taxAmount": 0.04,
  "taxPercent": 0,
  "additionalInfo": null,
  "miscData": "string",
  "processorName": "testInfo2",
  "promptForTax": true,
  "promptForTips": true,
  "termsAndTransactionInfo": "testInfoterms",
  "usageCountLimit": 0,
  "isEnabled": true,
  "activationDate": "2022-05-11T11:26:36.52Z",
  "expirationDate": "2022-05-11T11:26:36.52Z"
},
"status": 3,
"transactions": []
}
```

4 EndPoint: HTTP GET - /api/PaymentRequest/{id}

4.1 Summary

This is used to get the detail information of a Payment Request.

4.2 Query String Parameters

Payment Request ID is provided as part of the URI path, {id}.

4.3 Request Body

Request Body Definition:

```
{
  "magTranID": "string",
  "paymentRequestID": "string",
  "paymentRequestMerchantID": 0,
  "paymentLink": "string",
  "websocketToken": "string",
  "definition": {
    "transactionType": 1,
    "customerTranID": "string",
    "customerTranRef": "string",
    "amount": 0,
    "taxAmount": 0,
    "taxPercent": 0,
    "additionalInfo": [
      {
        "key": "string",
        "value": "string"
      }
    ],
    "miscData": "string",
    "processorName": "string",
  }
}
```

```
{
  "promptForTax": true,
  "promptForTips": true,
  "termsAndTransactionInfo": "string",
  "usageCountLimit": 0,
  "isEnabled": true,
  "activationDate": "2022-05-06T13:08:39.137Z",
  "expirationDate": "2022-05-06T13:08:39.137Z",
  "currentUsageCount": 0,
  "dateCreated": "2022-05-06T13:08:39.137Z"
},
{
  "status": 0,
  "transactions": [
    {
      "paymentRequestId": "string",
      "transactionId": "string",
      "transactionDate": "2022-05-06T13:08:39.137Z",
      "authorizedAmount": 0,
      "approved": true
    }
  ]
}
```

4.4 Responses

HTTP Response Code	Response Body	Note
200	PaymentRequestDetail	Success
400	PaymentRequestListError	Input error
401	N/A	Authentication error
403	PaymentRequestError	Authorization error
500	PaymentRequestError	Server-side error

Example Response:

```
{
  "magTranID": "11b8e33b-ac07-4614-9c98-cc98e145dc82",
  "paymentRequestID": "84bad434-f162-4ea8-af26-58a518c4a56c",
  "paymentRequestMerchantID": 20,
  "paymentLink":
    "https://paymentrequestgw.magensa.dev/mppgtouchless/mppg?token=84bad434-f162-4ea8-af26-58a518c4a56c&src=1",
  "websocketToken":
    "wss://magensapayment.webpubsub.azure.com/client/hubs/MagensaPaymentRequest?access_token=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiI4NGJhZDQzNC1mMTYyLTRlYTgtYWYyNi0lOGElMThjNGE1NmMiLCJuYmYiOiJlODNTIiwiaWF0IjoxNjY5MTYzLCJhdWQiOiJodHRwciovL2lhZ2
```

```
Vuc2FwYXltZW50Lnd1YnB1YnN1Yi5henVyZS5jb20vY2xpZW50L2h1YnMvTWFnZW5zYVZh
eW11bnRSZXF1ZXN0In0.Go4D-YIFvXH5GY319Yd_lsZlhJfPO5PZlZ9k2PxbGZA",
  "definition": {
    "currentUsageCount": 0,
    "dateCreated": "2022-03-30T10:41:41.803Z",
    "transactionType": 1,
    "customerTranID": "adfadsf",
    "customerTranRef": "adfad",
    "amount": 1,
    "taxAmount": 1,
    "taxPercent": 1,
    "additionalInfo": null,
    "miscData": "dfads",
    "processorName": "Jet Pay",
    "promptForTax": true,
    "promptForTips": true,
    "termsAndTransactionInfo": "sample conditions",
    "usageCountLimit": 30,
    "isEnabled": true,
    "activationDate": "2022-03-30T10:41:17.143Z",
    "expirationDate": "2022-05-29T10:41:17.143Z"
  },
  "status": 2,
  "transactions": []
}
```

5 EndPoint: HTTP PUT - /api/PaymentRequest/{id}

5.1 Summary

This is used to update an existing Payment Request.

E.g.: <https://devapp.magensa.dev/PaymentRequest/api/PaymentRequest/242e86f0-52d4-4137-bd56-b4d4d0e19586>

5.2 Query String Parameters

Payment Request ID is provided as part of the URI path, {id}.

5.3 Request Body

An instance of `PaymentRequestDefinition`.

```
{
  "transactionType": 1,
  "customerTranID": "string",
  "customerTranRef": "string",
  "amount": 0,
  "taxAmount": 0,
  "taxPercent": 0,
  "additionalInfo": [
    {

```

```
        "key": "string",
        "value": "string"
    }
],
"miscData": "string",
"processorName": "string",
"promptForTax": true,
"promptForTips": true,
"termsAndTransactionInfo": "string",
"usageCountLimit": 0,
"isEnabled": true,
"activationDate": "2022-05-06T10:57:47.179Z",
"expirationDate": "2022-05-06T10:57:47.179Z"
}
```

Example Instance Update request:

```
{
  "transactionType": 1,
  "customerTranID": "dsfadsf",
  "customerTranRef": "asdfasdfasctest2",
  "amount": 10,
  "taxAmount": 1,
  "taxPercent": 1,
  "additionalInfo": null,
  "miscData": "string",
  "processorName": "string",
  "promptForTax": true,
  "promptForTips": true,
  "termsAndTransactionInfo": "string",
  "usageCountLimit": 40,
  "isEnabled": true,
  "activationDate": "2022-04-21T23:05:01.743Z",
  "expirationDate": "2022-06-20T23:05:01.743Z"
}
```

Example Curl Request:

```
{
  "transactionType": 1,
  "customerTranID": "string",
  "customerTranRef": "string",
  "amount": 0,
  "taxAmount": 0,
  "taxPercent": 0,
  "additionalInfo": [
    {
      "key": "string",
      "value": "string"
    }
  ],
  "miscData": "string",
}
```



```
{
  "processorName": "string",
  "promptForTax": true,
  "promptForTips": true,
  "termsAndTransactionInfo": "string",
  "usageCountLimit": 0,
  "isEnabled": true,
  "activationDate": "2022-05-06T10:57:47.179Z",
  "expirationDate": "2022-05-06T10:57:47.179Z"
}
```

5.4 Responses

HTTP Response Code	Response Body	Note
200	PaymentRequestDetail	Success
400	PaymentRequestError	Input error
401	N/A	Authentication error
403	PaymentRequestError	Authorization error
500	PaymentRequestError	Server-side error

Example Response:

```
{
  "magTranID": "fb7fa811-d9f2-4151-bbee-35f4b0b7f25c",
  "paymentRequestID": "242e86f0-52d4-4137-bd56-b4d4d0e19586",
  "paymentRequestMerchantID": 20,
  "paymentLink":
    "https://paymentrequestgw.magensa.dev/mppgtouchless/mppg?token=242e86f0-52d4-4137-bd56-b4d4d0e19586&src=1",
  "websocketToken":
    "wss://magensapayment.webpubsub.azure.com/client/hubs/MagensaPaymentRequest?access_token=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiIyNDJlODZmMC01MmQ0LTQxMzctYmQ1Ni1lNGQ0ZDBlMTk1ODYiLCJuYmYiOiJlNTIyNzAxMzg5ImV4cCI6MTY1MjIzMDE5OCwiaWF0IjoxNjUyMjcwMTM4LDCJhdWQiOiJodHRwciovL2lhZW2Vuc2FwYXltZW50Lnd1YnBlYnN1Yi5henVyZS5jb20vY2xpZW50L2hlYnMvTWFfnZW5zYVBheW1lbnsRSZXFlZXR0Ln0.lPmGw_Ssp0fGOeMiT3BpCYy0Sfvsc4XBhMkXIu0cs_Y",
  "definition": {
    "currentUsageCount": 0,
    "dateCreated": "2022-04-21T09:05:22.6Z",
    "transactionType": 1,
    "customerTranID": "dsfadsf",
    "customerTranRef": "asdfasdfasdtest2",
    "amount": 10,
    "taxAmount": 1,
    "taxPercent": 1,
    "additionalInfo": null,

```

```
{
  "miscData": "string",
  "processorName": "string",
  "promptForTax": true,
  "promptForTips": true,
  "termsAndTransactionInfo": "string",
  "usageCountLimit": 40,
  "isEnabled": true,
  "activationDate": "2022-04-21T23:05:01.743Z",
  "expirationDate": "2022-06-20T23:05:01.743Z"
},
"status": 2,
"transactions": [
  {
    "paymentRequestId": "242e86f0-52d4-4137-bd56-b4d4d0e19586",
    "transactionId": "1c121656-4e29-4b4d-ad22-6ad1d3b531a9",
    "transactionDate": "2022-04-21T02:09:48",
    "authorizedAmount": 0,
    "approved": false
  }
]
}
```

6 Merchant's Integration Guide

To use the Payment Request API service, Merchants need to be onboarded first for the service. Once Onboarded, merchants will use the public APIs to create a new or update an existing Payment Request. The APIs also provide merchants capabilities to get a list of their existing Payment Requests based on search criteria and filters and get detailed information on a Payment Request based on the ID. From the details of the Payment Request, Merchants can send the provided payment link to their customer(s) or generate a QR code from the payment link for the customer to scan using mobile devices. Merchant can also use the provided web socket token to listen for the real-time status of the transaction(s) on the Payment Request.

6.1 Merchant Onboarding

Following information are required during onboarding process:

- Target MPPG CustomerCode
- Target MPPG Username
- Default Prompt for Tax
- Default Prompt for Tips
- Default Processor Name
- Default Terms and Transaction Information
- Company Name
- Log URL
- Primary Color
- Secondary Color
- Company Name Font Color

Target MPPG CustomerCode/Username must be existing MPPG credentials.

Default properties (Prompt for Tax, Prompt for Tips, Processor Name, Terms and Transaction Information) are used when those settings are not provided when a Payment Request is created. This provides an easy way for merchants to manage those settings so they don't have to provide it whenever a Payment Request is created, and still provides a way to override the settings.

6.2 Create A New Payment Request

To create a new Payment Request, use HTTP POST at /api/PaymentRequest.

Please note, the definition doesn't have to provide the default settings which are available on merchant's information setup during onboarding.

The PaymentRequestDetail will be returned as the response during creation.

6.3 Get a List of Existing Payment Requests

To get a list of existing Payment Requests, use HTTP GET at /api/PaymentRequest.

A list of PaymentRequestSummary will be returned along with a total number of Payment Requests for the provided date range. The total number can be used for pagination if needed.

6.4 Get the Detail of a Payment Request

To get the detail of a Payment Request (PaymentRequestDetail), merchants can use what's returned during the creation step. They can also use HTTP GET at `/api/PaymentRequest/{id}` where `{id}` is the Payment Request ID.

PaymentLink & WebsocketToken will be used in the following two steps as part of the returned detail.

6.5 Present Payment Link to Customer

PaymentLink is the URL that points to the MPPG hosted payment page to collect payment. Merchant can send the link to its customer or render a QR code for the customer to scan to pay.

6.6 Monitor Payment Status

Merchant can use the returned WebsocketToken to listen to the real-time transaction status. Whether there is a transaction, the merchant will receive TransactionSummary throw the web socket.

If the Payment Request is paid, the web socket will be automatically closed after the transaction response is posted.

7 Data Definitions

7.1 PaymentRequestSummaryListInfo

Property	Data Type	Description
MagTranID	String	Tracking ID
TotalRecordsAvailable	Integer	Total number of payment request for the given date range before pagination
Requests	List of PaymentRequestSummary	The list under current pagination
PaymentRequestID	String	The Identification of the PaymentRequest
TransactionType	PaymentRequest TransactionType	Currently only 1 for SALE
CustomerTranID	String	Value provided by client when Payment Request was created
CustomerTranRef	String	Value provided by client when Payment Request was created
Amount	Decimal	The amount
UsageCountLimit	Integer	Non-negative number for usage count limit. 0 for unlimited.
CurrentUsageCount	Integer	Non-negative number for the current number of successful transactions

Property	Data Type	Description
IsEnabled	Boolean	Flag to indicate when this Payment Request is enabled or not. Transaction can't be started for a disabled Payment Request.
DateCreated	DateTime	The date&time when the Payment Request was created
ActivationDate	DateTime	The time when the Payment Request can start receiving transactions
ExpirationDate	DateTime	The time when the Payment Request will stop receiving transactions
Status	PaymentRequestStatusEnum	The current status of the Payment Request.

7.2 PaymentRequestDefinition

Property	Data Type	Description
TransactionType	PaymentRequestTransactionType	Currently only 1 for SALE
CustomerTranID	String	Client-provided transaction ID. Length: 0~256
CustomerTranRef	String	Client-provided transaction reference. Length: 0~256.
Amount	Decimal	The amount, up to 2 decimal places.
TaxAmount	Decimal	The tax amount, up to 2 decimal places.
AdditionalInfo	KeyValuePair<string, string>[]	Optional additional info, as array of key-value pairs.
MiscData	String	Miscellaneous data. Length: 0~256.
ProcessorName	String	Optional processor name. Length: 0~128. If not provide or empty, the merchant's default processor name will be used.
PromptForTax	Boolean	Optional flag indicating whether to prompt for tax or not during payment collection process. If not provided, the merchant's default setting will be used.

Property	Data Type	Description
PromptForTips	Boolean	Optional flag indicating whether to prompt for tips or not during payment collection process. If not provided, the merchant's default setting will be used.
ActivationDate	DateTime	The time when the Payment Request can start receiving transactions. The time needs to be in ISO 8061 format.
ExpirationDate	DateTime	The time when the Payment Request will stop receiving transactions. The time needs to be in ISO 8061 format.

7.3 PaymentRequestDetail

Property	Data Type	Description
MagTranID	String	Tracing ID
PaymentRequestID	String	The identification of the Payment Request
PaymentRequestMerchantID	Integer	Merchant ID
PaymentLink	URL	The payment link that points to the hosted payment page
WebsocketToken	WSS URI	Websocket connection string. Merchant can listen to the transaction status in real time through this web socket connection. Once there is a transaction, the web socket will have a JSON response of type TransactonSummary.
Definition	PaymentRequestData	Payment Request detail information
Status	PaymentRequestStatusEnum	The current status of payment Request
Transactions	List of TransactionDetail	

7.4 PaymentRequestData

Property	Data Type	Description
TransactionType	PaymentRequestTransactionType	Currently only 1 for SALE

Property	Data Type	Description
CustomerTranID	String	Client-provided transaction ID. Length: 0~256.
CustomerTranRef	Integer	Client-provided transaction reference. Length: 0~256.
Amount	Decimal	The amount, up to 2 decimal places.
TaxAmount	Decimal	The tax amount, up to 2 decimal places.
TaxPercent	Decimal	The percent
AdditionalInfo	KeyValuePair<string,string>[]	Optional additional info, as array of key-value pairs.
MiscData	String	Miscellaneous data. Length: 0~256.
ProcessorName	String	Optional processor name. Length: 0~128. If not provide or empty, the merchant's default processor name will be used.
PromptForTax	Boolean	Optional flag indicating whether to prompt for tax or not during payment collection process. If not provided, the merchant's default setting will be used.
PromptForTips	Boolean	Optional flag indicating whether to prompt for tips or not during payment collection process. If not provided, the merchant's default setting will be used.
TermsAndTransactionInfo	String	Optional terms and transaction information. If not provided, the merchant's default setting will be used.
UsageCountLimit	Integer	Non-negative number for usage count limit. 0 for unlimited. Range: 0~2,147,483,647.
IsEnabled	Boolean	Flag to indicate when this Payment Request is enabled or not. Transaction can't be started for a disabled Payment Request

Property	Data Type	Description
ActivationDate	DateTime	The time when the Payment Request can start receiving transactions
ExpirationDate	DateTime	The time when the Payment Request will stop receiving transactions
CurrentUsageCount	Integer	Current count for successful transactions
DateCreated	DateTime	The time when the Payment Request was created

7.5 TransactionDetail

Property	Data Type	Description
PaymentRequestID	String	The Payment Request ID
TransactionId	String	MPPG Transaction ID
TransactionDate	DateTime	The time transaction was processed
AuthorizedAmount	Decimal	The authorized amount, if provided

7.6 PaymentRequestTransactionType

Item	Value
1	SALE

7.7 PaymentRequestStatusEnum

Status	Meaning	Description
0	Disabled	Flag isEnabled is set the false
1	Pending	It's enabled and not paid and activationDate is in the future
2	Active	It's enabled, not paid, and current time is between activationDate and expirationDate
3	Expired	It's enabled, not paid, and expirationDate is in the past

Status	Meaning	Description
4	Paid	It's enabled, usageCountLimit is larger than 0, and currentUsageCount is equal or larger than usageCountLimit

7.8 TransactionSummary

Property	Data Type	Description
TransactionResponse	String	The original response from MPPG Web Service of the transaction
Detail	TransactionDetail	The detail information of the transaction

7.9 TransactionDetail

Property	Data Type	Description
PaymentRequestId	String	The Payment Request ID
TransactionId	String	MPPG Transaction ID
TransactionDate	DateTime	The time when the transaction happened
AuthorizedAmount	Decimal	The authorized amount, if provided. Otherwise null.
Approved	Boolean	True if approved, false otherwise

7.10 PaymentRequestListError

Property	Data Type	Description
MagTranID	String	Tracking ID
Code	PaymentRequestErrorCode	Error code
Message	String	Error message

7.11 PaymentRequestError

Property	Data Type	Description
MagTranID	String	Tracking ID
Code	PaymentRequestErrorCode	Error code
Message	String	Error message
PaymentRequestID	String	The related Payment Request ID

7.12 PaymentRequestErrorCode

Error Code	Description
40010	Input format error
40011	Invalid Start Date
40012	Invalid End Date
40013	Start Date can't be later than End Date
40014	Invalid Page Size
40015	Invalid Page Number
40016	Invalid Page Size Or Number
40017	Invalid Payment Request status
40018	Invalid Payment Request ID
40019	Invalid Payment Request definition
40020	Invalid transaction type
40021	Invalid usage count limit
40022	Invalid expiration date
40023	Invalid amount
40024	Invalid tax amount
40025	Invalid MPPG MagTranGUID
40026	Invalid customerTranID
40027	Invalid customerTranRef
40028	Invalid processorName
40029	Invalid termsAndTransactionInfo
40030	Invalid miscData
40100	Authentication Error
40300	Authorization Error
50000	Internal Server Error
50001	Target user is not setup for MPPG

8 Technical Specifications

Appendix A Technical Specifications