

QR Payment API Documentation

1.1.0

PT. MITRA TRANSAKSI INDONESIA

Preface

This API documentation provides a documentation of the messaging requirements of project entitled “QR Payment” to support the intended business area needs. The requirements will be based on the scope agreed in the *Business Requirements Document (BRD)*. This document will serve as a baseline for the subsequent development activities such as design, development, and testing phase across the project lifecycle.

This document is not suitable for audience who wish to understand the functional aspects of the project.

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Revisions

Version	Date	Author	Change Summary
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1. Introduction

1.1. Document Overview

This document provides message specification for merchant, token requestors, or any entities who may be interested in QR Program. This document contains API requests, data fields descriptions, and sample messages for both request and response actions.

There are four main entities who are involved in *QR Payment* Program, which is listed in the table below:

Table 1. Entities in QR Payment

No.	Entity Name	Description
1	<i>Merchant</i>	An entity who provides goods and/or services for customers. Merchant is also involved during purchase transactions.
2	<i>Acquirer</i>	The institution that controls the terminal and the acquiring system is usually responsible for the merchant's acquisition.
3	<i>Issuer App</i>	Application used by consumers to publish QR Codes which will later be scanned by merchants.
4	<i>Issuer</i>	Institutions that issue payment accounts / payment cards (if card-based transactions) for which this institution is also responsible for transaction authorization.
5	<i>Switching</i>	The institution responsible for interconnection between the issuer system and the acquirer system.

1.2. Audience

This document is intended as a technical reference during implementation, and hence more suitable to technical audience

1.3. Global Parameters

This document contains global variables, indicated with the term **[globalVariable]**. The following list summarizes the global parameters used in this document:

Table 2. Global parameters of the QR product

No.	Variable Name	Description	Value
1	URL	Universal resource locator for the APIs	DEV: https://dev.yokke.co.id:7778/ TEST: https://tst.yokke.co.id:7778/ PROD: https://api.yokke.co.id:7778/

1.4. Terms

The list below contains all the terms, acronyms, or phrases used in this document:

Table 3. Terms used in this document

No.	Variable Name	Description
1	R	Stands for required in data field description.
2	C	Stands for conditional in data field description.
3	O	Stands for optional in data field description.

2. Field Descriptions

This section contains description of each field used in the request and response messages. This section also contains constants used in the certain fields. Some special characters that are not allowed in every request or response message include <, >, `, ' , and %.

2.1. Header Fields

No.	Name	Data Type	Data Length	Description
1	<i>Content-Type</i>	STRING	16	The type of the HTTP body content. It is always application/json.
2	<i>Content-Length</i>	NUMBER		Length of the content.
3	<i>Authorization</i>	STRING	N/A	A field to contain bearer token or basic auth.
4	<i>X-TIMESTAMP</i>		25	DateTime with timezone, which follows the ISO-8601 standard. For example: 2021-04-19T08:27:11.222+07:00
5	<i>X-SIGNATURE</i>	STRING	N/A	To verify the contents / body of JSON messages to avoid changing (tempering) messages.
6	X-EXTERNAL-ID	String	15	Numeric String, Reference number that should be unique in the same day
7	<i>X-PARTNER-ID</i>	STRING	32	An identifier to uniquely identify the token requestor. For example: "MTI-STORE"
8	CHANNEL-ID	String	2	PJP's channel id Device identification on which the API services is currently being accessed by the end user (customer). 01 : EDC 02 : POS

2.2. Request Body Fields

No.	Name	Data Type	Data Length	Description
1	<i>merchantId</i>	STRING	15	This field is a 15-digit merchant identifier that is unique per each merchant. The exact value is

				disclosed to each merchant separately. Padding left 0. Example: 00007100010926.
2	<i>terminalId</i>	STRING	8	This field contains an identifier that is unique per each merchant. The exact value is disclosed to each merchant separately. Example: 72001126.
3	partnerReferenceNo	STRING	20	Transaction identifier on service consumer system
4	originalReferenceNo	STRING	12	Original transaction identifier on service provider system
5	ServiceCode	STRING	2	Transaction type indicator(service code of the original transaction request)
6	latestTransactionStatus	STRING	M	00 - Success 01 - Initiated 02 - Paying 03 - Pending 04 - Refunded 05 - Canceled 06 - Failed 07 - Not found
7	transactionStatusDesc	STRING	50	Description status transaction
8	<i>amount</i>	JSON OBJECT	12,2 (value) 3 (currency)	The field is used during purchase request. For example: Rp 100.000,00 is formatted into: { "value" : "100000.00", "currency": "IDR" }.
9	<i>feeAmount</i>	JSON OBJECT	12,2 (value) 3 (currency)	The field is used during purchase request. For example: Rp 100.000,00 is formatted into: { "value" : "100000.00", "currency": "IDR" }.
12	<i>reason</i>	STRING	99	This field is used to fill the cancellationReason
13	customerNumber	STRING	19	Merchant Primary Account Number for transaction. Values produced by Host
14	destinationNumber	STRING	19	Customer Primary Account Number for transaction. Values produced by Issuer
15	bankCode	STRING	8	Bank code
16	ServiceCode	STRING	2	Transaction type indicator(service code of the original transaction request)
17	<i>additionalInfo</i>	JSON OBJECT	N/A	A JSON body which includes the original transaction. The structure of origin
18	grant_type	STRING		"client_credentials" : The client can request an access token using only its client credentials (or other supported means of authentication) when the client

				is requesting access to the protected resources under its control (OAuth 2.0: RFC 6749 & 6750)
--	--	--	--	--

2.3. Response Body Fields

The following list describes each field which may present in a response message:

No.	Name	Data Type	Data Length	Description
1	accessToken	STRING		A string representing an authorization issued to the client that used to access protected resources
2	tokenType	STRING		The access token type provides the client with the information required to successfully utilize the access token to make a protected resource request (along with type-specific attributes) Token Type Value: <ul style="list-style-type: none"> • “Bearer”: includes the access token string in the request • “Mac”: issuing a Message Authentication Code (MAC) key together with the access token that is used to sign certain components of the HTTP requests Reference: OAuth2.0 RFC 6749 & 6750
3	expiresIn	STRING		Session expiry in seconds: 900 (15 menit)
4	responseCode	STRING	7	This field describes the response from MTI. The list of response codes and its messages are shown in 2.4.2. Response Code
5	responseMessage	STRING	99	This field describes the response message from MTI. The list of response codes and its messages is shown in 2.4.2. Response Code .
6	referenceNo	STRING	12	Transaction identifier on service provider system. Must be filled upon successful transaction
7	partnerReferenceNo	STRING	20	Transaction identifier on service consumer system
8	qrContent	STRING	512	QR String MPM
9	merchantId	STRING	15	This field is a 15-digit merchant identifier that is unique per each merchant. The exact value is disclosed to each merchant separately. Padding left 0. Example: 00007100010926.
10	terminalId	STRING	8	This field contains an identifier that is unique per each merchant. The exact value is disclosed to each merchant separately. Example: 72001126.
11	originalReferenceNo	STRING	12	Transaction identifier on service provider system. Must be filled upon successful transaction
12	originalPartnerReferenceNo	STRING	20	Transaction identifier on service consumer system

13	originalExternalId	STRING	32	Original External-ID on header message
14	latestTransactionStatus	STRING	2	00 - Success 01 - Initiated 02 - Paying 03 - Pending 04 - Refunded 05 - Canceled 06 - Failed 07 - Not found
15	transactionStatusDesc	STRING	50	Description status transaction
16	<i>amount</i>	STRING	12,2 (value) 3 (currency)	The field is used during generate QR request. For example: Rp 100.000,00 is formatted into: { "value": "100000.00", "currency": "IDR" }.
17	<i>feeAmount</i>	STRING	12,2 (value) 3 (currency)	The field is used during generate QR request. For example: Rp 10.000,00 is formatted into: { "value": "10000.00", "currency": "IDR" }.
19	ServiceCode	STRING	2	Transaction type indicator(service code of the original transaction request)
20	reason	STRING	256	Cancellation reason
21	<i>merchantCity</i>	STRING	50	Merchant City
22	<i>additionalInfo</i>	JSON OBJECT	N/A	A JSON body which includes the original transaction. The structure of origin

2.4. Detailed Descriptions

2.4.1. Signature

The signature used in Header of each request and response message. To generate signature, we use get the request/response body and calculate it using HMAC_SHA512 with detail format as bellow :

Symetric-Signature = base64(HMAC_SHA512 (\$ClientSecret, stringToSign))

stringToSign = HTTPMethod+"."+EndpointUrl"+"AccessToken+"."+Lowercase(SHA256(minify(RequestBody)))+
"."+TimeStamp

- **ClientSecret** : Will be informed separately for each merchant
- **HTTPMethod** : POST/GET
- **EndpointUrl** : Origin URL Access
- **AccessToken** : Represents Bearer access token of request header

- **RequestBody** : Represents real request body of transaction
- **TimeStamp** : Represents real X-TIMESTAMP of request header

Example step-by-step:

- **ClientSecret** : *mBSytcvaYN8XkUrneWPLxhqG7b3pMg2HaVaaaeGZnafZ*
- **HTTPMethod** : POST
- **EndpointUrl** : /v2.0/qr/qr-mpm-generate
- **AccessToken** :
eyJraWQiOiJzc29zliwiYWxnIjoiUIM1MTIifQ.eyJzdWIiOiJpMGY4MDUzZS1kMTg3LTQ0ZWltYmM1NC1iOWE3YzQzYzU2MTgiLCJhdWQiOm51bGwslm5iZil6MTcwOTc3ODA1MiwiaXNzIjoiSldUTVRJliwiZXhwIjoxNzA5ODE0MDUyLCJpYXQiOiJlE3MDk3NzgwNTJ9.g0FyC39fAcCe_23aT68dXjVgH5mfMK4k2hNn3XpHpHGFSLEGQP_YZOvqviHOQQgYbiFaljM9iYeiYv2r9MDjYUIdkpcjigeTSgXNvtDcA3jqDz78aOgOpYj1Lv5W8oIvS7VofeFs9X7fIU2JRVB77_H_azMFuJtG1dmpYKVQTP6s1hPFrrrAd-4l2aipJI4skB_7ehxiJS17G2xQEiKEds1GZrhnb0pO94PiBaDeqmVtr9ThQqYlupew7dP2YzlemJuWg9dqZ7CdJCrlhw-Grm-fsYw686CpvrGJKuibup2vRTn4lyqRS19AVePKaJiYVH_x1upzz87J-u2VTQd2Uw
- **RequestBody** :
{"partnerReferenceNo":"22111029000000003108","amount":{"value":"10000.00","currency":"IDR"},"feeAmount":{"value":"0.00","currency":"IDR"},"merchantId":"000071000247508","terminalId":"73003514"}
- **TimeStamp** : 2024-03-07T09:21:46+07:00

Lowercase(SHA256(minify(**RequestBody**))) :

56698e3d920273e0c18478cf04c0711bfc9cd4f6642f0dd95e3dfd99b15fabf0

stringToSign = POST:/v2.0/qr/qr-mpm-

generate:eyJraWQiOiJzc29zliwiYWxnIjoiUIM1MTIifQ.eyJzdWIiOiJpMGY4MDUzZS1kMTg3LTQ0ZWltYmM1NC1iOWE3YzQzYzU2MTgiLCJhdWQiOm51bGwslm5iZil6MTcwOTc3ODA1MiwiaXNzIjoiSldUTVRJliwiZXhwIjoxNzA5ODE0MDUyLCJpYXQiOiJlE3MDk3NzgwNTJ9.g0FyC39fAcCe_23aT68dXjVgH5mfMK4k2hNn3XpHpHGFSLEGQP_YZOvqviHOQQgYbiFaljM9iYeiYv2r9MDjYUIdkpcjigeTSgXNvtDcA3jqDz78aOgOpYj1Lv5W8oIvS7VofeFs9X7fIU2JRVB77_H_azMFuJtG1dmpYKVQTP6s1hPFrrrAd-4l2aipJI4skB_7ehxiJS17G2xQEiKEds1GZrhnb0pO94PiBaDeqmVtr9ThQqYlupew7dP2YzlemJuWg9dqZ7CdJCrlhw-Grm-fsYw686CpvrGJKuibup2vRTn4lyqRS19AVePKaJiYVH_x1upzz87J-u2VTQd2Uw:56698e3d920273e0c18478cf04c0711bfc9cd4f6642f0dd95e3dfd99b15fabf0:2024-03-07T09:21:46+07:00

HMAC_SHA512(*mBSytcvaYN8XkUrneWPLxhqG7b3pMg2HaVaaaeGZnafZ*, **stringToSign**) =

3fa385ca2381b9ceee725fb6dca7eb279beec956acc8d4e80d05a9ceabe17c0ee22e84f1f76cd933822d8b35b462bd85638d213f78efb6be5ff3406da3372983

Base64() = P6OFyiOBuc7ucl+23KfrJ5vuyVasyNToDQWpzqvhfA7iLoTx92zM4ItizW0Yr2FY40hP3jvtr5f80Btozcpgw==

2.4.2. Response Code

The following is a list of valid response codes for using QR Payment based on REST:

Table 4. Response Code Categories

HTTP Code	Reason Code	Description
-----------	-------------	-------------

200	00	Sukses
401	02	Unauthorized Signature
404	03	Invalid Merchant
403	05	Do Not Honor
500	06	General Error
404	12	Invalid Transaction Status
404	13	Invalid Amount
400	30	Bad Request
403	51	Insufficient Funds
403	54	Transaction Expired
403	57	QR Invalid/Expired
403	59	Suspected Fraud
403	61	Exceeds Transaction Amount Limit
504	68	Timeout
504	90	Timeout
404	94	Paid Bill
400	99	Invalid Mandatory Field
404	A5	Invalid Terminal
403	A6	Merchant Blacklisted
403	A7	Feature Not Allowed
404	AG	Transaction Not Found
404	AH	Transaction Cancelled
404	D1	Inconsistent Request
409	D2	Cannot use same X-EXTERNAL-ID in same day

3. Application Program Interfaces

3.1. Introduction

This section describes a detailed description of the APIs introduced in Direct Debit program. It includes explanations of the API, HTTP properties, request and response parameters, and examples.

Table 5. Summary of APIs described in this document

No.	API Name	Description
QRIS MPM (Merchant Presented Mode)		
1	QR Generation	This API is used to generate QRIS
2	QR Payment Credit Cancel	This API is used to cancel od QR Payment Credit
3	QR Check Status	This API is used to check status of QR Payment Credit
4	QR Payment Credit Notify	This API is used to payment notification to merchant

3.2. Get Authentication Token

3.2.1. Description

This API is a mechanism to get HTTP-Header token (also known as JSON Web Token - JWT) that is used for authentication and signing the REST payload sent to server. The HTTP GET request does not contain any HTTP body.

The JWT **expires** in 15 minutes. If expiration occurs, the requestor must request new token. API request without token, or with an expired token, will be rejected.

3.2.2. Properties

URL	[URL]/qr/v2.0/access-token/b2b
Communication Type	Synchronous
Protocol	HTTPS
METHOD	POST
Charset	UTF-8
Authorization method	No auth

3.2.3. Request Parameters

JSON Header				
No.	Field Name	R/C/O	Length	Description
1	Content-Type	R		String represents indicate the media type of the resource (e.g. application/json, application/pdf)

2	X-TIMESTAMP	R		Client's current local time in yyyy-MM- ddTHH:mm:ss.SSSTZD format. ± 5 minutes from server time
3	X-CLIENT-KEY	R		\$Username (given at completion registration process)
4	X-SIGNATURE	R		on-Repudiation & Integrity checking X-SIGNATURE : with asymmetric algorithm SHA256withRSA (Private_Key, stringToSign). stringToSign = X-CLIENT-KEY + " " + XTIMESTAMP

3.2.4. Request Examples

Username: 64e67320-7f58-48a9-9196-1d2cdff30fb2

Private_Key: provide by merchant.

Get Java Token example: Request Header

```
{
  "Content-type":"application/json",
  "X-TIMESTAMP":"2022-01-10T07:05:00+07:00",
  "X-CLIENT-Key":"64e67320-7f58-48a9-9196-1d2cdff30fb2",
  "X-SIGNATURE":
  "dbeadda15c0e89834d635b0e727e36fe34dc61ab497a869dcfac3a71c916612a948e786
  fafba2043bd5cf44744e9079ee0a74707f1585ca521e7686b9cbd2397"
}
```

Get Authentication Token example: Request Body

```
{
  "grantType":"client_credentials"
}
```

3.2.5. Response Parameters

JSON Header			
No	Field Name	R/C/O	Description
1	X-TIMESTAMP	R	Client's current local time in yyyy-MM- ddTHH:mm:ss.+TZD format
2	X-CLIENT- KEY	R	\$Username (given at completion registration process)

JSON Body				
No.	Field Name	R/C/O	Length	Description
1	<i>responseCode</i>	R	7	Response code from MTI
2	<i>responseMessage</i>	R	99	This field describes the response message from MTI. The list of response codes and its messages is shown above.
3	<i>accessToken</i>	R	N/A	Generated JWT Token
4	<i>tokenType</i>	R	6	Token type
5	<i>expiresIn</i>	R	N/A	Session expiry - Life time of Access Token in seconds

3.2.6. Response Examples

JSON Header

```
{
  "X-TIMESTAMP":"2022-01-10T07:05:00+07:00",
  "X-CLIENT-Key":"64e67320-7f58-48a9-9196-1d2cdff30fb2"
}
```

JSON Body

```
{
  "responseCode": "2007300",
  "responseMessage": "Successful",
  "accessToken":
"eyJraWQiOiJzc29zIiwiaWFnIjoiU1M1MTIifQ.eyJzdWIiOiJjMGY4MDUzZS1kMTg3LTQ0ZWItYmM1NC1iOWE3YzQzYzU2MTgiLCJhdWQiOiOm5lbGwsIm5iZiI6MTcwOTc3ODAwMTiwiXNzIjoiSldUTVRJIiwiaXhwIjoxNzA5ODE0MDUyLCJpYXQiOiE3MDk3NzgwNTJ9.g0FyC39fAcCe_23aT68dXjVgH5mfMK4k2hNn3XpHpHGFSLEGQP_YZ0vqviHOQqgYbiFaIjM9iYeiYv2r9MDjYUIdkpcjigeTSgXNvtDcA3jqDz78a0g0pYj1Lv5W8oIvS7VofeFs9X7fIU2JRvB77_H_azMFuJtG1dmpYKVQTP6s1hPFrrrAd-4l2aipJI4skB_7ehxiJS17G2xQEiKEds1GZrhnb0p094PiBaDeqmVtr9ThQqYIupew7dP2YzlemJuWg9dqZ7CdJCrlhw-Grm-fsYw686CpvrGJKuibup2vRTn4lyqRS19AVePKaJiYVH_x1upzz87J-u2VTQd2Uw",
  "tokenType": "Bearer",
  "expiresIn": "900"
}
```


3.3. QR Generation (MPM)

3.3.1. Description

This API used to request QR generation.

3.3.2. Flow

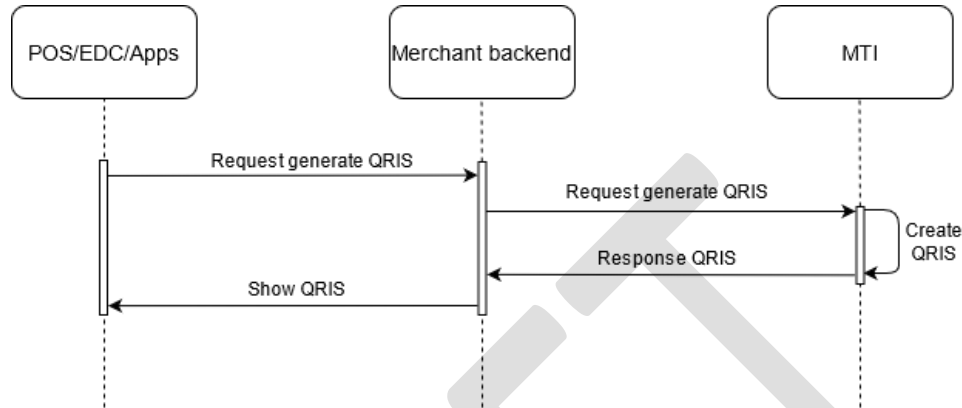


Figure 1. QR Generation flow

3.3.3. Properties

Service Code	47
URL	[URL]/v2.0/qr/qr-mpm-generate
Communication Type	Synchronous
Protocol	HTTPS
METHOD	POST

3.3.4. Request Parameters

JSON Header				
No.	Field Name	R/C/O	Length	Description
1	Content-Type	R		String represents indicate the media type of the resource (e.g. application/json, application/pdf)
2	Authorization	R		Represents access_token of a request; string starts with keyword "Bearer " followed by access_token (e.g. Bearer eyJraWQiOi...Jzc29zliwiY)
3	X-TIMESTAMP	R		Client's current local time in yyyy-MM-ddTHH:mm:ss.SSSTZD format
4	X-SIGNATURE	R		Please see in section 2.4.1
5	X-EXTERNAL-ID	R	15	Numeric String, Reference number that should be unique in the same
6	X-PARTNER-ID	R	36	An identifier to uniquely identify the token requestor. For example: "MTI-STORE"

7	CHANNEL-ID	R	2	PJP's channel id Device identification on which the API services is currently being accessed by the end user (customer)
---	------------	---	---	--

JSON Body				
JSON Type	Field Name	R/C/O	Length	Remark
String	<i>merchantId</i>	R	15	Merchant identifier. Unique per merchant. Padding left 0. Example: 00007100010926.
String	<i>terminalId</i>	R	8	Terminal identifier. Unique per merchant. i.e. 72001126.
String	<i>partnerReferenceNo</i>	R	20	Transaction identifier on service consumer system
JSON object.	<i>amount</i>	R	12,2 (value) 3 (currency)	The field is used during purchase request. For example: Rp 100.000,00 is formatted into: { "value": "100000.00", "currency": "IDR" }
JSON object.	<i>feeAmount</i>	O	12,2 (value) 3 (currency)	The field is used during purchase request. For example: Rp 100.000,00 is formatted into: { "value": "100000.00", "currency": "IDR" }
JSON object.	<i>additionalInfo</i>	R	N/A	Additional information

3.3.5. Request Example

JSON additionalInfo				
JSON Type	Field Name	R/C/O	Length	Remark
String	<i>memberBank</i>	O	3	Acquirer Banking company code.

3.3.6. Request Example

```
{
  "merchantId": "00007100010926",
  "terminalId": "72001126",
  "partnerReferenceNo": 230218123798000,
  "amount ":
  {
    "value" : "100000.00",
    "currency": "IDR"
  },
  "feeAmount":
  {
    "value" : "100000.00",
    "currency": "IDR"
  }
  "additionalInfo": {
    "memberBank": "999"
  }
}
```

3.3.7. Response Parameters

JSON Header				
No.	Field Name	R/C/O	Length	Description
1	<i>Content-Type</i>	R	16	Content type, i.e. <i>application/json</i> .
2	<i>X-TIMESTAMP</i>	R	25	± 5 minutes from server time
3	<i>X-SIGNATURE</i>	R	N/A	Result of HMAC calculation(see in 2.4.1)
4	<i>X-EXTERNAL-ID</i>	R	15	Numeric String, Reference number that should be unique in the same day
5	<i>X-PARTNER-ID</i>	R	36	An identifier to uniquely identify the token requestor. For example: "MTI-STORE"

JSON Body				
JSON Type	Field Name	R/C/O	Length	Remark
String	<i>responseCode</i>	R	7	Response code from MTI
String	<i>responseMessage</i>	R	99	This field describes the response message from MTI. The list of response codes and its messages is shown above.

String	referenceNo	C	12	Transaction identifier on service provider system. Must be filled upon successful transaction
String	partnerReferenceNo	O	20	Transaction identifier on service consumer system
String	qrContent	R	N/A	Byte array of QR image in String.
String	terminalId	O	8	Terminal identifier. Unique per merchant. i.e. 72001126.
Object	additionalInfo	O		Additional Information

JSON additionalInfo				
JSON Type	Field Name	R/C/O	Length	Remark
String	merchantId	R	15	Merchant identifier. Unique per merchant. Padding left 0. Example: 00007100010926.

3.3.8. Response Example

```
{
  "responseCode": "2004700",
  "responseMessage": "Successful",
  "referenceNo": "908718002198",
  "partnerReferenceNo": "230218123798000",
  "terminalId": "72001126",
  "qrContent":
  "00020101021226690021ID.CO.BANKAAAAAAA.WWW01189360000801000237320211710002373250303UBE52041
  5205303360403100550202560115802ID5912QRIS CPM DEV6013Jakarta
  Pusat610510710622807087300320250121123161721826304BAD7"
  "additionalInfo": {
    "merchantId": "00007100010926"
  }
}
```

3.4. QR Inquiry Status (MPM)

3.4.1. Description

This API is used to inquiry status payment credit.

3.4.2. Flow

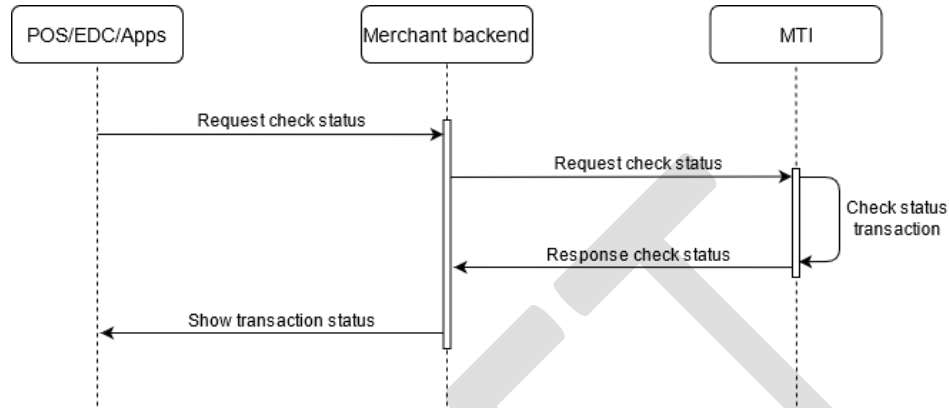


Figure 2. Inquiry transaction status flow

3.4.3. Properties

Service Code	51
URL	[URL]/v3.0/qr/qr-mpm-query
Communication Type	Synchronous
Protocol	HTTPS
METHOD	POST

3.4.4. Request Parameters

JSON Header				
No.	Field Name	R/C/O	Length	Description
1	Content-Type	R		String represents indicate the media type of the resource (e.g. application/json, application/pdf)
2	Authorization	R		Represents access_token of a request; string starts with keyword "Bearer " followed by access_token (e.g. Bearer eyJraWQiOi...Jzc29zliwiY)
3	X-TIMESTAMP	R		Client's current local time in yyyy-MM-ddTHH:mm:ss.SSSTZD format
4	X-SIGNATURE	R		Please see in section 2.4.1
5	X-EXTERNAL-ID	R	15	Numeric String, Reference number that should be unique in the same day
6	X-PARTNER-ID	R	36	An identifier to uniquely identify the token requestor. For example: "MTI-STORE"

7	CHANNEL-ID	R	2	PJP's channel id Device identification on which the API services is currently being accessed by the end user (customer)
---	------------	---	---	--

JSON Body				
JSON Type	Field Name	R/C/O	Length	Remark
String	originalReferenceNo	R	12	Original transaction identifier on service provider system
String	originalExternalId	R	15	Original External-ID on header message
String	serviceCode	R	2	Transaction type indicator(service code of the original transaction request). Default value with 47
String	merchantId	R	15	Merchant identifier. Unique per merchant. Padding left 0. Example: 00007100010926.
JSON object.	additionalInfo	R	N/A	A JSON body which includes the original transaction. The structure of origin

JSON additionalInfo				
JSON Type	Field Name	R/C/O	Length	Remark
String	originalTransactionDate	R	8	Original transaction Date. Format YYYYMMDD
String	terminalId	R	8	Terminal identifier. Unique per merchant. i.e. 72001126.
String	memberBank	O	3	Acquirer Banking company code.

3.4.5. Request Example

```
{
  "originalReferenceNo": "506511669691",
  "originalExternalId": "BPRLEXTRNL00048",
  "serviceCode": "47",
  "merchantId": "000071000026521",
  "additionalInfo":
    {
      "originalTransactionDate": "20250306",
      "terminalId": "73001500",
      "memberBank": "999"
    }
}
```

```
}

```

3.4.6. Response Parameters

JSON Header				
No.	Field Name	R/C/O	Length	Description
1	<i>Content-Type</i>	R	16	Content type, i.e. <i>application/json</i> .
2	<i>X-TIMESTAMP</i>	R	25	± 5 minutes from server time
3	<i>X-SIGNATURE</i>	R	N/A	Result of HMAC calculation(see in 2.4.1)
4	<i>X-EXTERNAL-ID</i>	R	15	Numeric String, Reference number that should be unique in the same day
5	<i>X-PARTNER-ID</i>	R	36	An identifier to uniquely identify the token requestor. For example: "MTI-STORE"

JSON Body				
JSON Type	Field Name	R/C/O	Length	Remark
String	<i>responseCode</i>	R	7	Response code from MTI.
String	<i>responseMessage</i>	R	99	This field describes the response message from MTI. The list of response codes and its messages is shown above.
String	<i>originalReferenceNo</i>	R	12	Transaction identifier on service provider system. Must be filled upon successful transaction
String	<i>originalExternalId</i>	R	32	Original External-ID on header message
String	<i>serviceCode</i>	R	2	Transaction type indicator(service code of the original transaction request)
String	<i>latestTransactionStatus</i>	M	2	00 - Success 01 - Initiated 02 - Paying 03 - Pending 04 - Refunded 05 - Canceled 06 - Failed 07 - Not found
String	<i>transactionStatusDesc</i>	M	99	00 - Success 01 - Initiated 02 - Paying

				03 - Pending 04 - Refunded 05 - Canceled 06 - Failed 07 - Not found
String	paidTime	C	25	Transaction date : ISO 8601 yyyy-MM-dd'T'HH:mm:ss Must be filled upon successful original transaction.
JSON object.	amount	R	12,2 (value) 3 (currency)	The field is used during purchase request. For example: Rp 100.000,00 is formatted into: { "value": "100000.00", "currency": "IDR" }
JSON object.	feeAmount	O	12,2 (value) 3 (currency)	The field is used during purchase request. For example: Rp 100.000,00 is formatted into: { "value": "100000.00", "currency": "IDR" }
String	terminalId	R	8	Terminal identifier. Unique per merchant. i.e. 72001126.
JSON Object	additionalInfo	O		Additional Information

JSON additionalInfo				
JSON Type	Field Name	R/C/O	Length	Remark
String	merchantId	R	15	Merchant identifier. Unique per merchant. Padding left 0. Example: 00007100010926.
String	approvalCode	O	6	Approval code of the transaction. Values produced by Issuer.
String	merchantPAN	O	19	Merchant Primary Account Number for transaction. Values produced by Host
String	customerNumber	O	19	Customer Primary Account Number for transaction. Values produced by Issuer
String	destinationNumber	O	19	Merchant Primary Account Number for transaction. Values produced by Host
String	bankCode	O	3	Acquirer Bank Code.
String	issuerName	O	10	Issuer Name Transaction

String	<i>issuerReferenceID</i>	O	20	issuerReferenceID shall contain only numeric. Values produced by Issuer. For example "23021812379800".
String	<i>customerName</i>	O	30	Customer name from issuing

3.4.7. Response Example

```
{
  "responseCode": "2005100",
  "responseMessage": "Successful",
  "originalReferenceNo": "506511669694",
  "originalExternalId": "BPRLEXTRNL00048",
  "serviceCode": "47",
  "latestTransactionStatus": "00",
  "transactionStatusDesc": "Success",
  "terminalId": "73001500",
  "paidTime": "2025-03-06T11:48:27",
  "amount": {
    "value": "1042.00",
    "currency": "IDR"
  },
  "feeAmount": {
    "value": "0.00",
    "currency": "IDR"
  },
  "additionalInfo": {
    "merchantId": "000071000026521",
    "approvalCode": "222423",
    "customerNumber": "936000080100023743",
    "destinationNumber": "9360000812138965527",
    "customerName": "Hevyka",
    "bankCode": "999",
    "issuerName": "Anonyms",
    "issuerReferenceID": "000110000023"
  }
}
```

3.5. QR Payment Credit Cancel (MPM)

3.5.1. Description

This API requests to cancel/refund a previous success purchase by using certain keys of original transaction include approval code. Cancel/Refund can be used for same day transaction or next day until maximum days of cancel/refund. Cancel/Refund must only be generated manually from merchant (e. g. merchant back office).

3.5.2. Flow

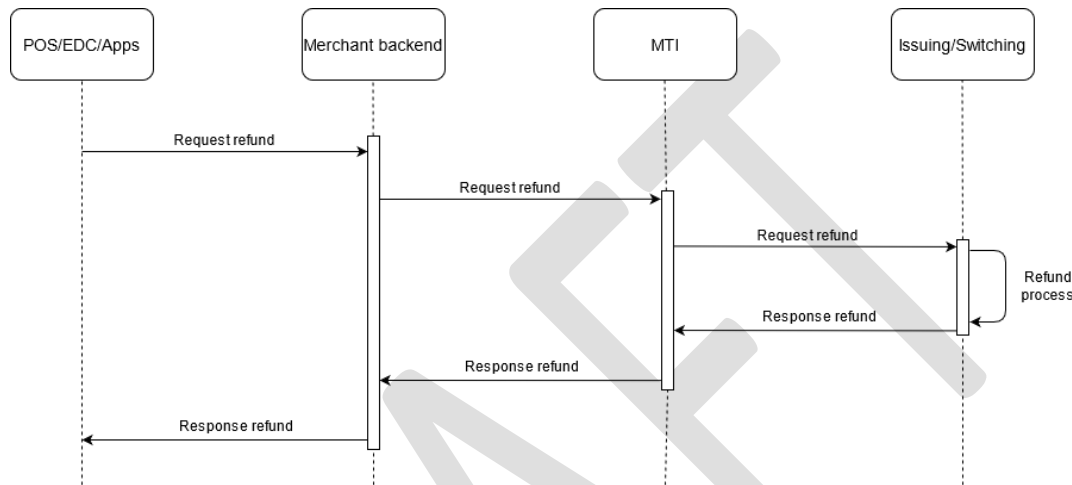


Figure 3. Cancel flow

3.5.3. Properties

Service Code	77
URL	[URL]/v3.0/qr/qr-mpm-cancel
Communication Type	Synchronous
Protocol	HTTPS
METHOD	POST

3.5.4. Request Parameters

JSON Header				
No.	Field Name	R/C/O	Length	Description
1	Content-Type	R		String represents indicate the media type of the resource (e.g. application/json, application/pdf)
2	Authorization	R		Represents access_token of a request; string starts with keyword "Bearer " followed by access_token (e.g. Bearer eyJraWQiOi...Jzc29zliwiY)
3	X-TIMESTAMP	R		Client's current local time in yyyy-MM-ddTHH:mm:ss.SSSTZD format

4	X-SIGNATURE	R		Please see in section 2.4.1
5	X-EXTERNAL-ID	R	15	Numeric String, Reference number that should be unique in the same day
6	X-PARTNER-ID	R	36	An identifier to uniquely identify the token requestor. For example: "MTI-STORE"
7	CHANNEL-ID	R	2	PJP's channel id Device identification on which the API services is currently being accessed by the end user (customer)

JSON Body				
JSON Type	Field Name	R/C/O	Length	Remark
String	originalReferenceNo	R	12	Original transaction identifier on service provider system
String	originalPartnerReferenceNo	R	20	Transaction identifier on service consumer system
String	originalExternalId	R	32	Original External-Id on header message
String	<i>merchantId</i>	R	15	Merchant identifier. Unique per merchant. Padding left 0. Example: 00007100010926.
String	<i>reason</i>	M	99	This field is used to fill the cancellationReason
JSON object.	<i>amount</i>	R	12,2 (value) 3 (currency)	The field is used during purchase request. For example: Rp 100.000,00 is formatted into: { "value":"100000.00", "currency":"IDR" }.
JSON object.	<i>additionalInfo</i>	R	N/A	Additional information

JSON Origin				
JSON Type	Field Name	R/C/O	Length	Remark
String	<i>originalTransactionDate</i>	R	8	Original transaction Date. Format YYYYMMDD
String	<i>terminalId</i>	R	8	Terminal identifier. Unique per merchant. i.e. 72001126.
String	<i>originalApprovalCode</i>	R	6	Original approvalCode of purchase notify
String	<i>memberBank</i>	O	3	Acquirer Banking company code.

3.5.5. Request Example

```
{
  "originalReferenceNo": "506511669694",
  "originalPartnerReferenceNo": "00000000000000000087",
  "originalExternalId": "BPRLEXTRNL00048",
  "merchantId": "000071000026521",
  "reason": "Customer cancelation",
  "amount": {
    "value": "1042.00",
    "currency": "IDR"
  },
  "additionalInfo": {
    "originalTransactionDate": "20250306",
    "terminalId": "73001500",
    "originalApprovalCode": "222423",
    "memberBank": "999",
  }
}
```

3.5.6. Response Parameters

JSON Header				
No.	Field Name	R/C/O	Length	Description
1	Content-Type	R	16	Content type, i.e. <i>application/json</i> .
2	X-TIMESTAMP	R	25	± 5 minutes from server time
3	X-SIGNATURE	R	N/A	Result of HMAC calculation(see in 2.4.1)
4	X-EXTERNAL-ID	R	15	Numeric String, Reference number that should be unique in the same day
5	X-PARTNER-ID	R	36	An identifier to uniquely identify the token requestor. For example: "MTI-STORE"

JSON Body				
JSON Type	Field Name	R/C/O	Length	Remark
String	<i>responseCode</i>	R	7	Response code from MTI.

String	responseMessage	R	99	This field describes the response message from MTI. The list of response codes and its messages is shown above.
String	originalReferenceNo	R	12	Original transaction identifier on service provider system
String	cancelTime	C	25	Cancel time ISO-8601. Must be filled if cancelled transaction success
JSON Object	additionalInfo	O		Additional Information

JSON additionalInfo				
JSON Type	Field Name	R/C/O	Length	Remark
String	approvalCode	O	6	Approval code of the transaction. Values produced by Issuer.
String	referenceNo	R	12	Original transaction identifier on service provider system

3.5.7. Response Examples

```
{
```

```
  "responseCode": "2007700",
  "responseMessage": "Successful",
  "originalReferenceNo": "506511669694",
  "cancelTime": "2025-03-07T14:22:23",
  "additionalInfo": "{
    "approvalCode": "922967",
    "referenceNo": "506614670670"
```

```
  }"
```

```
}
```

3.6. QR Payment Credit Notify

3.6.1. Description

API to perform debit transaction in exchange for goods and/or services. MTI will trigger payment credit notify to merchant's API. If the request sent by MTI is successfully received by the merchant, the merchant must respond with the response code "2005200" and the response message "Success".

3.6.2. Flow

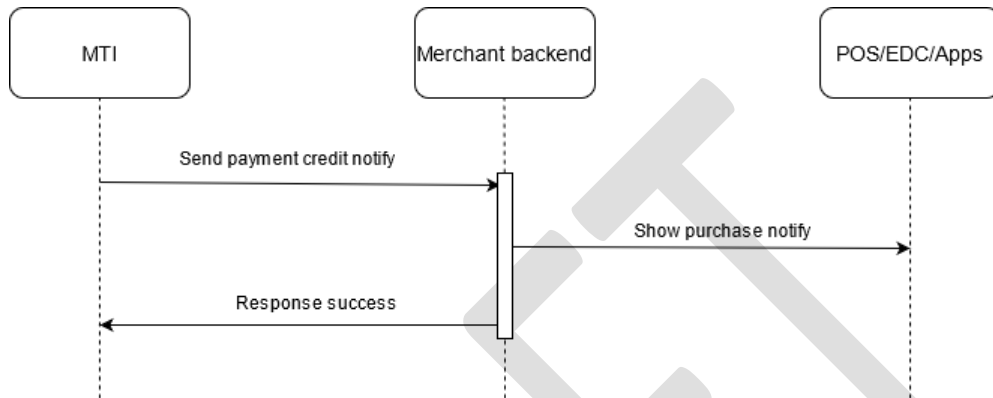


Figure 4. Payment credit notify flow

3.6.3. Properties

Service Code	52
URL	[URL merchant]/qr/qr-mpm-notify
Communication Type	Synchronous
Protocol	HTTPS
METHOD	POST

3.6.4. Request Parameters

JSON Header				
No.	Field Name	R/C/O	Length	Description
1	Content-Type	R		String represents indicate the media type of the resource (e.g. application/json, application/pdf)
2	X-TIMESTAMP	R		Client's current local time in yyyy-MM-ddTHH:mm:ss.SSSTZD format
3	X-SIGNATURE	R		Asymetric-Signature : SHA256withRSA (clientSecret, stringToSign) with formula: stringToSign = HTTPMethod + ":" + EndpointUrl + ":" + Lowercase(HexEncode(SHA-256(minify(RequestBody)))) + ":" + TimeStamp

4	X-EXTERNAL-ID	R	15	Numeric String, Reference number that should be unique in the same day
5	X-PARTNER-ID	R	36	An identifier to uniquely identify the token requestor. For example: "MTI-STORE"
6	CHANNEL-ID	R	2	PJP's channel id Device identification on which the API services is currently being accessed by the end user (customer)

JSON Body				
JSON Type	Field Name	R/C /O	Length	Remark
String	originalReferenceNo	R	12	Transaction identifier on service provider system. Must be filled upon successful transaction
String	latestTransactionStatus	M	2	00 - Success 01 - Initiated 02 - Paying 03 - Pending 04 - Refunded 05 - Canceled 06 - Failed 07 - Not found
String	transactionStatusDesc	M	99	00 - Success 01 - Initiated 02 - Paying 03 - Pending 04 - Refunded 05 - Canceled 06 - Failed 07 - Not found
String	customerNumber	O	19	Customer Primary Account Number for transaction. Values produced by Issuer
String	destinationNumber	O	19	Customer Primary Account Number for transaction. Values produced by Issuer
JSON object.	<i>amount</i>	R	12,2 (value) 3 (currency)	The field is used during purchase request. For example: Rp 100.000,00 is formatted into: { "value":"100000.00", "currency":"IDR" }.

String	bankCode	O	8	Bank code
JSON Object	additionalInfo	O		Additional Information

JSON additionalInfo				
JSON Type	Field Name	R/C/O	Length	Remark
String	<i>merchantId</i>	R	15	Merchant identifier. Unique per merchant. Padding left 0. Example: 00007100010926.
String	<i>terminalId</i>	R	8	Terminal identifier. Unique per merchant. i.e. 72001126.
String	approvalCode	O	6	Approval code of the transaction. Values produced by Issuer.
String	<i>issuerReferenceID</i>	O	20	issuerReferenceID shall contain only numeric. Values produced by Issuer. For example "23021812379800".
String	customerName	O	30	Customer Name of QR Payment transaction. Values produced by Issuer
String	issuerName	O	10	Issuer Name Transaction
String	<i>customerName</i>	O	30	Customer name from issuing

3.6.5. Request Example

```
{
  "originalReferenceNo": "908718002198",
  "latestTransactionStatus": "00",
  "transactionStatusDesc": "Success",
  "customerNumber": "1234123412341234",
  "destinationNumber": "1234123412341234",
  "amount ":
  {
    "value" : "100000.00",
    "currency": "IDR"
  },
},
  "bankCode": "999",
  "additionalInfo":
  {
    "merchantId": "00007100010926",
    "terminalId": "12345678",
    "approvalCode": "123456",
```



```

"customerName": "Customer Pay",
"issuerName": " Anonyms ",
"issuerReferenceID": "23021812379800"

```

```

}

```

```

}

```

3.6.6. Response Parameters

JSON Header				
No.	Field Name	R/C/O	Length	Description
1	Content-Type	R	16	Content type, i.e. <i>application/json</i> .
2	X-TIMESTAMP	R	25	± 5 minutes from server time
3	X-SIGNATURE	R	N/A	Result of HMAC calculation(see in 2.4.1)
4	X-EXTERNAL-ID	R	15	Numeric String, Reference number that should be unique in the same day
5	X-PARTNER-ID	R	36	An identifier to uniquely identify the token requestor. For example: "MTI-STORE"

				JSON Body
JSON Type	Field Name	R/C/O	Length	Remark
String	responseCode	R	7	Response code from Merchant
String	responseMessage	R	99	This field describes the response message from Merchant.
JSON Object	additionalInfo	O		Additional Information

3.6.7. Response Example

```

{
  "responseCode": "2005200",
  "responseMessage": "Successful"
}

```