

# WIZARPOS Payment App Integration Protocol

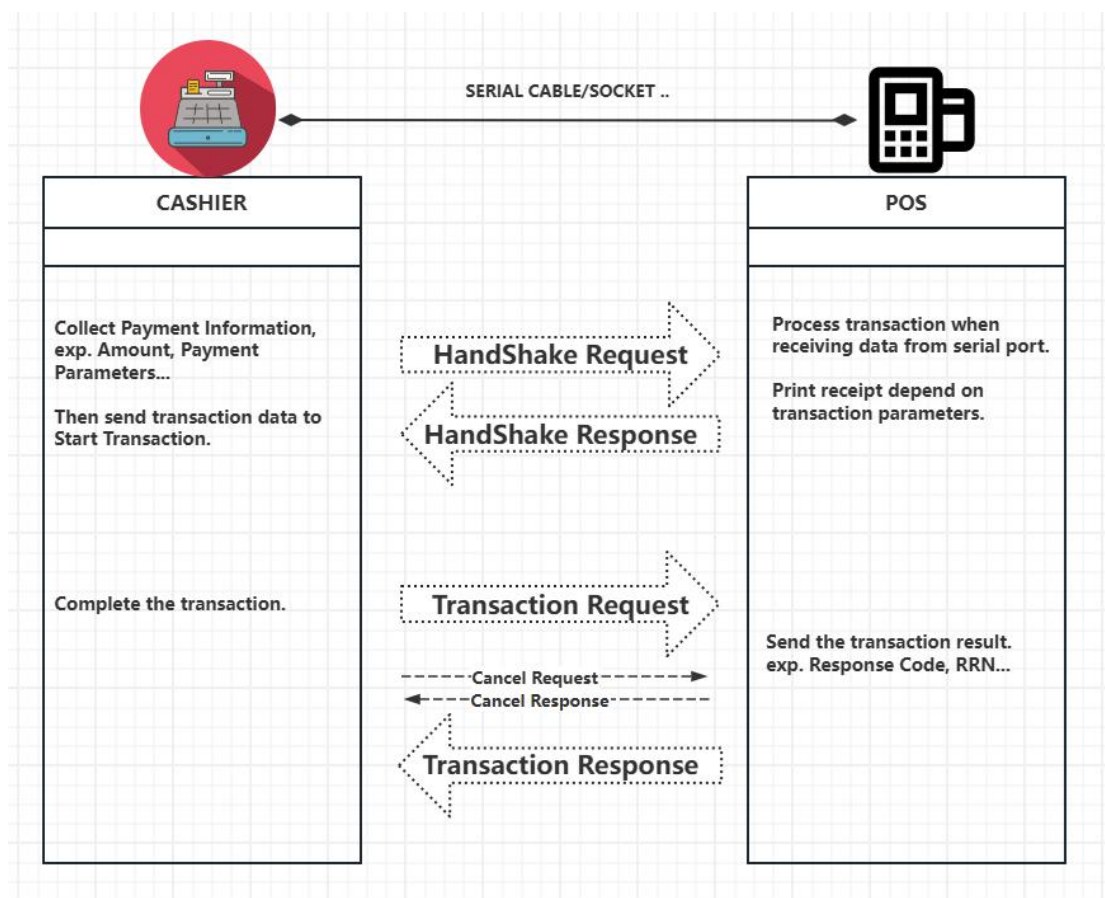
## V2.2.6

wizarPOS

# 1. Introduction

This document describes data exchange protocol between Cashier and WIZARPOS terminal. The Cashier is caller to perform transactions and Terminal will listen to Cashier and execute financial transaction.

## 2. Transaction Flow



1. Cashier shall send Handshake Request at first to confirm connection is ready.
2. After Handshake, Cashier shall perform transaction and send Transaction Request which contains payment data.
3. POS execute transaction and response the result.

### 3. Communication Configuration

|             |                           |
|-------------|---------------------------|
| Serial port | Default Baud Rate: 115200 |
| TCP server  | Default port: 6031        |
|             |                           |

### 4. Data Format

Data package between Cashier and Terminal.

| STX  | VERSION | CTRL      | LEN       | CONTENT     | ETX  | BCC      |
|------|---------|-----------|-----------|-------------|------|----------|
| 0x02 | 0x02    | (4 bytes) | (2 bytes) | (LEN bytes) | 0x03 | (1 byte) |

**STX** indicate start byte of data package, Fixed 0x02.

**VERSION** indicate protocol version.

**CTRL** indicate control bytes of data package.

**Byte 1:**

- 0x01** indicate data from Cashier
- 0x02** indicate data from POS
- 0x03** indicate ACK from Cashier
- 0xF1** indicate Handshake Request
- 0xF2** indicate Handshake Response
- 0xC1** indicate Cancel Request
- 0xC2** indicate Cancel Response
- 0x11** indicate Setting Request
- 0x12** indicate Setting Response
- 0x13** It refers to the setting parameter request.
- 0x14** It refers to the response to the setting parameter request.
- 0x15** It refers to the setting callback request.
- 0x16** It refers to the response to the setting callback request.
- 0x17** It refers to setting the callback content, which is notified to the vending machine by the POS.
- 0x18** It refers to the content that the POS actively notifies the vending machine.

**Byte 2:** Reserved. Set to 0x00.

**Byte 3-4:** Sequence number, request package set to X, response package set to X+1 **exp. Request [01] [0F], Response [01] [10]**

**LEN** indicate length bytes of CONTENT. Hex format.

**Exp. [01] [0F] means 0x10F (271) bytes.**

**CONTENT** indicate main content of transaction.

**ETX** indicate end byte, Fixed **0x03**.

**BCC** indicate package check value, from VERSION (contain) to ETX (contain).

**BCC algorithm:**

**BCC := [VERSION] xor [CTRL Byte1] xor [CTRL Byte2] xor ... xor [ETX]**

## 5. Handshake Request Content

**CONTENT**  
(4 bytes)

Handshake request content is 4 bytes random value.

## 6. Handshake Response Content

**CONTENT**  
(4 bytes)

Handshake response content should be same with the request.

## 7. Transaction Request Content

Transaction Request is content is json format as below:

| NAME             | FORMAT                | DESCRIPTION                                                                                          |
|------------------|-----------------------|------------------------------------------------------------------------------------------------------|
| "TransType"      | String<br>[Mandatory] | Indicate transaction type to be performed.<br>See <a href="#">A1.1 Transaction Type</a>              |
| "TransScheme"    | String<br>[Optional]  | Cooperation with TransType , used in specific schemes<br>See <a href="#">A1.2 Transaction Scheme</a> |
| "CallerName"     | String<br>[Optional]  | Caller name                                                                                          |
| "TransIndexCode" | String<br>[Optional]  | Indicate Cashier trace number<br>Should be unique for every transaction                              |
| "BusinessNum"    | String<br>[Optional]  | Business registration number                                                                         |
| "TerminalNum"    | String                | Terminal number                                                                                      |

|                            |                                                 |                                                                                                                                                                                                                                                                         |
|----------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | [Optional]                                      |                                                                                                                                                                                                                                                                         |
| <b>"TransAmount"</b>       | String<br>[Optional]<br>[Mandatory payment] for | Total amount including OtherAmount and TipAmount<br>"112233" means 1122.33(USD) or 112.233(JOD) depending on CurrencyCode<br>It is recommended to abide by the standard:<br><a href="https://en.wikipedia.org/wiki/ISO_4217">https://en.wikipedia.org/wiki/ISO_4217</a> |
| <b>"OtherAmount"</b>       | String<br>[Optional]                            | Cash back amount                                                                                                                                                                                                                                                        |
| <b>"TipAmount"</b>         | String<br>[Optional]                            | Tip amount                                                                                                                                                                                                                                                              |
| <b>"TaxAmount"</b>         | String<br>[Optional]                            | Tax amount, should be included in TransAmount                                                                                                                                                                                                                           |
| <b>"DutyFreeAmount"</b>    | String<br>[Optional]                            | value of the tax exemption amount, should be included in TransAmount                                                                                                                                                                                                    |
| <b>"CurrencyCode"</b>      | String<br>[Mandatory]                           | Indicate currency code of transaction<br>156: RMB<br>840: USD<br>400: JOD                                                                                                                                                                                               |
| <b>"ReqTransDate"</b>      | String (YYYYMMDD)<br>[Optional]                 | exp. "20201212"                                                                                                                                                                                                                                                         |
| <b>"ReqTransTime"</b>      | String (hhmmss)<br>[Optional]                   | exp. "1614033"                                                                                                                                                                                                                                                          |
| <b>"OriTransIndexCode"</b> | String<br>[Optional]                            | Original request TransIndexCode                                                                                                                                                                                                                                         |
| <b>"OriTraceNum"</b>       | String<br>[Optional]                            |                                                                                                                                                                                                                                                                         |
| <b>"OriInvoiceNum"</b>     | String<br>[Optional]                            | Original transaction InvoiceNum                                                                                                                                                                                                                                         |
| <b>"OriTransId"</b>        | String<br>[Optional]                            | Indicate original transaction id                                                                                                                                                                                                                                        |
| <b>"OriRrn"</b>            | String<br>[Optional]                            | Indicate original RRN                                                                                                                                                                                                                                                   |
| <b>"OriTransDate"</b>      | String(YYYYMMDD)<br>[Optional]                  | Indicate original transaction date                                                                                                                                                                                                                                      |
| <b>"OriTransTime"</b>      | String(hhmmss)                                  | Indicate original transaction time                                                                                                                                                                                                                                      |

|                         |                       |                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | [Optional]            |                                                                                                                                                                                                                                                                 |
| “EnableReceipt”         | boolean<br>[Optional] | false-Disable Receipt<br>true-Enable Receipt                                                                                                                                                                                                                    |
| “AppendingReceiptInfo”  | String<br>[Optional]  | Indicate message to be printed on receipt                                                                                                                                                                                                                       |
| “SkipConfirmProcedure”  | boolean<br>[Optional] | false-Don not Skip<br>true-Skip Confirm Procedure                                                                                                                                                                                                               |
| “EnableCancelInPayment” | boolean<br>[Optional] | true-Enable user cancel operation<br>false-Disable user cancel operation                                                                                                                                                                                        |
| “AdditionalInfo”        | String<br>[Optional]  | Simplex: No data will be returned for this transaction.<br>Simplify: Simplified parameters will be returned.<br>SN: The device SN will be returned in the AdditionalInfo of the response.<br>Multiple parameters are linked with "&", for example: Simplify&SN. |
| “SkipUI”                | boolean<br>[Optional] | Skip payment application UI interaction :<br>false-Don not Skip<br>true-Skip                                                                                                                                                                                    |
| “OriAuthCode”           | String<br>[Optional]  | Transaction Auth Code returned from Host Server                                                                                                                                                                                                                 |
| “goodsInfoList”         | List<br>[Optional]    | Product Information List (Mandatory for Liquid Pay Transactions)                                                                                                                                                                                                |
| └─ “OrderNum”           | String<br>[Mandatory] | Unique Product ID                                                                                                                                                                                                                                               |
| └─ “OrderInfo”          | String<br>[Mandatory] | Product details                                                                                                                                                                                                                                                 |
| └─ “OrderQuantity”      | String<br>[Mandatory] | Product Quantity                                                                                                                                                                                                                                                |
| └─ “OrderUnitPrice”     | String<br>[Mandatory] | Unit Price of Product                                                                                                                                                                                                                                           |
| “VoidReason”            | String<br>[Optional]  | Void reason, which is required when liquid Pay conducts a void                                                                                                                                                                                                  |
| “TransactionId”         | String<br>[Optional]  | Transaction ID, which is required when liquid Pay conducts a void                                                                                                                                                                                               |
| “OpcAction”             | String<br>[Optional]  | When the value of TransType is OPC, it is mandatory.Refer to <a href="#">A1.3 OPC</a>                                                                                                                                                                           |
| “CallerStatus”          | String<br>[Optional]  | Caller status<br>DOOR_OPEN_SUCCESS: The door is opened successfully.<br>DOOR_OPEN_FAILURE: The door opening fails.<br>DOOR_OPEN_TIME_OUT: The door                                                                                                              |

|                        |                       |                                                          |
|------------------------|-----------------------|----------------------------------------------------------|
|                        |                       | opening times out.                                       |
| <b>"EnableReceipt"</b> | boolean<br>[Optional] | Print receipt:<br>false - Do not print<br>true -Printing |

Request content sample:

```
{
  "TransType": "Purchase",
  "TransIndexCode": "112233",
  "TransAmount": "10000",
  "CurrencyCode": "840",
  "ReqTransDate": "20210302",
  "ReqTransTime": "144230",
  "OriTransId": "",
  "OriRrn": "",
  "EnableReceipt": true,
  "AppendingReceiptInfo": "",
  "SkipConfirmProcedure": false,
  "SkipUI": false
}
```

## 8. Transaction Response Content

Transaction Request is content is json format which contain request data as below:

| NAME                    | FORMAT                 | DESCRIPTION                                                                                             |
|-------------------------|------------------------|---------------------------------------------------------------------------------------------------------|
| <b>"TransType"</b>      | String<br>[Mandatory]  | Indicate transaction type to be performed.                                                              |
| <b>"TransScheme"</b>    | String<br>[Optional]   | Cooperation with TransType ,<br>used in specific schemes<br>See <a href="#">A1.2 Transaction Scheme</a> |
| <b>"CallerName"</b>     | String<br>[Optional]   | Caller name                                                                                             |
| <b>"TransIndexCode"</b> | String<br>[Optional]   | Indicate Cashier trace number                                                                           |
| <b>"TransResult"</b>    | boolean<br>[Mandatory] | true: Success<br>false: Failed                                                                          |
| <b>"RespCode"</b>       | String<br>[Mandatory]  | Response code from host server                                                                          |

|                         |                                                     |                                                                                                                                                                                          |
|-------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         |                                                     |                                                                                                                                                                                          |
| <b>"RespDesc"</b>       | String<br>[Mandatory]                               | Response message from host server                                                                                                                                                        |
| <b>"ApprovalCode"</b>   | String<br>[Optional]                                | Approval code from host                                                                                                                                                                  |
| <b>"CardNum"</b>        | String<br>[Optional]                                |                                                                                                                                                                                          |
| <b>"EntryMode"</b>      | Int<br>[Optional]                                   | 0x01: Manual Entry<br>0x02: Swipe Entry(no CVV)<br>0x05: Contact ICC(with CVV)<br>0x07: Contactless<br>0x90: Swipe Entry(with CVV)<br>0x91: Contactless MSD<br>0x95: Contact ICC(no CVV) |
| <b>"ExpiryDate"</b>     | String<br>[Optional]                                |                                                                                                                                                                                          |
| <b>"CardBrand"</b>      | String<br>[Optional]                                | exp.<br>Visa/MasterCard/Amex/Discover                                                                                                                                                    |
| <b>"TransAmount"</b>    | String<br>[Optional]<br>[Mandatory for Sale/Refund] | "112233" means<br>1122.33(USD) 112.233(JOD)                                                                                                                                              |
| <b>"OtherAmount"</b>    | String<br>[Optional]                                | Cash back amount                                                                                                                                                                         |
| <b>"TipAmount"</b>      | String<br>[Optional]                                | Tip amount                                                                                                                                                                               |
| <b>"Balance"</b>        | String<br>[Optional]                                |                                                                                                                                                                                          |
| <b>"TaxAmount"</b>      | String<br>[Optional]                                | Tax amount, should be included in TransAmount                                                                                                                                            |
| <b>"DutyFreeAmount"</b> | String<br>[Optional]                                | value of the tax exemption amount                                                                                                                                                        |
| <b>"CurrencyCode"</b>   | String<br>[Optional]                                | Indicate currency code of transaction<br>156: RMB<br>840: USD<br>400: JOD                                                                                                                |
| <b>"CountryCode"</b>    | String<br>[Optional]                                |                                                                                                                                                                                          |

|                             |                                               |                                                      |
|-----------------------------|-----------------------------------------------|------------------------------------------------------|
| <b>"DccOriCurrencyCode"</b> | Integer<br>[Optional]<br>[Mandatory when DCC] | Original Request Currency Code to be converted       |
| <b>"DccOriAmount"</b>       | String<br>[Optional]<br>[Mandatory when DCC]  | Original Request Amount                              |
| <b>"DccFee"</b>             | String<br>[Optional]<br>[Mandatory when DCC]  | DCC Fee of the transaction                           |
| <b>"DccExchangeRate"</b>    | String<br>[Optional]<br>[Mandatory when DCC]  | DCC exchange rate                                    |
| <b>"DccMarkUp"</b>          | String<br>[Optional]<br>[Mandatory when DCC]  | DCC mark up                                          |
| <b>"DccFooterText"</b>      | String<br>[Optional]<br>[Mandatory when DCC]  | DCC footer text                                      |
| <b>"TransDate"</b>          | String (YYYYMMDD)<br>[Mandatory]              | Transaction date<br>exp. "20201212"                  |
| <b>"TransTime"</b>          | String (hhmmss)<br>[Mandatory]                | Transaction time<br>exp. "1614033"                   |
| <b>"MID"</b>                | String<br>[Optional]                          | Merchant ID                                          |
| <b>"TID"</b>                | String<br>[Optional]                          | Terminal ID                                          |
| <b>"MerchantName"</b>       | String<br>[Optional]                          | Merchant Name                                        |
| <b>"MerchantAddress"</b>    | String<br>[Optional]                          | Merchant Address                                     |
| <b>"TraceNum"</b>           | String<br>[Optional]                          | Trace Number of payment app                          |
| <b>"TransID"</b>            | String<br>[Optional]                          | Transaction ID returned from Host Server             |
| <b>InvoiceNum</b>           | String<br>[Optional]                          | Invoice Number of transaction                        |
| <b>"RRN"</b>                | String<br>[Optional]                          | Retrieval Reference number returned from Host Server |

|                            |                       |                                                                                                               |
|----------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------|
|                            |                       |                                                                                                               |
| <b>"AuthCode"</b>          | String<br>[Optional]  | Transaction Auth Code returned from Host Server                                                               |
| <b>"OriTransIndexCode"</b> | String<br>[Optional]  | Original request TransIndexCode                                                                               |
| <b>"OriInvoiceNum"</b>     | String<br>[Optional]  | Original transaction InvoiceNum                                                                               |
| <b>"OriTransId"</b>        | String<br>[Optional]  | Indicate original transaction id                                                                              |
| <b>"OriRrn"</b>            | String<br>[Optional]  | Indicate original RRN                                                                                         |
| <b>"EmvAid"</b>            | String<br>[Optional]  | Indicate EMV AID                                                                                              |
| <b>"EmvAppName"</b>        | String<br>[Optional]  | Indicate EMV app name                                                                                         |
| <b>"EmvCryptogram"</b>     | String<br>[Optional]  | Indicate EMV TC or ARQC                                                                                       |
| <b>"EmvTVR"</b>            | String<br>[Optional]  | Indicate EMV TVR                                                                                              |
| <b>"AdditionalInfo"</b>    | String<br>[Optional]  |                                                                                                               |
| <b>"CardUniqueId"</b>      | String<br>[Optional]  | The transaction returns the unique identifier of the card. This field is returned when TransType is ReadCard. |
| <b>"BatchNum"</b>          | String<br>[Optional]  | Batch number                                                                                                  |
| <b>"OpcAction"</b>         | String<br>[Optional]  | OPC action, the value is the same as the request input parameter.                                             |
| <b>"OpcVersionName"</b>    | String<br>[Optional]  | OPC version name                                                                                              |
| <b>"OpcVersionCode"</b>    | String<br>[Optional]  | OPC version code                                                                                              |
| <b>"HasMSR"</b>            | boolean<br>[Optional] | true: There is a magnetic stripe card reader<br>false: There is no magnetic stripe card reader                |
| <b>"BatchDetailInfo"</b>   | Object<br>[Optional]  | Batch settlement information on the payment application                                                       |

## 9. Cancel Request Content

Cancel request content is empty.

## 10. Cancel Response Content

| NAME        | FORMAT                 | DESCRIPTION                                                           |
|-------------|------------------------|-----------------------------------------------------------------------|
| "cancelled" | boolean<br>[Mandatory] | true: transaction cancelled.<br>False: transaction can't be cancelled |

## 11. Setting Request Content

| NAME          | FORMAT                | DESCRIPTION                                    |
|---------------|-----------------------|------------------------------------------------|
| "FixedAmount" | String<br>[Mandatory] | Set a fixed amount for the payment application |

Request Setting sample:

```
{
  "FixedAmount": "10000"
}
```

## 12. Setting Response Content

| NAME     | FORMAT                | DESCRIPTION       |
|----------|-----------------------|-------------------|
| "Result" | String<br>[Mandatory] | Success<br>Failed |

Response Setting sample:

```
{
  "Result": "success"
}
```

## 13. ACK Content

| NAME | FORMAT | DESCRIPTION               |
|------|--------|---------------------------|
| Key  | String | Customize keys and values |

|  |             |                           |
|--|-------------|---------------------------|
|  | [Mandatory] | according to requirements |
|--|-------------|---------------------------|

## 14. Set Parameter Request Content

| NAME      | FORMAT                | DESCRIPTION                                                                                                    |
|-----------|-----------------------|----------------------------------------------------------------------------------------------------------------|
| "AppHide" | boolean<br>[Optional] | true: Hide the app icon of the payment application.<br>false: Display the app icon of the payment application. |

## 15. Set Callback Request Content

Set callback request content is empty.

## 16. Set Callback Response Content

| NAME     | FORMAT                | DESCRIPTION       |
|----------|-----------------------|-------------------|
| "Result" | String<br>[Mandatory] | Success<br>Failed |

Setting callback response sample:

```
{
  "Result": "success"
}
```

## 17. POS Active Notification Content

| NAME   | FORMAT                | DESCRIPTION                                                         |
|--------|-----------------------|---------------------------------------------------------------------|
| "Type" | String<br>[Mandatory] | Notification Type<br>See <a href="#">A1.4 OPC Notification Type</a> |

Notification sample:

```
{
  "Type": "ActivePreAuth"
}
```

## Annex 1

### A1.1 Transaction Type

| TransType                | Description                                                                                           |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| Purchase                 |                                                                                                       |
| PreAuth                  |                                                                                                       |
| IncrementalAuth          |                                                                                                       |
| AuthVoid                 |                                                                                                       |
| AuthCompletion           |                                                                                                       |
| BalanceInquiry           |                                                                                                       |
| Reversal                 |                                                                                                       |
| Refund                   |                                                                                                       |
| Settle                   |                                                                                                       |
| TipAdjust                |                                                                                                       |
| ReadCard                 | To obtain card information, only "TransType" needs to be passed, and "CardUniqueld" will be returned. |
| <i>Local transaction</i> |                                                                                                       |
| QueryTransaction         | Query transaction result by OriTransIndexCode                                                         |
| PrintLast                |                                                                                                       |
| PrintTotal               |                                                                                                       |
| PrintDetail              |                                                                                                       |
| PrintParameter           |                                                                                                       |
| GetPosInfo               |                                                                                                       |
| VerifyCardPan            | Verify whether card number match original transaction                                                 |
| OPC                      | This request will be processed by OPC and will not be forwarded to the payment application.           |
| GetLastSettleInfo        | Obtain batch settlement information on the payment application.                                       |

### A1.2 Transaction Scheme

| Scheme | Description |
|--------|-------------|
|--------|-------------|

|        |                |
|--------|----------------|
| Credit | Credit card    |
| Debit  | Debit card     |
| EBT    |                |
| ECS    |                |
| QR     | QR transaction |

### A1.3 OPC Action

| Action         | Description                                  |
|----------------|----------------------------------------------|
| Version        | Query the OPC version                        |
| OpenDoorResult | Notify the OPC of the door - opening result. |

### A1.4 OPC Notification Type

| Type          | Description                             |
|---------------|-----------------------------------------|
| ActivePreAuth | Active pre - authorization notification |

## Revision

| Version | Description                                                                                                            | Date & Author         |
|---------|------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 1.0.0   | Create First Version                                                                                                   | 20210302 fengshuopeng |
| 1.0.1   | Add transaction type<br>Add currency and reserved fields in content                                                    | 20210308 fengshuopeng |
| 1.0.2   | Update Transaction Request/Response content                                                                            | 20210326 fengshuopeng |
| 1.0.3   | Add "InvoiceNum" for transaction response                                                                              | 20211216 fengshuopeng |
| 1.0.4   | Add "SkipConfirmProcedure" in request                                                                                  | 20220615 fengshuopeng |
| 1.0.5   | Add "DccFee", "DccExchangeRate",<br>"DccMarkUp", "DccFooterText", "Sequence"<br>"EntryMode", "PaymentType" in response | 20230829 fengshuopeng |
| 1.0.6   | Add cancel request/response                                                                                            | 20231017 fengshuopeng |
| 1.0.7   | Add " TransResult" in response                                                                                         | 20240619 fengshuopeng |
| 2.0.0   | Update version to 0x02, request/response fields update                                                                 | 20240715 fengshuopeng |
| 2.0.1   | Add "BusinessNum", "TerminalNum",<br>"TaxAmount", "DutyFreeAmount",<br>"AdditionalInfo" in request,                    | 20240905 fengshuopeng |

|        |                                                                                                                                                                             |                       |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|        | add "ApprovalCode", "TaxAmount", "DutyFreeAmount", "AdditionalInfo" in response                                                                                             |                       |
| 2.0.2  | Add "OriTransDate", "OriTransTime" in request                                                                                                                               | 20240912 fengshuopeng |
| 2.0.3  | Add QR scheme                                                                                                                                                               | 20241010 fengshuopeng |
| 2.0.4  | Add Some TransType                                                                                                                                                          | 20250218 nihailiang   |
| 2.0.5  | Add Data Format CTRL<br>Add Setting Request And Response                                                                                                                    | 20250305 nihailiang   |
| 2.0.6  | Add SkipUI in REQUEST for skip payment APP UI                                                                                                                               | 20250320 nihailiang   |
| 2.0.7  | Add the transaction type "ReadCard", and return the card unique identifier "CardUniqueld".                                                                                  | 20250320 nihailiang   |
| 2.0.8  | Add the "AdditionalInfo" request parameters Simplex, Simplify, SN. Add the "OriAuthCode" field to the request parameters.Suggestions on adding transaction amount standards | 20250901 wukaikai     |
| 2.0.9  | Add liquid Pay - related fields such as goodsInfoList, OrderNum, OrderInfo, OrderQuantity, OrderUnitPrice, VoidReason, and TransactionId.                                   | 20250909 wukaikai     |
| 2.0.10 | Add the BatchNum field to the response.                                                                                                                                     | 20251016 wukaikai     |
| 2.1.0  | Add the type OPC to TransType. Request to add the fields opcAction and openResult. Response to add the fields action, opcVersionName and opcVersionCode.                    | 20251021 wukaikai     |
| 2.2.0  | Add setting parameters and setting callbacks.                                                                                                                               | 20251031 wukaikai     |
| 2.2.3  | Add the HasMSR field to the GetPosInfo command for return. Add the OPC active notification command to the vending machine.                                                  | 20251208 wukaikai     |
| 2.2.4  | Set parameters to add the AppHide field.                                                                                                                                    | 20251210 wukaikai     |
| 2.2.5  | Add the EnableReceipt field to the transaction request.                                                                                                                     | 20251211 wukaikai     |
| 2.2.6  | The transaction type has added GetLastSettleInfo, and the returned data has added the field BatchDetailInfo.                                                                | 20251217 wukaikai     |