

WIZARPOS Payment App AIDL Manual

V1.0.5

1. Introduction

This document describes how to use android AIDL to call payment app.

2. Introduce AIDL to app

- put the **aidl** and **java** folders into path **src/main** under app module
- rebuild your project to build aidl source code
- bind the service and call payment app
package: **com.wizarpos.opc**
action: **com.wizarpos.payment.aidl.pay**

3. transact request

parameter in method transact is json format string as below:

NAME	FORMAT	DESCRIPTION
"TransType"	String [Mandatory]	Indicate transaction type to be performed. See A1.1 Transaction Type
"TransScheme"	String [Optional]	Cooperation with TransType, used in specific schemes See A1.2 Transaction Scheme
"CallerName"	String [Mandatory]	Caller name
"TransIndexCode"	String [Mandatory]	Indicate Cashier trace number Should be unique for every transaction
"TransAmount"	String	Total amount including

	[Optional] [Mandatory for payment]	OtherAmount and TipAmount "112233" means 1122.33(USD) or 112.233(JOD) depending on CurrencyCode
"OtherAmount"	String [Optional]	Cash back amount
"TipAmount"	String [Optional]	Tip amount
"SurchargeFeeAmount"	String [Optional]	Surcharge Fee
"CurrencyCode"	String [Mandatory]	Indicate currency code of transaction 156: RMB 840: USD 400: JOD
"ReqTransDate"	String (YYYYMMDD) [Optional]	exp. "20201212"
"ReqTransTime"	String (hhmmss) [Optional]	exp. "1614033"
"OriTransIndexCode"	String [Optional]	Original request TransIndexCode
"OriTraceNum"	String [Optional]	
"OriInvoiceNum"	String [Optional]	Original transaction InvoiceNum
"OriTransId"	String [Optional]	Indicate original transaction id
"OriRrn"	String [Optional]	Indicate original RRN
"EnableReceipt"	boolean [Optional]	false-Disable Receipt true-Enable Receipt
"AppendingReceiptInfo"	String [Optional]	Indicate message to be printed on receipt
"SkipConfirmProcedure"	boolean [Optional]	false-Don not Skip true-Skip Confirm Procedure
"SkipUI"	boolean [Optional]	Skip payment application UI interaction: false-Don not Skip true-Skip
"AdditionalInfo"	String [Optional]	a json that include extended fields exp. '{"itemNumber": "66"}'

"itemNumber"	String [Optional] [Extended]	Extended field in AdditionalInfo, the item number of the selected product in MdbVendRequest
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Request content sample:

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

4. transact return

return value of method transact is json format string as below:

NAME	FORMAT	DESCRIPTION
"TransType"	String [Mandatory]	Indicate transaction type to be performed. See A1.1 Transaction Type
"TransScheme"	String [Optional]	Cooperation with TransType, used in specific schemes See A1.2 Transaction Scheme
"CallerName"	String [Mandatory]	Caller name
"TransIndexCode"	String [Mandatory]	Indicate Cashier trace number
"TransResult"	boolean [Mandatory]	true: Success false: Failed
"RespCode"	String [Mandatory]	Response code from host server

"RespDesc"	String [Mandatory]	Response message from host server
"CardNum"	String [Optional]	
"EntryMode"	Int [Optional]	0x01: Manual Entry 0x02: Swipe Entry 0x05: Insert Entry 0x07: Contactless
"ExpiryDate"	String [Optional]	
"CardBrand"	String [Optional]	exp. Visa/MasterCard/Amex/Discover
"TransAmount"	String [Optional] [Mandatory for Sale/Refund]	"112233" means 1122.33(USD) 112.233(JOD)
"OtherAmount"	String [Optional]	Cash back amount
"TipAmount"	String [Optional]	Tip amount
"SurchargeFeeAmount"	String [Optional]	Surcharge Fee
"Balance"	String [Optional]	
"CurrencyCode"	String [Optional]	Indicate currency code of transaction 156: RMB 840: USD 400: JOD
"DccOriCurrencyCode"	Integer [Optional] [Mandatory when DCC]	Original Request Currency Code to be converted
"DccOriAmount"	String [Optional] [Mandatory when DCC]	Original Request Amount
"DccFee"	String [Optional] [Mandatory when DCC]	DCC Fee of the transaction
"DccExchangeRate"	String [Optional] [Mandatory when DCC]	DCC exchange rate

"DccMarkUp"	String [Optional] [Mandatory when DCC]	DCC mark up
"DccFooterText"	String [Optional] [Mandatory when DCC]	DCC footer text
"TransDate"	String (YYYYMMDD) [Mandatory]	Transaction date exp. "20201212"
"TransTime"	String (hhmmss) [Mandatory]	Transaction time exp. "1614033"
"CountryCode"	String [Optional]	
"MID"	String [Optional]	Merchant ID
"TID"	String [Optional]	Terminal ID
"MerchantName"	String [Optional]	Merchant Name
"MerchantAddress"	String [Optional]	Merchant Address
"TraceNum"	String [Optional]	Trace Number of payment app
"TransID"	String [Optional]	Transaction ID returned from Host Server
InvoiceNum	String [Optional]	Invoice Number of transaction
"RRN"	String [Optional]	Retrieval Reference number returned from Host Server
"AuthCode"	String [Optional]	Transaction Auth Code returned from Host Server
"OriTransIndexCode"	String [Optional]	Original request TransIndexCode
"OriInvoiceNum"	String [Optional]	Original transaction InvoiceNum
"OriTransId"	String	Indicate original transaction id

	[Optional]	
"OriRrn"	String [Optional]	Indicate original RRN
"EmvAid"	String [Optional]	Indicate EMV AID
"EmvAppName"	String [Optional]	Indicate EMV app name
"EmvCryptogram"	String [Optional]	Indicate EMV TC or ARQC
"EmvTVR"	String [Optional]	Indicate EMV TVR
"IsKeyLoaded"	boolean [Mandatory]	true: Loaded OR No Need false: Not Loaded
"AdditionalInfo"	String [Optional]	a json that include extended fields exp. '{"itemNumber": "66"}'
"itemNumber"	String [Optional] [Extended]	Extended field in AdditionalInfo, the item number of the selected product in MdbVendRequest

5. Setting request

parameter in method Setting is json format string as below:

NAME	FORMAT	DESCRIPTION
"FixedAmount"	String [Mandatory]	Set a fixed amount for the payment application

Request Setting sample:

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

6. Setting Response

NAME	FORMAT	DESCRIPTION
"Result"	String [Mandatory]	Success Failed

Response Setting sample:

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

}

Annex 1

A1.1 Transaction Type

交易类型	描述
Purchase	消费
PreAuth	预授权
IncrementalAuth	追加预授权
AuthVoid	撤销预授权
AuthCompletion	预授权完成
BalanceInquiry	余额查询
Reversal	冲正/撤销
Refund	退货
Settle	结算
TipAdjust	小费调整（目前仅 WorldPay 支持）
<i>local transaction</i>	
QueryTransaction	
PrintLast	
PrintTotal	
PrintDetail	
PrintParameter	
GetPosInfo	
VerifyCardPan	
SettingParam	

A1.2 Transaction Scheme

Scheme	Description
Credit	Credit card
Debit	Debit card
EBT	
ECS	
QR	

Revision

Version	Description	Date & Author
1.0.0	Create First Version	20240715 fengshuopeng
1.0.1	Add QR scheme	20241010 fengshuopeng
1.0.2	When "TransType" is "GetPosInfo",add a field to the returned data--"IsKeyLoaded".Used to judge,if the key injected successfully	20241127 nihailiang
1.0.3	Add a method to set a fixed amount to the payment application. SettingParam-Method can be extended in the later stage	20250305 nihailiang
1.0.4	Add SkipUI in REQUEST for skip payment APP UI	20250320 nihailiang
1.0.5	Add Surcharge Fee, AdditionalInfo	20250730 longxiang