wizarPOS

This document aims to clearly describe the mutual calling relationship between the OPC and the payment application, and introduces the necessary functions provided by the payment application.

一、 Between OPC and Payment APP-------AIDL

OPC invokes [the interface] after binding via Ibinder

Payment APP implements the AIDL Service interface.

Interface Definition:

interface IPaymentPay{

 /**

 * [Mandatory]

 * execute transaction with json parameters

 * this is a synchronized method and it will be blocked until return the payment

result

 * */

 String transact(String jsonData);

```
    /**

     * [Optional]

     * add callback during payment steps, used for prompt User procedure

information

     */

    void addProcedureCallback(in IPaymentPayCallback callBack);



    /**

    * [Mandatory]

    * cancel previous request and will make transact return

    * this method return false when payment action can not be cancelled

    */

    boolean cancelRequest(String jsonData);



    /**

    * [Optional]

    * set param to the service

    * such as language support type, card bin check...

    */

    String setParam(String jsonData);

}
```
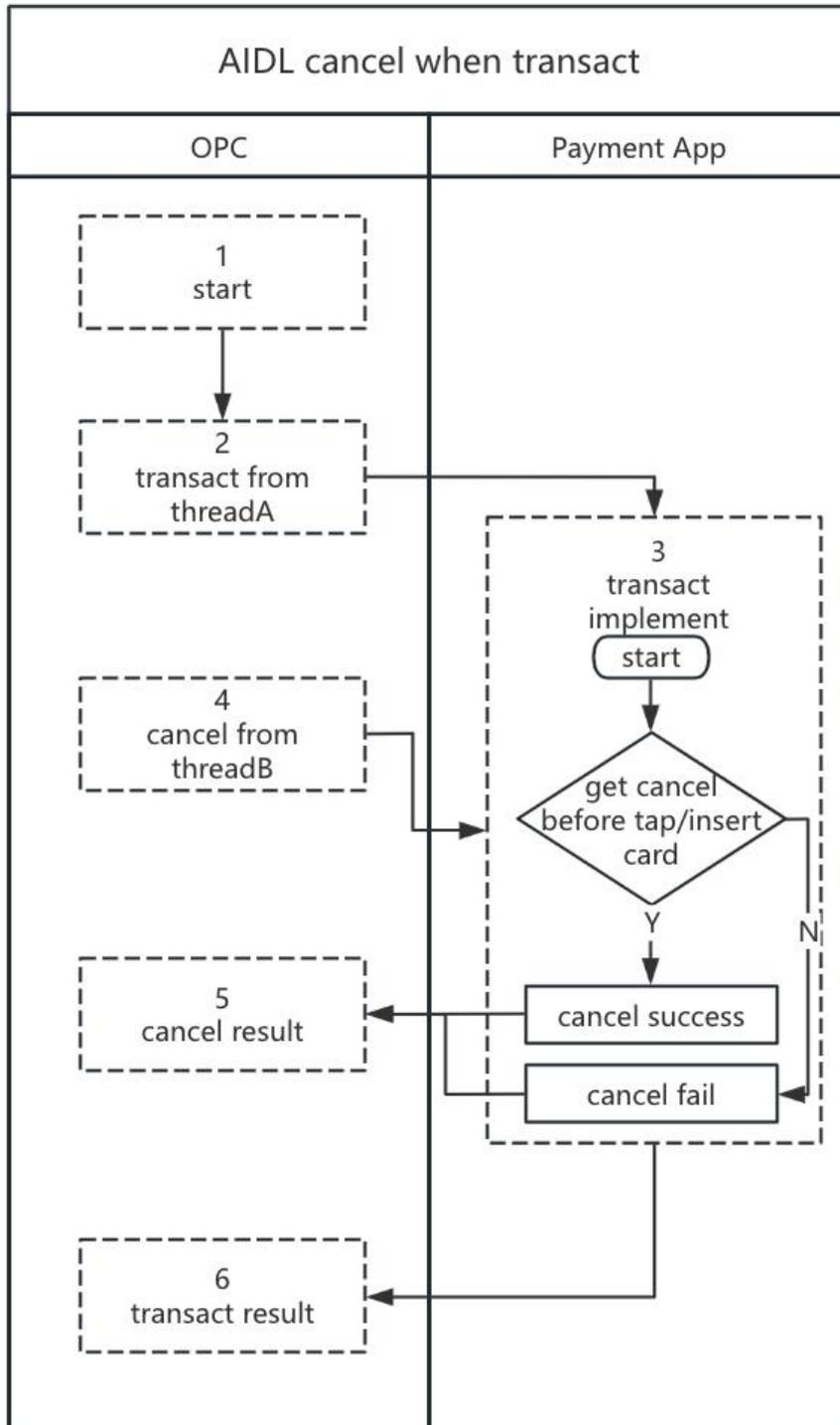
wizarPOS

AIDL cancel when transact

OPC	Payment App

1
start

2
transact from threadA

3
transact implement
(start)

get cancel before tap/insert card

Y   N

4
cancel from threadB

cancel success

cancel fail

5
cancel result

6
transact result
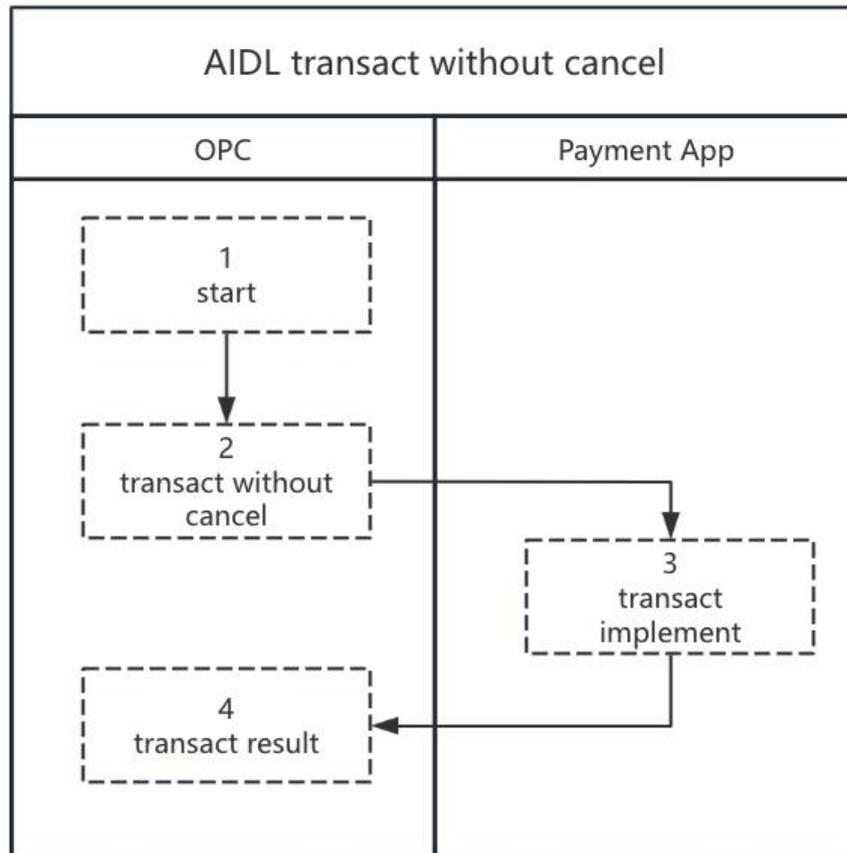
二、 Information and Parameters That OPC Can Pass to the Payment APP

In JSON format, the vending machine payment request information is transmitted via the AIDL interface :String transact(String jsonData);

Transact Request Content

NAME	FORMAT	DESCRIPTION
"TransType"	String [Mandatory]	Indicate transaction type to be performed： Purchase [M] PreAuth [M-O] IncrementalAuth[O] AuthVoid [M-O] AuthCompletion [M-O] Reversal [M] Refund [O] QueryTransaction [M-O]
"TransScheme"	String [Optional]	Cooperation with TransType, used in specific schemes **Credit** **Debit** **EBT** **ECS** **QR** **QRUserScan** **QRPosScan**

"CallerName"	String [Optional]	Caller name
"TransIndexCode"	String [Optional]	Indicate Cashier trace number Should be unique for every transaction
"BusinessNum"	String [Optional]	Business registration number
"TerminalNum"	String [Optional]	Terminal number
"TransAmount"	String [Optional] [Mandatory for payment]	Total amount including OtherAmount and TipAmount "112233" means 1122.33(USD) or 112.233(JOD) depending on CurrencyCode It is recommended to abide by the standard: https://en.wikipedia.org/wi

		ki/ISO_4217
"OtherAmount"	String [Optional]	Cash back amount
"TipAmount"	String [Optional]	Tip amount
"TaxAmount"	String [Optional]	Tax amount, should be included in TransAmount
"DutyFreeAmount"	String [Optional]	value of the tax exemption amount, should be included in TransAmount
"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
"OriTransDate"	String(YYYYMMDD) [Optional]	Indicate original transaction date
"OriTransTime"	String(hhmmss) [Optional]	Indicate original transaction time
"EnableReceipt"	boolean [Optional]	false–Disable Receipt true–Enable Receipt
"AppendingReceiptInfo"	String [Optional]	Indicate message to be printed on receipt
"SkipConfirmProcedure"	boolean	false–Don not Skip

	[Optional]	true—Skip Confirm Procedure
"EnableCancelInPayment"	boolean [Optional]	true—Enable user cancel operation false—Disable user cancel operation
"AdditionalInfo"	String [Optional]	Simplex: No data will be returned for this transaction. Simplify: Simplified parameters will be returned. SN: The device SN will be returned in the AdditionalInfo of the response. Multiple parameters are linked with "&", for example: Simplify&SN.
"SkipUI"	boolean [Optional]	Skip payment application UI interaction：false—Don not Skip true—Skip

"OriAuthCode"	String [Optional]	Transaction Auth Code returned from Host Server
"goodsInfoList"	List [Optional]	Product Information List (Mandatory for Liquid Pay Transactions)
├── "OrderNum"	String [Mandatory]	Unique Product ID
├── "OrderInfo"	String [Mandatory]	Product details
├── "OrderQuantity"	String [Mandatory]	Product Quantity
└── "OrderUnitPrice"	String [Mandatory]	Unit Price of Product
"VoidReason"	String [Optional]	Void reason, which is required when liquid Pay conducts a void
"TransactionId"	String [Optional]	Transaction ID

Request content sample:

{

    "TransType" : "Purchase",

    "TransIndexCode" : "112233",

    "TransAmount" : "10000",

    "CurrencyCode" : "840",

    "ReqTransDate" : "20210302",

    "ReqTransTime" : "144230",

    "OriTransId" : "",

    "OriRrn " : "",

    "EnableReceipt " : true,

    "AppendingReceiptInfo " : "",

"SkipConfirmProcedure" : false ,

"SkipUI" : false

}

Transact Response Content

NAME	FORMAT	DESCRIPTION
"TransType"	String [Mandatory]	Indicate transaction type to be performed.
"TransScheme"	String [Optional]	

"CallerName"	String [Optional]	Caller name
"TransIndexCode"	String [Optional]	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
"ApprovalCode"	String [Optional]	Approval code from host
"CardNum"	String [Optional]	
"EntryMode"	Int [Optional]	0x01: Manual Entry 0x02: Swipe Entry(no CVV) 0x05: Contact ICC(with CVV) 0x07: Contactless 0x90: Swipe Entry(with CVV)

| | | 0x91: Contactless MSD

0x95: Contact ICC(no CVV) |
|---|---|---|
| **"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 |
| **"Balance"** | String

[Optional] | |
| **"TaxAmount"** | String

[Optional] | Tax amount, should be included in TransAmount |

"DutyFreeAmount"	String [Optional]	value of the tax exemption amount
"CurrencyCode"	String [Optional]	Indicate currency code of transaction 156: RMB 840: USD 400: JOD
"CountryCode"	String [Optional]	
"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]	DCC exchange rate

	[Mandatory when DCC]	
"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"
"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 [Optional]	Indicate original transaction id
"OriRrn"	String [Optional]	Indicate original RRN
"EmvAid"	String	Indicate EMV AID

	[Optional]	
"EmvAppName"	String [Optional]	Indicate EMV app name
"EmvCryptogram"	String [Optional]	Indicate EMV TC or ARQC
"EmvTVR"	String [Optional]	Indicate EMV TVR
"AdditionalInfo"	String [Optional]	
"CardUniqueId"	String [Optional]	The transaction returns the unique identifier of the card. This field is returned when TransType is ReadCard.
"BatchNum"	String [Optional]	Batch number
"CardHolderName"	String [Optional]	Cardholder Name