

POS Terminal MIS Cash Register Interface

(Urovo I9100)

1. API Interface Call

Urovo I9100

·Recall scene: Provide to remote device (PC/PAD), call through remote HTTP interface

·HTTP/HTTPS Request method: POST, request needs to be URL encoded

·Character set: GBK coding

·Call method: `http://YOUR_POS_IP:10021/allinpay`

YOUR_POS_IP is the local IP address of the Allinpay smart terminal.

·Call Example



1.1 Request Parameters Example

JSON Character string

Request example: json character string: `{"BUSINESS_ID":"900100001"}`

Function: input corresponding data of request information

Parameters: key: the key of request data (pay attention to capital letter and lowercase letter); Value: the value of the key

1.2 Return Example

JSON character string response:

Response example: {"MERCH_NAME":"收银宝测试商户","MERCH_ID":"852999958120001",
"TER_ID":"000000001",.....}

If the response of Http status is not 200, the response parameters are not json definitely.

Fields specification

·Amount: 12-digit number, cent as unit, complete the amount by adding 0 on left if the digit numbers are insufficient.

·Voucher number: 6-digit number, complete it by adding 0 on left if the digit numbers are insufficient.

·Authorization code: 6-digit number, complete it by adding 0 on left if the digit numbers are insufficient.

·Date: YYYYMMDD

·Time: 24HHMMSS

·Card Number: Need to be hided in accordance with UnionPay regulations

·TRANS_TICKET_NO: For non-bank card transactions, corresponding to the transaction number in the transaction system

·TRANS_TRACE_NO is the only flow of transactions initiated on the PC side. The reference format is YYYYMMDD + hhmmss + serial number. TRANS_TRACE_NO It is enough to ensure the unique value of ·TRANS_TRACE_NO for each transaction, preferably not more than 20 digits).

· TRANS_ORDER_NO: The order number of the transaction initiated on the PC

·TRANS_TICKET_NO: The order number of the trading system

2. Transaction Interface

2.1 Collection

2.1.1 Collection – Bank Card

The current available credit card organizations are Dinners club and Visa.

Request parameters:

Parameter name	Required	Explanation
OPER_NO		Operator number
BUSINESS_ID	Required	Business type
AMOUNT	Required	amount (12 digit-number, cent as unit, completes it by adding 0 on left if the digit numbers are insufficient)
MEMO		Memo field
TRANS_TRACE_NO	Required	Transaction unique identifier

TRANS_ORDER_NO	Required	Commodity order number
CURRENCY	Required	Currency (refer to Appendix-Currency)
DCC_FLAG		Default EDC transaction (DCC/EDC)
BUS_INFO		expand field

Return Parameters:

Parameter name	Optional	Explanation
BUSINESS_ID	Required	business type
AMOUNT	Required	Amount
CURRENCY	Required	Currency
PAY_CURRENCY		Payment currency
PAY_AMOUNT		Payment amount
EXCHANGE_RATE		exchange rate
ACTUALLY_AMOUNT	Required	The amount actually paid
TRACE_NO	Required	swift number
EXP_DATE	Required	valid date
BATCH_NO	Required	batch number
MERCH_ID	Required	business number

MERCH_NAME	Required	Business name
TER_ID	Required	Terminal number
REF_NO	Required	System reference number
AUTH_NO	Required	Authorization code
REJCODE	Required	return code
CARD_ORGN		Card organization
CARDNO	Required	Card number
DATE	Required	transaction date
TIME	Required	transaction time
REJCODE_CN	Required	return code explanation
MEMO		Memo field
TRANS_TRACE_NO		Transaction unique identifier
BUS_INFO		expand field
OPER_NO		Operator number

2.1.2 Collection – Code Scanning

Request Parameters:

Parameter name	Required	Explanation
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OPER_NO		Operator number
BUSINESS_ID	Required	business type
AMOUNT	Required	amount (12 -digit number, cent as unit, completes it by adding 0 on left if the digit numbers are insufficient)
TRANS_TRACE_NO	Required	Transaction unique identifier
TRANS_ORDER_NO	Required	Commodity order number
CURRENCY	Required	currencies
BUS_INFO		expand field

Return Parameters:

Parameter name	Optional	Explanation
BUSINESS_ID	Required	business type
AMOUNT	Required	amount
CURRENCY	Required	currencies
TRACE_NO	Required	swift number
BATCH_NO	Required	batch number
MERCH_ID	Required	business number
MERCH_NAME	Required	Business name

TER_ID	Required	terminal number
REF_NO		System reference number
REJCODE	Required	return code explanation. When answering AS, the transaction result is unknown, and the inquiry transaction needs to be initiated to obtain the final transaction result.
DATE	Required	transaction date
TIME	Required	transaction time
REJCODE_CN	Required	Return code explanation
TRANS_TRACE_NO		Transaction unique identifier
BUS_INFO		expand field
TRANS_CHANNEL		Payment channel
TRANS_TICKET_NO		Transaction number
OPER_NO		Operator number

2.1.3 Collection – QR Code Payment

Request Parameters:

Parameter name	Required	Explanation
OPER_NO		Operator number

BUSINESS_ID	Required	business type
AMOUNT	Required	amount (12-digit number, cent as unit, if not enough, add 0 to the left)
TRANS_TRACE_NO	Required	Transaction unique identifier
TRANS_ORDER_NO	Required	Commodity order number
CURRENCY	Required	currencies
BUS_INFO		expand field

Return Parameters:

Parameter name	Optional	Explanation
BUSINESS_ID	Required	business type
AMOUNT	Required	amount
CURRENCY	Required	currencies
TRACE_NO	Required	Swift number
BATCH_NO	Required	batch number
MERCH_ID	Required	merchant ID
MERCH_NAME	Required	merchant name
TER_ID	Required	terminal number
REF_NO		System reference number

REJCODE	Required	return code
DATE	Required	transaction date
TIME	Required	transaction time
REJCODE_CN	Required	Return code explanation
TRANS_TRACE_NO		Transaction unique identifier
BUS_INFO		expand field
TRANS_CHANNEL		Payment channel
PRINT_FLAG		Print mark
TRANS_TICKET_NO		Transaction number
OPER_NO		Operator number

Notes: success of the transaction return only means ordering successfully, the final transaction result needs to be gained by inquiry interface.

2.2 Void

2.2.1 Void – Bank Card

Request Parameters:

Parameter name	Required	Explanation
OPER_NO		Operator number

BUSINESS_ID	Required	business type
AMOUNT	Required	amount (12 digit-number, cent as unit, completes it by adding 0 on left if the digit numbers are insufficient)
ORIG_TRACE_NO	Required	Original transaction document number
TRANS_TRACE_NO	Required	Transaction unique identifier
CURRENCY	Required	Currency (Refers to appendix-currencies)
BUS_INFO		Expand field

Return Parameters:

Parameter name	Optional	Explanation
BUSINESS_ID	Required	business type
AMOUNT	Required	amount
TRACE_NO	Required	Swift number
ORIG_TRACE_NO	Required	Original swift number
EXP_DATE		Valid date
BATCH_NO	Required	batch number
MERCH_ID	Required	merchant number
MERCH_NAME	Required	merchant name

TER_ID	Required	terminal number
REF_NO	Required	System reference number
AUTH_NO		Authorization code
REJCODE	Required	Return code
CARD_ORGN		Card organization
CARDNO	Required	card number
DATE	Required	transaction date
TIME	Required	transaction time
REJCODE_CN	Required	Return code explanation
MEMO		remark
TRANS_TRACE_NO		Transaction unique identifier
BUS_INFO		expand field
ORIG_DATE		transaction date
PRINT_FLAG		Print mark
ORIG_REF_NO		Original system reference number
OPER_NO		Operator number

2.2.2 Void – Void by Scanning Code

Request Parameters:

Parameter name	Required	Explanation
OPER_NO		Operator number
BUSINESS_ID	Required	Business type
ORIG_TRACE_NO	Required	Original document number
AMOUNT	Required	amount (12 digit-number, cent as unit, completes it by adding 0 on left if the digit numbers are insufficient)
TRANS_TRACE_NO	Required	Transaction unique identifier
BUS_INFO		expand field

Return Parameters:

Parameter name	Optional	Explanation
BUSINESS_ID	Required	business type
AMOUNT	Required	amount
TRACE_NO	Required	Swift number
ORIG_TRACE_NO	Required	Original swift number
EXP_DATE		Valid date

BATCH_NO	Required	batch number
MERCH_ID	Required	Merchant number
MERCH_NAME	Required	Merchant name
TER_ID	Required	terminal number
REF_NO	Required	System reference number
AUTH_NO		Authorization code
REJCODE	Required	return code
CARD_ORGN	Required	Payment channel
DATE	Required	transaction date
TIME	Required	transaction time
REJCODE_CN	Required	Return code explanation
TRANS_TRACE_NO		Transaction unique identifier
BUS_INFO		expand field
TRANS_CHANNEL		Payment channel
ORIG_DATE		transaction date
PRINT_FLAG		Print mark
OPER_NO		Operator number

2.3 Refund

2.3.1 Refund – Bank Card

Request Parameters:

Parameter name	Required	Explanation
OPER_NO		Operator number
BUSINESS_ID	Required	Business type
AMOUNT	Required	amount (12 digit-number, cent as unit, completes it by adding 0 on left if the digit numbers are insufficient)
ORIG_REF_NO	Required	Original system reference number
ORIG_DATE	Required	Original transaction date
CURRENCY	Required	Currency
TRANS_TRACE_NO	Required	Transaction unique identifier
BUS_INFO		Expand field

Return Parameters:

parameter name	Optional	Explanation
BUSINESS_ID	Required	Business type
AMOUNT	Required	Amount

CURRENCY	Required	Currency
TRACE_NO	Required	Swift number
ORIG_REF_NO	Required	Original system reference number
EXP_DATE	Required	Valid date
BATCH_NO	Required	Batch number
MERCH_ID	Required	Merchant number
MERCH_NAME	Required	Merchant name
TER_ID	Required	Terminal number
REF_NO	Required	System reference number
AUTH_NO	Required	Authorization code
REJCODE	Required	return code
CARD_ORGN		Card organization
CARDNO	Required	card number
DATE	Required	Transaction date
TIME	Required	Transaction time
REJCODE_CN	Required	Return code explanation
TRANS_TRACE_NO		Transaction unique identifier

BUS_INFO		expand field
ORIG_DATE		Original transaction date
PRINT_FLAG		Print mark
OPER_NO		Operator number

2.3.2 Refund – Refund by Scanning Code

Request Parameters:

Parameter name	Required	Explanation
OPER_NO		Operator number
BUSINESS_ID	Required	Business type
ORIG_ TRANS_TICKET_NO	Required	Original transaction number
AMOUNT	Required	amount (12 digit-number, cent as unit, completes it by adding 0 on left if the digit numbers are insufficient)
CURRENCY	Required	Currency
TRANS_TRACE_NO	Required	Transaction unique identifier
BUS_INFO		Expand field

Return Parameters:

Parameter name	Optional	Explanation
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BUSINESS_ID	Required	Business type
AMOUNT	Required	Amount
CURRENCY	Required	Currency
TRACE_NO	Required	Swift number
EXP_DATE		Valid date
BATCH_NO	Required	Batch number
MERCH_ID	Required	Merchant number
MERCH_NAME	Required	Merchant name
TER_ID	Required	Terminal number
REF_NO	Required	System reference number
AUTH_NO		Authorization code
REJCODE	Required	return code
DATE	Required	transaction date
TIME	Required	transaction time
REJCODE_CN	Required	Return code explanation
TRANS_TRACE_NO		Transaction unique identifier
BUS_INFO		Expand field

TRANS_CHANNEL		Payment channel
ORIG_DATE		Original transaction date
ORIG_TRACE_NO		Original swift number
PRINT_FLAG		Print mark
OPER_NO		Operator number

2.4 Inquiry

2.4.1 Transaction Result Inquiry

For the scan code payment in the request timeout or in the clear response processing, this API interface needs to be called to obtain the final payment result.

Request Parameters:

Parameter name	Required	Explanation
OPER_NO		Operator number
BUSINESS_ID	Required	Business type
ORIG_DATE		Original transaction date
TRANS_TRACE_NO	Required	Transaction unique identifier (Consistent with the original transaction)

Return Parameters:

Parameter name	Optional	Explanation
BUSINESS_ID	Required	business type
AMOUNT	Required	Amount
TRACE_NO	Required	Swift number
EXP_DATE		Valid date
BATCH_NO	Required	Batch number
MERCH_ID	Required	Merchant number
MERCH_NAME	Required	Merchant name
TER_ID	Required	Terminal number
REF_NO	Required	System reference number
AUTH_NO		Authorization code
REJCODE	Required	Return code
DATE	Required	Transaction date
TIME	Required	Transaction time
REJCODE_CN	Required	Return code explanation
TRANS_STATE		Trading status (Required when REJCODE is 00, see appendix-transaction status)
TRANS_DESC		Transaction status description

TRANS_TRACE_NO		Transaction unique identifier
TRANS_TICKET_NO		Transaction number
TRANS_CHANNEL		Payment channel
PRINT_FLAG		Print mark
OPER_NO		Operator number
MEMO		Memo field

2.5 Authorization

2.5.1 Pre-authorization

Request parameters:

Parameter name	Required	Explanation
OPER_NO		Operator number
BUSINESS_ID	Required	Business type
AMOUNT	Required	Amount (12 digit-number, cent as unit, completes it by adding 0 on left if the digit numbers are insufficient)
CURRENCY	Required	Currencies
TRANS_TRACE_NO		Transaction unique identifier
BUS_INFO		Expand field

Return Parameters:

Parameter name	Optional	Explanation
BUSINESS_ID	Required	Business type
AMOUNT	Required	Amount
CURRENCY	Required	Currency
TRACE_NO	Required	Swift number
EXP_DATE	Required	Valid date
BATCH_NO	Required	Batch number
MERCH_ID	Required	Merchant number
MERCH_NAME	Required	Merchant name
TER_ID	Required	Terminal number
REF_NO	Required	System reference number
AUTH_NO	Required	Authorization code
REJCODE	Required	Return code
CARDNO	Required	Card number
DATE	Required	Transaction date
TIME	Required	Transaction time
REJCODE_CN	Required	Return code explanation

TRANS_TRACE_NO		Transaction unique identifier
CARD_TYPE_IDENTITY		Debit and Credit Card Identification 0: debit card; 1: credit card
BUS_INFO		Expand field
PRINT_FLAG		Print mark
OPER_NO		Operator number

2.5.2 Pre-authorization Voiding

Request Parameters:

Parameter name	Required	Explanation
OPER_NO		Operator number
BUSINESS_ID	Required	Business type
AMOUNT	Required	Amount (12 digit-number, cent as unit, completes it by adding 0 on left if the digit numbers are insufficient)
ORIG_AUTH_NO	Required	Original authorization number (document number)
TRANS_TRACE_NO		Transaction unique identifier
BUS_INFO		Expand field
CARDNO		card number (If you don't fill it in, the

		card reader/card number interface will pop up)
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Return Parameters:

Parameter name	Optional	Explanation
BUSINESS_ID	Required	Business type
AMOUNT	Required	Amount
TRACE_NO	Required	Swift number
EXP_DATE	Required	Valid date
BATCH_NO	Required	Batch number
MERCH_ID	Required	Merchant number
MERCH_NAME	Required	Merchant name
TER_ID	Required	Terminal number
REF_NO	Required	System reference number
AUTH_NO	Required	Authorization code
REJCODE	Required	Return code
CARDNO	Required	Card number
ORIG_DATE	Required	Original transaction date
DATE	Required	Transaction date

TIME	Required	Transaction time
REJCODE_CN	Required	Return code explanation
TRANS_TRACE_NO		Transaction unique identifier
CARD_TYPE_IDENTITY		Debit and Credit Card Identification 0: debit card; 1: credit card
BUS_INFO		Expand field
PRINT_FLAG		Print mark
OPER_NO		Operator number

2.5.3 Pre-authorization Completion

Request Parameters:

Parameter name	Required	Explanation
OPER_NO		Operator number
BUSINESS_ID	Required	Business type
ORIG_AUTH_NO	Required	Original authorization number
ORIG_DATE	Required	Original transaction date
AMOUNT	Required	Amount (12 digit-number, cent as unit, completes it by adding 0 on left if the digit numbers are insufficient)

CURRENCY	Required	Currency
TRANS_TRACE_NO		Transaction unique identifier
DCC_FLAG		Default EDC transaction (DCC/EDC)
BUS_INFO		Expand field
CARDNO		If you don't fill it in, the card reader/card number interface will pop up)

Return Parameters:

Parameter name	Optional	Explanation
AMOUNT	Required	Amount
CURRENCY	Required	Currency
PAY_CURRENCY		Payment currency
PAY_AMOUNT		Payment amount
EXCHANGE_RATE		Exchange rate
TRACE_NO	Required	Swift number
EXP_DATE	Required	Valid date
BATCH_NO	Required	Batch number
MERCH_ID	Required	Merchant number

MERCH_NAME	Required	Merchant name
TER_ID	Required	Terminal number
REF_NO	Required	System reference number
AUTH_NO	Required	Authorization code
REJCODE	Required	Return code
CARDNO	Required	Card number
ORIG_DATE	Required	Transaction date
DATE	Required	Transaction date
TIME	Required	Transaction time
REJCODE_CN	Required	Return code explanation
TRANS_TRACE_NO		Transaction unique identifier
CARD_TYPE_IDENTITY		Debit and Credit Card Identification 0: debit card; 1: credit card
BUS_INFO		Expand field
ORIG_DATE		Transaction date
PRINT_FLAG		Print mark
BUSINESS_ID		Business type

ORIG_REF_NO		Original system reference number
OPER_NO		Operator number

2.5.4 Voiding of Pre-authorization Completion

Request Parameters:

Parameter name	Required	Explanation
OPER_NO		Operator number
BUSINESS_ID	Required	Business type
ORIG_TRACE_NO	Required	Original swift number
AMOUNT	Required	Amount (12 digit-number, cent as unit, completes it by adding 0 on left if the digit numbers are insufficient)
TRANS_TRACE_NO		Transaction unique identifier
BUS_INFO		Expand field
CARDNO		If you don't fill it in, the card reader/card number interface will pop up)

Return Parameters:

Parameter name	Optional	Explanation
AMOUNT	Required	Amount

TRACE_NO	Required	Swift number
ORIG_TRACE_NO	Required	Original swift number
EXP_DATE	Required	Valid date
BATCH_NO	Required	Batch number
MERCH_ID	Required	Merchant number
MERCH_NAME	Required	Merchant name
TER_ID	Required	Terminal number
REF_NO	Required	System reference number
AUTH_NO	Required	Authorization code
REJCODE	Required	Return code
CARDNO	Required	Card number
DATE	Required	Transaction date
TIME	Required	Transaction time
REJCODE_CN	Required	Return code explanation
TRANS_TRACE_NO		Transaction unique identifier
CARD_TYPE_IDENTITY		Debit and Credit Card Identification 0: debit card 1: credit card

BUS_INFO		Expand field
ORIG_DATE		Original transaction date
PRINT_FLAG		Print mark
BUSINESS_ID		Business type
ORIG_REF_NO		Original system reference number
OPER_NO		Operator number

2.6 Accessibility

2.6.1 Receiving Terminal Master Key

Request Parameters:

Parameter name	Required	Explanation
OPER_NO		Operator number
BUSINESS_ID	Required	Business type

Return Parameters:

Parameter name	Optional	Explanation
MERCH_ID	Required	Merchant number
MERCH_NAME	Required	Merchant name
TER_ID	Required	terminal number

REJCODE	Required	return code
REJCODE_CN	Required	Return code explanation
PRINT_FLAG		Print mark
BUSINESS_ID		business type

2.6.2 Terminal Sign-on

Request Parameters:

Parameter name	Required	Explanation
OPER_NO		Operator number
BUSINESS_ID	Required	Business type

Return Parameters:

Parameter name	Optional	Explanation
BATCH_NO	Required	Batch number
TRACE_NO	Required	Swift number
MERCH_ID	Required	Merchant number
MERCH_NAME	Required	Merchant name
TER_ID	Required	terminal number
REJCODE	Required	return code

REJCODE_CN	Required	Return code explanation
PRINT_FLAG		Print mark
BUSINESS_ID		business type

2.6.3 Terminal Settlement

Request Parameters:

Parameter name	Required	Explanation
OPER_NO		Operator number
BUSINESS_ID	Required	business type

Return Parameters:

Parameter name	Optional	Explanation
BUSINESS_ID	Required	Business type
BATCH_NO	Required	batch number
TRACE_NO	Required	Original swift number
MERCH_ID	Required	Merchant number
MERCH_NAME	Required	Merchant name
TER_ID	Required	terminal number
REJCODE	Required	return code

REJCODE_CN	Required	Return code explanation
TIME		transaction time
DATE		transaction date
PRINT_FLAG		Print mark
OPER_NO		Operator number

2.6.4 Reprinting a receipt

Request Parameters:

Parameter name	Required	Explanation
OPER_NO		Operator number
BUSINESS_ID	Required	Business type
ORIG_TRACE_NO	Required	Original swift number
TRANS_TRACE_NO		Transaction unique identifier

Return parameters:

Parameter name	Optional	Explanation
AMOUNT	Required	Amount
TRACE_NO	Required	Swift number
ORIG_TRACE_NO		Original swift number

ORIG_REF_NO		Original system reference number
EXP_DATE		valid date
BATCH_NO	Required	batch number
MERCH_ID	Required	Merchant number
MERCH_NAME	Required	Merchant name
TER_ID	Required	Terminal number
REF_NO	Required	System reference number
AUTH_NO		Authorization code
REJCODE	Required	Return code
CARD_ORGN		Card organization or Wallet agency
CARDNO		Card number
DATE	Required	Transaction date
TIME	Required	Transaction time
REJCODE_CN	Required	Return code explanation
TRANS_TRACE_NO	Required	Transaction unique identifier
BUS_INFO		Expand field
PRINT_FLAG		Print mark

BUSINESS_ID		Business type
OPER_NO		Operator number

2.7 Foreign Service

2.7.1 Getting Device Information

Request Parameters:

Parameter name	Required	Explanation
BUSINESS_ID	Required	Business type

Return parameters:

Parameter name	Optional	Explanation
BUSINESS_ID	Required	Business type
SN	Required	device serial number
MODEL	Required	Device model
VENDOR	Required	Terminal brand
VERSIONCODE	Required	Driver version number
CERTIFICATION	Required	Network license number
REJCODE	Required	return code
REJCODE_CN	Required	Return code explanation

PRINT_FLAG		Print mark
MERCH_ID		Merchant number
MERCH_NAME		Merchant name
TER_ID		terminal number

3. Parameters Description

Card Logo (CARD_ORGN Property) Reference Table

Card category	Card organization name	Return value
Union pay	UNION	00
VISA	VISA	01
Master card	Master Card	02
JCB	JCB	03
Dinners club	Dinner Club	04
American express	American Express	05

Payment Channel (TRANS_CHANNEL Property)

Category	Organization name	Return value
Alipay wallet	Alibaba	ALP
Wechat wallet	Tencent	WXP

union pay	UnionPay International	UNP
PayNow	PayNow	PNP

Business Type (BUSINESS_ID Property)

Transaction Type	Corresponding request	remark
BUSI_SALE_BANK	100100001	Bank card payment
BUSI_SALE_QR	100300001	scan QR code to pay
BUSI_SALE_SCAN	100300002	QR Code payment
BUSI_VOID_BANK	200100001	Bank card cancellation
BUSI_VOID_QR	200300001	Scan QR code payment cancellation
BUSI_REFUND_BANK	300100001	Bank card return goods
BUSI_REFUND_QR	300300001	Scan QR code for returns
BUSI_AUTH_BANK	500100001	Pre-authorization, only bank cards are supported
BUSI_AUTH_VOID_BANK	510100001	Revocation of pre-authorization, only

		bank cards are supported
BUSI_AUTH_CM_BANK	520100001	Pre-authorization is complete, only bank cards are supported
BUSI_AUTH_CM_VOID_BANK	530100001	The pre-authorization is cancelled, only bank cards are supported
BUSI_QUERY_ORDER_RESULT	600000002	Payment result inquiry
BUSI_MANAGER_TRANS_LOAD_MKEY	900100030	Receive terminal master key
BUSI_MANAGER_TRANS_LOGON	900100001	Terminal sign in
BUSI_MANAGER_TRANS_SETTLE	900100002	Terminal settlement
BUSI_MANAGER_TRANS_REPRINT	900100010	Reprint the purchase order
BUSI_MANAGER_LAST_TRANS_REPRINT	900100020	Reprint the purchase order
BUSI_MANAGER_TRANS_REPRINT_SETTLE	900100011	Reprint statement
BUSI_MANAGER_TRANS_PRINT_DETAIL	900100012	Print transaction

		details
BUSI_MANAGER_TRANS_PRINT_TOTAL	900100013	Print transaction summary
BUSI_MANAGER_SERVICE_READCARD	900300001	Card reading information
BUSI_MANAGER_SERVICE_GET_BASIC_INFO	900300005	Get device information
BUSI_MANAGER_APP_CONFIG	900200002	parameter settings

Transaction State (TRANS_STATE Field)

State	Description
PAIED	Paid
FAIL	Payment failed
PAYING	paying
RETURNED	Returned
VOID	Voided
REVOKED	Revoked

Currency (CURRENCY Field)

Currency	CODE
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HKD	HKD
CNY	RMB
SGD	SGD

Return Code (REJCODE Field)

Response	Description
01	Please ask the cardholder to contact the card-issuing bank
03	Invalid merchant
04	This card is invalid (POS)
05	Cardholder authentication failed
06	Error
07	Card confiscation in specific condition
09	In the process of transaction
10	Display part of the approved amount and prompt the operator
11	This is a VIP customer
12	Invalid transaction
13	Invalid amount
14	Invalid card number

15	There is no corresponding issuer for this card
17	Cancelation by customers
18	The transaction quota corresponding to customer deposits is insufficient, please contact your company.
19	Your account balance is insufficient for refunding, please initiate the refunding again after recharging.
20	Invalid respond
21	The card is not initialized or inactivated card
22	The operation is wrong, or the number of days allowed for the transaction has been exceeded
23	Unacceptable transaction fee
25	No original transaction, please contact the card issuer
30	Please try again
31	The issuing bank is not available
32	The card unaccepted by merchants
33	Expired card
34	Cheating card, swallowed card
35	Please contact the company
36	Restricted card

37	Suspicious card, please contact the company
38	The number of incorrect passwords exceeds the limit, please contact the card issuer
39	Non-credit account
40	Transactions not supported by the card issuer
4000	High octet data is null
4001	Low octet data is null
4002	TLK data is null
4003	TMK data is null
4004	TAK data is null
4005	TDK data is null
4006	TPK data is null
4007	Swift code data is null
4008	Batch code data is null
4009	Communication time-out data is null
4010	Transaction number data is null
4011	Current transaction number data is null
4012	Reversal times data is null

4013	p address data is null
4014	port number data is null
4015	tpdu data is null
4016	terminal number data is null
4017	merchant number data is null
4018	merchant name data is null
4019	EMV parameters data needs to be downloaded is null
4020	Public key data needs to be downloaded is null
4021	The data on maximum refund amount is null
4022	The data on tips switch is null
4023	The data on tips rate is null
4024	The data on current off-line transaction number is null
4025	The data on receipt number is null
4026	The data on manual input card number is null
4028	The data on whether voiding by card swiping is null
4029	The data on whether voiding by inserting password is null
4030	The data on testing reversal is null.

4031	The pin encryption is incorrect.
4032	Magnetic track 2 encryption is incorrect.
4033	There is no magnetic track 2 data.
4034	Amount decoding fails
4035	Mac encryption sending is incorrect.
41	It is a loss report card, please confiscate it.
42	The account doesn't exist.
43	Stolen card
44	The investment account doesn't exist.
45	Transaction by degrading methods is unallowable, please swipe or insert the card.
51	Insufficient available balance
52	The checking account does not exist.
53	The deposit card account doesn't exist.
54	The card has expired
55	Wrong password
56	The record of this card doesn't exist.
57	This card is not allowed for transaction

58	The card issuer does not allow the card to conduct this transaction on this terminal
59	Card verification error
60	Please contact the company
61	The transaction amount exceeds the limit
62	Restricted card
63	Invasion of security
64	The transaction amount does not match the original transaction
65	Exceeding withdrawal/consumption times limit
66	Please contact the company
67	Enforcement (required to confiscate the card in ATM)
68	Transaction times out, please try again
75	The times of incorrect passwords exceeds the limit
76	Invalid account
80	Transaction refusal
90	The system is daily settling, please try again later
91	The issuer's status is abnormal, please try again later
92	The issuer line is abnormal, please try again later

93	It cannot be completed since the transaction is illegal.
94	Decline, repeat transaction, please try again later
95	Errors collation
96	The exchange center is abnormal, please try again later
97	The terminal number is not registered
98	Issuer timed out
99	PIN format is wrong, please sign in again
A0	MAC check error, please sign in again
A1	Difference in the transfer currencies
A2	Error in the initialization password
A3	Expiry of the initialization password