

# e-Buy 4.0

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# Introduction

## Purpose

This is a integration system protocol between Cashier Terminal and Backend system.

To enable the Cashier Terminal and [e-Buy backend](#) payment and redemption business real-time transaction process and synchronization, reduce reconciliation errors, facilitate business transaction in real-time integration to [e-Buy backend](#) system, in order to support multiple business transaction demand, such as multiple payment method and redemption method.

## Physical Architecture

Network found or type unknown

### Network illustration

- 1. Cashier POS and [MIS-POS](#) integration is thru USB port or serial port, each Cashier Terminal is thru network connection.
- 2. Each store (include 1 or more cashier POS) is connected thru Public VPN back to [e-Buy Backend](#).
- 3. [e-Buy Backend](#) is connected to each Credit card banking system thru leased line.

## Logic Architecture

Middleware found or type unknown

### Flow illustration:

- 1. Cashier POS initiates the payment transaction, including the related transaction information to push to the [e-Buy Backend](#).
- 2. [e-Buy Backend](#) will process as per type of transaction provided. If required, corresponding data will send to the Card Issued Organization to process accordingly. At final, will return back the result to the Cashier POS.

# Glossory

## Socket

Communication is based on TCP/IP

## MIS-POS

Installed in merchants in-store POS machine, providing the operation activity to support and exchange function

## e-Buy POSP

A group / set of network equipment and server to process [e-Buy POS](#) all transaction activity

## BCD

Binary numeric representation format, such as 0x99, it represents the value of 99

## TLV

Communication protocol commonly used data formats, Comprise 3 parts: "Tag", "Length" & "Value"

## PINPAD

PIN entry device

## e-Buy POS

Same as [MIS-POS](#), the device is installed in merchant on-site, providing the operation activity to support and exchange function

# e-Buy Backend

A group /set of equipment / server to process all the transaction from [e-Buy POS](#)

## Middleware

Individual operation in cashier terminal, monitoring the local port, it will also download the key and auto sign in, auto update and prompt transaction options

# API Introduction

# Invoke Method

Content	Description
Protocal	HTTP/HTTPS
HTTP Method	POST (application/json)
Message Type	JSON
Charset	UTF-8
Signature Algorithm	MD5



# Parameter Object

## Goods Detail

- JSON Key `goodsDetail`, mandatory

Field	Type	Mandatory	Description	Memo
goodsCategory	String	Yes	Goods Category	
goodsId	String	Yes	Goods ID	
goodsName	String	Yes	Goods Name	Used for report , receipt, slip printing
price	Price	Yes	Price	Unit : dollar
quantity	Integer	Yes	Quantity	
rebateCode	String	No	Rebate Code	Cashier Terminal has pre-set the discount, mandated
activityNo	String	No	Activity No	Once <a href="#">e-Buy backend</a> system confirm transaction success, a transaction activity number will return back
memo	String	No	Memo	Once <a href="#">e-Buy backend</a> system confirm transaction success, some information will return such as electronic voucher number

## Fund Channel

- JSON Key is `fundChannel`, only in Response message, not mandatory

Field	Type	Mandatory	Description	Memo
channelNo	String	Yes	Channel No	Channel No

Field	Type	Mandatory	Description	Memo
channelName	String	Yes	Channel Name	Channel Name
channelAmount	Price	Yes	Channel Amount	Channel Amount

- supported fund channel[]

channelNo	channelName	Description
user_real_money	User paid real money	Example[]Alipay balance[]Alipay Yuebao[]Wechat balance[]Debit Card or Credit card etc.
user_balance	paid by user balance	Example[]Alipay balance[]Alipay Yuebao[]Wechat balance etc.
user_bank_card	paid by user bank card	Example[]Debit Card or Credit card
user_credit	paid by user e-Wallet credit	Example[]Alipay huabei[]ingdong credit
user_points	paid by user points	Example[]Credit card points[]Tmall Points etc.
merchant_benefit	the benefit provided by merchant	Example[]Merchant discount[]Merchant voucher etc.
platform_benefit	the benefit provided by enterprise	Example[]Payment platform discount, Payment platform voucher etc.
ebuy_benefit	the benefit provided by e-Buy	Example[]e-Buy discount, e-Buy voucher etc

## Print Detail

- JSON Key is `printDetail`, only in Response message, not mandatory

Field	Type	Mandatory	Description	Memo
cardNo64	String	No	The card number (first 6 digits and last 4 digits)	The card number (first 6 digits and last 4 digits) is required to print as part of return message
bank	String	No	Credit Card issued organization	The Credit Card issued organization is required to print as part of return message

Field	Type	Mandatory	Description	Memo
paymentOrderNo	String	No	Payment Order no.	Payment order no. is required to print as part of return message
paymentUser	String	No	User account	User account need be printed.
pointSale	String	No	Point deducted	Point deducted is required to print as part of return message
qrCode1	String	No	Print QR code 1	QR code 1 is required to print as part of return message
qrCode2	String	No	Print QR code 2	QR code 2 is required to print as part of return message
qrCode3	String	No	Print QR code 3	QR code 3 is required to print as part of return message
barCode1	String	No	Print Bar Code 1	Bar Code code 1 is required to print as part of return message
barCode2	String	No	Print Bar Code 2	Bar Code code 2 is required to print as part of return message
barCode3	String	No	Print Bar Code 3	Bar Code code 3 is required to print as part of return message
content	String	No	Print Content	<a href="#">TLV</a> Format[]1F=Receipt title[]2F=Receipt transtype
printMode	String	No	Print Mode	1=1 Receipt[]2=2 Receipts[]3=3 Receipts

## Member Detail

- JSON Key is `memberDetail`, not mandatory

Field	Type	Mandatory	Description	Memo
memberId	String	Yes	Member ID	
memberName	String	Yes	Member Name	
memberPhone	String	No	Member Mobile	
grade	String	No	Member Grade	
status	String	No	Member Status	
balance	String	No	Balance	
pointBalance	String	No	Point Balance	

## Settle Record

- JSON Key is `settleRecord`, not mandatory

Field	Type	Mandatory	Description	Memo
activityNo	String	Yes	Activity No	
activityName	String	Yes	Activity Name	
productName	String	Yes	Product Name	
customer	String	Yes	Settle Customer	
isRefund	Boolean	Yes	Is Refund	
volume	Integer	Yes	Transaction Volume	
totalReceiptAmount	Price	Yes	Merchant Receipt Amount	
totalAmount	Price	Yes	Total Amount	

## Trans Record

- JSON Key is `transRecord`, mandatory

Field	Type	Mandatory	Description	Memo
traceNo	String	Yes	Cashier terminal trace no.	
paidAmount	String	Yes	Paid Amount	
status	String	Yes	Match status	See detail

**status**

- 0 Initial
- 1 paidAmount [e-Buy Backend](#) = request
- 2 paidAmount [e-Buy Backend](#) > request
- 3 paidAmount [e-Buy Backend](#) < request
- 4 Does not exist in [e-Buy Backend](#)
- 5 Failed in [e-Buy Backend](#)
- 6 Reversed in [e-Buy Backend](#)
- 7 Rolled back in [e-Buy Backend](#)
- 8 Refunded in [e-Buy Backend](#)
- 9 [e-Buy Backend](#) process failed
- 10 [e-Buy Backend](#) has, but Does not exist in Cashier POS

# Transaction API

# Bank Acquiring

## Transaction Flow

- The requested transaction will firstly invoke [MIS-POS](#) for Card swape and password input. Once [MIS-POS](#) confirmed on both inputs, it will send back to [e-Buy backend](#) server to process.

## action

- `cardPayment`

## Request body `Cashier POS` [=> e-Buy Backend](#)

Field	Type	Mandatory	Description	Memo
traceNo	String	Yes	Cashier terminal trace no.	No repeat
totalAmount	Price	Yes	Total transaction amount	Unit : Dollar
undiscountAmount	Price	Yes	undiscountable Amount	Unit : Dollar
acquirer	String	Yes	Acquirer Bank	Example <code>citicCashpay</code>
goodsDetail	List< <a href="#">goodsDetail</a> >	Yes	Goods detail	Mandated on goods detail verification
memberDetail	Object< <a href="#">memberDetail</a> >	No	Member information	Mandated on member payment

## Request body example

```
{
  "traceNo": "99000009100010101732123",
  "totalAmount": 40.8,
  "undiscountAmount": 0,
  "acquirer": "citicCashpay",
  "goodsDetail": [
    {
```

```

    "goodsCategory": "001",
    "goodsId": "P00001",
    "goodsName": "☐☐",
    "price": 8,
    "quantity": 2,
    "rebateCode": "000"
  },
  {
    "goodsCategory": "101",
    "goodsId": "P00002",
    "goodsName": "☐☐☐",
    "price": 24.8,
    "quantity": 1,
    "rebateCode": "000"
  }
],
"memberDetail": {
  "memberId": "M000001545",
  "memberName": "TONY",
  "grade": "1",
  "status": "1",
  "balance": 1000.00,
  "pointBalance": 30000
}
}

```

## Response body **e-Buy Backend**====>Cashier POS

Field	Type	Mandatory	Description	Memo
traceNo	String	Yes	Cashier terminal trace no.	No repeat
orderNo	String	Yes	Order No. from e-Buy	☐☐☐☐
transDate	String	Yes	Transaction time	Format☐yyyyMMddHHmmss
returnCode	String	Yes	Return code	00 represent successful transaction, else represent fail
returnDesc	String	Yes	Return message	Detail explanation / error message per transaction result

Field	Type	Mandatory	Description	Memo
paidAmount	Price	Yes	Total amount paid	Face Value. Unit : Dollar
receiptAmount	Price	No	Merchant actual received amount	Net Value. Unit : Dollar
invoiceAmount	Price	No	Merchant invoice amount	Unit : Dollar
exchangeRate	Number(8,6)	No	Exchange Rate	The rate of conversion the currency given in the request to CNY.
currency	String	No	Currency	For example: CNY
discountCode	String	No	Discount Code	assigned by Cashier POS,XXXXXXXXXX20161200XXXX20X
discountNum	Number	No	numbers of discountCode	XXXXXXXXXX
tenderCode	String	No	Tender Code	assigned by Cashier POS,XXXXXXXXXX20161200XXXX20X
activityProductNo	String	No	Activity Product no.	
activityProductName	String	No	Activity Product name	
needSameCard	Boolean	No	Required same card payment	Such as discount upon amount reached, same credit card must be used for the payment
goodsDetail	List< <a href="#">goodsDetail</a> >	No	Paid product detail	Backend response paid product detail
fundChannel	List< <a href="#">fundChannel</a> >	No	Channel of fund	
printDetail	Object< <a href="#">printDetail</a> >	No	Printing message	Provided if required to print on the receipt
memberDetail	Object< <a href="#">memberDetail</a> >	No	Member information	Member info return message on this transaction

## Response body example

```
{
  "traceNo": "99000009100010101732123",
  "orderNo": "171698602301",
```

```
"transDate": "20161231120533",
"returnCode": "00",
"returnDesc": "SUCCESS",
"paidAmount": 40.8,
"receiptAmount": 40.8,
"invoiceAmount": 40.8,
"exchangeRate": 6.0939,
"currency": "CNY",
"discountCode": "0001",
"discountNum": 20,
"tenderCode": "8001",
"activityProductNo": "2016123101",
"activityProductName": "365",
"needSameCard": true,
"goodsDetail": [
  {
    "goodsCategory": "001",
    "goodsId": "P00001",
    "goodsName": "",
    "price": 8,
    "quantity": 2,
    "rebateCode": "000",
    "activityNo": "2016123101",
    "memo": "100123456789"
  },
  {
    "goodsCategory": "101",
    "goodsId": "P00002",
    "goodsName": "",
    "price": 24.8,
    "quantity": 1,
    "rebateCode": "000",
    "activityNo": "2016123101",
    "memo": "100123456789"
  }
],
"fundChannel": [
  {
    "channelNo": "001",
    "channelName": "ATM",
```

```
    "channelAmount": "20.8"
  },
  {
    "channelNo": "002",
    "channelName": "□□□□",
    "channelAmount": "20"
  }
],
"printDetail": {
  "cardNo64": "622562****8888",
  "bank": "□□□",
  "paymentOrderNo": "201612315689412157458787",
  "pointSale": "20000",
  "qrCode1": "htt://www.xxx.com/url",
  "qrCode2": "",
  "qrCode3": "",
  "barCode1": "12345679",
  "barCode2": "",
  "barCode3": ""
},
"memberDetail": {
  "memberId": "M000001545",
  "memberName": "TONY",
  "grade": "1",
  "status": "1",
  "balance": 1000.00,
  "pointBalance": 30000
}
}
```

# Card Redemption

## Usage

- Bank loyalty point redemption
- Bank Loyalty point redemption + Cash payment
- Bank privilege verification
- Bank privilege verification + Cash Payment
- Prepay Card payment
- Member Card payment

## Transaction Flow

- The requested transaction will firstly invoke [MIS-POS](#) for Card swape and password input. Once [MIS-POS](#) confirmed on both inputs, it will send back to [e-Buy backend](#) server to process.

## action

- `cardRedemption`

### Request body `Cashier POS` ==> [e-Buy Backend](#)

Field	Type	Mandatory	Description	Memo
traceNo	String	Yes	Cashier terminal trace no.	No repeat[ ]yyyyMMddHH mmss+10[ ]
totalAmount	Price	Yes	Total transaction amount	Unit : Dollar
undiscountAmount	Price	Yes	undiscountable Amount	Unit : Dollar
goodsDetail	List< <a href="#">goodsDetail</a> >	Yes	Goods detail	Mandated on goods detail verification
memberDetail	Object< <a href="#">memberDetail</a> >	No	Member information	Mandated on member payment

## Request body example

```

{
  "traceNo": "99000009100010101732123",
  "totalAmount": 40.8,
  "undiscountAmount": 0,
  "goodsDetail": [
    {
      "goodsCategory": "001",
      "goodsId": "P00001",
      "goodsName": "□□",
      "price": 8,
      "quantity": 2,
      "rebateCode": "000"
    },
    {
      "goodsCategory": "101",
      "goodsId": "P00002",
      "goodsName": "□□□",
      "price": 24.8,
      "quantity": 1,
      "rebateCode": "000"
    }
  ],
  "memberDetail": {
    "memberId": "M000001545",
    "memberName": "TONY",
    "grade": "1",
    "status": "1",
    "balance": 1000.00,
    "pointBalance": 30000
  }
}

```

## Response body e-Buy Backend ==> Cashier POS

Field	Type	Mandatory	Description	Memo
traceNo	String	Yes	Cashier terminal trace no.	No repeat
orderNo	String	Yes	Order No. from e-Buy	□□□□
transDate	String	Yes	Transaction time	Format□yyyyMMddHHmmss

Field	Type	Mandatory	Description	Memo
returnCode	String	Yes	Return code	00 represent successful transaction, else represent fail
returnDesc	String	Yes	Return message	Detail explanation / error message per transaction result
paidAmount	Price	Yes	Total amount paid	Face Value. Unit : Dollar
receiptAmount	Price	No	Merchant actual received amount	Net Value. Unit : Dollar
invoiceAmount	Price	No	Merchant invoice amount	Unit : Dollar
exchangeRate	Number(8,6)	No	Exchange Rate	The rate of conversion the currency given in the request to CNY.
currency	String	No	Currency	For example: CNY
discountCode	String	No	Discount Code	assigned by Cashier POS
discountNum	Number	No	numbers of discountCode	□□□□□□□□
tenderCode	String	No	Tender Code	assigned by Cashier POS,□□□□□□□□□□20161200□□□□20□
activityProductNo	String	No	Activity Product no.	
activityProductName	String	No	Activity Product name	
needSameCard	Boolean	No	Required same card payment	Such as discount upon amount reached, same credit card must be used for the payment
goodsDetail	List< <a href="#">goodsDetail</a> >	No	Paid product detail	Backend response paid product detail
fundChannel	List< <a href="#">fundChannel</a> >	No	Channel of fund	
printDetail	Object< <a href="#">printDetail</a> >	No	Printing message	Provided if required to print on the receipt
memberDetail	Object< <a href="#">memberDetail</a> >	No	Member information	Member info return message on this transaction

## Response body example

```
{
  "traceNo": "99000009100010101732123",
  "orderNo": "171698602301",
  "transDate": "20161231120533",
  "returnCode": "00",
  "returnDesc": "SUCCESS",
  "paidAmount": 40.8,
  "receiptAmount": 40.8,
  "invoiceAmount": 40.8,
  "exchangeRate": 6.0939,
  "currency": "CNY",
  "discountCode": "0001",
  "discountNum": 20,
  "tenderCode": "8001",
  "activityProductNo": "2016123101",
  "activityProductName": "☐☐365☐☐",
  "needSameCard": true,
  "goodsDetail": [
    {
      "goodsCategory": "001",
      "goodsId": "P00001",
      "goodsName": "☐☐",
      "price": 8,
      "quantity": 2,
      "rebateCode": "000",
      "activityNo": "2016123101",
      "memo": "100123456789"
    },
    {
      "goodsCategory": "101",
      "goodsId": "P00002",
      "goodsName": "☐☐☐",
      "price": 24.8,
      "quantity": 1,
      "rebateCode": "000",
      "activityNo": "2016123101",
      "memo": "100123456789"
    }
  ]
}
```

```
],
"fundChannel": [
  {
    "channelNo": "001",
    "channelName": "□□□□",
    "channelAmount": "20.8"
  },
  {
    "channelNo": "002",
    "channelName": "□□□□",
    "channelAmount": "20"
  }
],
"printDetail": {
  "cardNo64": "622562****8888",
  "bank": "□□□",
  "paymentOrderNo": "201612315689412157458787",
  "pointSale": "20000",
  "qrCode1": "htt://www.xxx.com/url",
  "qrCode2": "",
  "qrCode3": "",
  "barCode1": "12345679",
  "barCode2": "",
  "barCode3": ""
},
"memberDetail": {
  "memberId": "M000001545",
  "memberName": "TONY",
  "grade": "1",
  "status": "1",
  "balance": 1000.00,
  "pointBalance": 30000
}
}
```

# Qrcode Sale

## Usage

- Alipay
- Wechat Payment
- QR-Code Payment from Bank
- QR-Code point redeem from Bank
- QR-Code Payment from China UnionPay
- Baidu Payment
- Bestpay
- Other QR-Code Payment
- Product coupon/cash coupon/discount coupon/Buy M Get N Free coupon /Deduct coupon
- Take out or Self booking order

## Transaction Flow

- The transaction process will collect QR code message thru scanning or direct input through keypad, and it will send to [e-Buy backend](#) server after collection to further process.

## action

- `qrcodeSale`

### Request body `Cashier POS` ==> [e-Buy Backend](#)

Field	Type	Mandatory	Description	Memo
traceNo	String	Yes	Cashier terminal trace no.	No repeat
totalAmount	Price	Yes	Total transaction amount	Unit : Dollar
undiscountAmount	Price	Yes	Undiscountable Amount	Unit : Dollar
qrcode	String	Yes	QR-Code	□□□□□□□□
goodsDetail	List< <a href="#">goodsDetail</a> >	Yes	Goods detail	Mandated on goods detail verification

Field	Type	Mandatory	Description	Memo
memberDetail	Object< <a href="#">memberDetail</a> >	No	Member information	Mandated for member payment

## Request body example

```
{
  "traceNo": "99000009100010101732123",
  "totalAmount": 40.8,
  "undiscountAmount": 0,
  "qrcode": "280123121234567890",
  "goodsDetail": [
    {
      "goodsCategory": "001",
      "goodsId": "P00001",
      "goodsName": "□□",
      "price": 8,
      "quantity": 2,
      "rebateCode": "000"
    },
    {
      "goodsCategory": "101",
      "goodsId": "P00002",
      "goodsName": "□□□",
      "price": 24.8,
      "quantity": 1,
      "rebateCode": "000"
    }
  ],
  "memberDetail": {
    "memberId": "M000001545",
    "memberName": "TONY",
    "grade": "1",
    "status": "1",
    "balance": 1000.00,
    "pointBalance": 30000
  }
}
```

**Response body e-Buy Backend====>Cashier POS**

Field	Type	Mandatory	Description	Memo
traceNo	String	Yes	Cashier terminal trace no.	No repeat
orderNo	String	Yes	Order No. from e-Buy	made by Ebuy
transDate	String	Yes	Transaction time	Format[]yyyyMMddHHmmss
returnCode	String	Yes	Return code	00 represent successful transaction, else represent fail
returnDesc	String	Yes	Return message	Detail explanation / error message per transaction result
paidAmount	Price	Yes	Total amount paid	Face Value. Unit : Dollar
receiptAmount	Price	No	Merchant actual received amount	Net Value. Unit : Dollar
invoiceAmount	Price	No	Merchant invoice amount	Unit : Dollar
exchangeRate	Number(8,6)	No	Exchange Rate	The rate of conversion the currency given in the request to CNY.
currency	String	No	Currency	For example: CNY
discountCode	String	No	Discount Code	assigned by Cashier POS
discountNum	Number	No	numbers of discountCode	□□□□□□□□
tenderCode	String	No	Tender Code	assigned by Cashier POS,record payment method[]like[]2016120101 20.00 is payment 20yuan
activityProductNo	String	No	Activity Product no.	
activityProductName	String	No	Activity Product name	
goodsDetail	List<goodsDetail>	No	Paid product detail	Backend response paid product detail
fundChannel	List<fundChannel>	No	Channel of fund	

Field	Type	Mandatory	Description	Memo
printDetail	Object< <a href="#">printDetail</a> >	No	Printing message	Provided if required to print on the receipt
memberDetail	Object< <a href="#">memberDetail</a> >	No	Member information	Member info return message on this transaction

## Response body example

```
{
  "traceNo": "99000009100010101732123",
  "orderNo": "171698602301",
  "transDate": "20161231120533",
  "returnCode": "00",
  "returnDesc": "SUCCESS",
  "paidAmount": 40.8,
  "receiptAmount": 40.8,
  "invoiceAmount": 40.8,
  "exchangeRate": 6.0939,
  "currency": "CNY",
  "discountCode": "0001",
  "discountNum": 20,
  "tenderCode": "8001",
  "activityProductNo": "2016123102",
  "activityProductName": "□□□□",
  "goodsDetail": [
    {
      "goodsCategory": "001",
      "goodsId": "P00001",
      "goodsName": "□□",
      "price": 8,
      "quantity": 2,
      "rebateCode": "000",
      "activityNo": "2016123101",
      "memo": "100123456789"
    },
    {
      "goodsCategory": "101",
      "goodsId": "P00002",
      "goodsName": "□□□",

```

```
    "price": 24.8,
    "quantity": 1,
    "rebateCode": "000",
    "activityNo": "2016123101",
    "memo": "100123456789"
  }
],
"fundChannel": [
  {
    "channelNo": "001",
    "channelName": "□□□□",
    "channelAmount": "20.8"
  },
  {
    "channelNo": "002",
    "channelName": "□□□□",
    "channelAmount": "20"
  }
],
"printDetail": {
  "cardNo64": "622562****8888",
  "bank": "□□□",
  "paymentOrderNo": "201612315689412157458787",
  "paymentUser": "139****@163.com",
  "pointSale": "20000",
  "qrCode1": "htt://www.xxx.com/url",
  "qrCode2": "",
  "qrCode3": "",
  "barCode1": "12345679",
  "barCode2": "",
  "barCode3": ""
},
"memberDetail": {
  "memberId": "M000001545",
  "memberName": "TONY",
  "grade": "1",
  "status": "1",
  "balance": 1000.00,
  "pointBalance": 30000
}
```



# Trans Inquiry

## Usage

- Invoke this API to inquiry last transaction result when it is timed out.

## action

- `inquiry`

### Request body `Cashier POS` $\implies$ `e-Buy Backend`

Field	Type	Mandatory	Description	Memo
traceNo	String	Yes	Cashier trace no.	No repeat
originalTraceNo	String	Yes	Original Cashier trace no.	□□□□□□□□□□

## Request body example

```
{
  "traceNo": "99000009100010101732123",
  "originalTraceNo": "99000009100010101732124"
}
```

### Response body `e-Buy Backend` $\implies$ `Cashier POS`

Field	Type	Mandatory	Description	Memo
traceNo	String	Yes	Cashier terminal trace no.	No repeat
orderNo	String	Yes	Order No. from e-Buy	Unit <code>Dollar</code>
transDate	String	Yes	Transaction time	Format <code>yyyyMMddHHmmss</code>
returnCode	String	Yes	Return code	00 represent successful transaction, else represent fail

Field	Type	Mandatory	Description	Memo
returnDesc	String	Yes	Return message	Detail explanation / error message per transaction result
paidAmount	Price	Yes	Total amount paid	Face Value. Unit : Dollar
receiptAmount	Price	No	Merchant actual received amount	Net Value. Unit : Dollar
invoiceAmount	Price	No	Merchant invoice amount	Unit : Dollar
exchangeRate	Number(8,6)	No	Exchange Rate	The rate of conversion the currency given in the request to CNY.
currency	String	No	Currency	For example: CNY
discountCode	String	No	Discount Code	assigned by Cashier POS[ ]20161 0[ ]10[ ]
discountNum	Number	No	numbers of discountCode	[ ]
tenderCode	String	No	Tender Code	assigned by Cashier POS[ ]20161 0[ ]20[ ]
activityProductNo	String	No	Activity Product no.	
activityProductName	String	No	Activity Product name	
needSameCard	Boolean	No	Required same card payment	Such as discount upon amount reached, same credit card must be used for the payment
goodsDetail	List< <a href="#">goodsDetail</a> >	No	Paid product detail	Backend response paid product detail
fundChannel	List< <a href="#">fundChannel</a> >	No	Channel of fund	
printDetail	Object< <a href="#">printDetail</a> >	No	Printing message	Provided if required to print on the receipt

Field	Type	Mandatory	Description	Memo
memberDetail	Object< <a href="#">memberDetail</a> >	No	Member information	Member info return message on this transaction

## Response body example

```
{
  "traceNo": "99000009100010101732123",
  "orderNo": "171698602301",
  "transDate": "20161231120533",
  "returnCode": "00",
  "returnDesc": "SUCCESS",
  "paidAmount": 40.8,
  "receiptAmount": 40.8,
  "invoiceAmount": 40.8,
  "exchangeRate": 6.0939,
  "currency": "CNY",
  "discountCode": "0001",
  "discountNum": 20,
  "tenderCode": "8001",
  "activityProductNo": "2016123102",
  "activityProductName": "□□□□",
  "needSameCard": true,
  "goodsDetail": [
    {
      "goodsCategory": "001",
      "goodsId": "P00001",
      "goodsName": "□□",
      "price": 8,
      "quantity": 2,
      "rebateCode": "000",
      "activityNo": "2016123101",
      "memo": "100123456789"
    },
    {
      "goodsCategory": "101",
      "goodsId": "P00002",
      "goodsName": "□□□",

```

```
    "price": 24.8,
    "quantity": 1,
    "rebateCode": "000",
    "activityNo": "2016123101",
    "memo": "100123456789"
  }
],
"fundChannel": [
  {
    "channelNo": "001",
    "channelName": "□□□□",
    "channelAmount": "20.8"
  },
  {
    "channelNo": "002",
    "channelName": "□□□□",
    "channelAmount": "20"
  }
],
"printDetail": {
  "cardNo64": "622562****8888",
  "bank": "□□□",
  "paymentOrderNo": "201612315689412157458787",
  "pointSale": "20000",
  "qrCode1": "htt://www.api-location-url.com/url",
  "qrCode2": "",
  "qrCode3": "",
  "barCode1": "12345679",
  "barCode2": "",
  "barCode3": ""
},
"memberDetail": {
  "memberId": "M000001545",
  "memberName": "TONY",
  "grade": "1",
  "status": "1",
  "balance": 1000.00,
  "pointBalance": 30000
}
}
```

# Transaction support inquiry

- cardSale
- qrcodeSale

# Trans Void(card)

## Usage

- Invoke this API to reverse a transaction that dedicated by originalTraceNo.

## Transaction Flow

- The requested transaction will send to [e-Buy backend](#) server, it will firstly invoke [MIS-POS](#) for Card swipe and password input. Once [MIS-POS](#) confirmed on both inputs, it will send back to [e-Buy backend](#) server to process.

## action

- `voidCardSale`

### Request body $\square$ Cashier POS $\implies$ e-Buy Backend

Field	Type	Mandatory	Description	Memo
traceNo	String	Yes	Cashier terminal trace no.	No repeat
originalTraceNo	String	Yes	last Cashier terminal trace no.	Cashier terminal trace no. in last transaction
acquirer	String	No	Acquirer Bank	Example $\square$ citicCashpay $\square$

## Request body example

```
{
  "traceNo": "99000009100010101732123",
  "originalTraceNo": "99000009100010101732124",
  "acquirer": "citicCashpay"
}
```

### Response body $\square$ e-Buy Backend $\implies$ Cashier POS

Field	Type	Mandatory	Description	Memo
-------	------	-----------	-------------	------

traceNo	String	Yes	Cashier terminal trace no.	No repeat
orderNo	String	Yes	Order No. from e-Buy	
transDate	String	Yes	Transaction time	Format[]yyyyMMddHHmmss
returnCode	String	Yes	Return code	00 represent successful transaction, else represent fail
returnDesc	String	Yes	Return message	Detail explanation / error message per transaction result
discountCode	String	No	Discount Code	assigned by Cashier POS
tenderCode	String	No	Tender Code	assigned by Cashier POS,record payment method[]like[]2016120101 20.00 is payment 20yuan
fundChannel	List<fundChannel>	No	Channel of fund	
printDetail	Object<printDetail>	No	Printing message	Provided if required to print on the receipt
memberDetail	Object<memberDetail>	No	Member information	Member info return message on this transaction

## Response body example

```
{
  "traceNo": "99000009100010101732123",
  "orderNo": "171698602301",
  "transDate": "20161231120533",
  "returnCode": "00",
  "returnDesc": "SUCCESS",
  "discountCode": "0001",
  "tenderCode": "8001",
  "fundChannel": [
    {
      "channelNo": "001",
      "channelName": "[]",
      "channelAmount": "20.8"
    }
  ],
}
```

```
{
  "channelNo": "002",
  "channelName": "□□□□",
  "channelAmount": "20"
}
],
"printDetail": {
  "cardNo64": "622562****8888",
  "bank": "□□□",
  "paymentOrderNo": "201612315689412157458787",
  "pointSale": "20000",
  "qrCode1": "htt://www.api-location-url.com/url",
  "qrCode2": "",
  "qrCode3": "",
  "barCode1": "12345679",
  "barCode2": "",
  "barCode3": ""
},
"memberDetail": {
  "memberId": "M000001545",
  "memberName": "TONY",
  "grade": "1",
  "status": "1",
  "balance": 1000.00,
  "pointBalance": 30000
}
}
```

## Transaction support void

- cardPayment
- cardRedemption

# Trans Void(qrcode)

## Usage

- Invoke this API to reverse a transaction that dedicated by originalTraceNo.

## action

- `voidQrcodeSale`

### Request body `Cashier POS` $\implies$ `e-Buy Backend`

Field	Type	Mandatory	Description	Memo
traceNo	String	Yes	Cashier terminal trace no.	No repeat
originalTraceNo	String	Yes	last Cashier terminal trace no.	Cashier terminal trace no. in last transaction

## Request body example

```
{
  "traceNo": "99000009100010101732123",
  "originalTraceNo": "99000009100010101732124"
}
```

### Response body `e-Buy Backend` $\implies$ `Cashier POS`

Field	Type	Mandatory	Description	Memo
traceNo	String	Yes	Cashier terminal trace no.	No repeat
orderNo	String	Yes	Order No. from e-Buy	
transDate	String	Yes	Transaction time	Format <code>[yyyyMMddHHmmss]</code>
returnCode	String	Yes	Return code	00 represent successful transaction, else represent fail

Field	Type	Mandatory	Description	Memo
returnDesc	String	Yes	Return message	Detail explanation / error message per transaction result
discountCode	String	No	Discount Code	assigned by Cashier POS
tenderCode	String	No	Tender Code	assigned by Cashier POS,record payment method like 2016120101 20.00 is payment 20yuan
fundChannel	List<fundChannel>	No	Channel of fund	
printDetail	Object<printDetail>	No	Printing message	Provided if required to print on the receipt
memberDetail	Object<memberDetail>	No	Member information	Member info return message on this transaction

## Response body example

```
{
  "traceNo": "99000009100010101732123",
  "orderNo": "171698602301",
  "transDate": "20161231120533",
  "returnCode": "00",
  "returnDesc": "SUCCESS",
  "discountCode": "0001",
  "tenderCode": "8001",
  "fundChannel": [
    {
      "channelNo": "001",
      "channelName": "□□□□□",
      "channelAmount": "20.8"
    },
    {
      "channelNo": "002",
      "channelName": "□□□□□",
      "channelAmount": "20"
    }
  ],
  "printDetail": {
```

```
"cardNo64": "622562****8888",
"bank": "□□□□",
"paymentOrderNo": "201612315689412157458787",
"pointSale": "20000",
"qrCode1": "htt://www.api-location-url.com/url",
"qrCode2": "",
"qrCode3": "",
"barCode1": "12345679",
"barCode2": "",
"barCode3": ""
},
"memberDetail": {
  "memberId": "M000001545",
  "memberName": "TONY",
  "grade": "1",
  "status": "1",
  "balance": 1000.00,
  "pointBalance": 30000
}
}
```

## Transaction support void

- qrcodeSale

# Trans Refund(card)

## Usage

- Invoke this API to refund a transaction that dedicated by originalTraceNo.

## Transaction Flow

- The requested transaction will firstly invoke [MIS-POS](#) for Card swape and password input. Once [MIS-POS](#) confirmed on both inputs, it will send back to [e-Buy backend](#) server to process.

## action

- `refundCardSale`

### Request body [Cashier POS](#)====>[e-Buy Backend](#)

Field	Type	Mandatory	Description	Memo
traceNo	String	Yes	Cashier terminal trace no.	No repeat
originalTraceNo	String	Yes	last Cashier terminal trace no.	Cashier terminal trace no. in last transaction
refundAmount	Price	Yes	Refund Amount	Unit <input type="checkbox"/> Dollar
acquirer	String	No	Acquirer Bank	Example <input type="checkbox"/> citicCashpay

## Request body example

```
{
  "traceNo": "99000009100010101732123",
  "originalTraceNo": "99000009100010101732124",
  "refundAmount": 40.8,
  "acquirer": "citicCashpay"
}
```

### Response body [e-Buy Backend](#)====>[Cashier POS](#)

Field	Type	Mandatory	Description	Memo
traceNo	String	Yes	Cashier terminal trace no.	No repeat
orderNo	String	Yes	Order No. from e-Buy	
transDate	String	Yes	Transaction time	Format[]yyyyMMddHHmmss
returnCode	String	Yes	Return code	00 represent successful transaction, else represent fail
returnDesc	String	Yes	Return message	Detail explanation / error message per transaction result
refundAmount	Price	Yes	Refunded Amount	Unit[]Dollar
discountCode	String	No	Discount Code	assigned by Cashier POS
tenderCode	String	No	Tender Code	assigned by Cashier POS,record payment method[]like[]2016120101 20.00 is payment 20yuan
fundChannel	List<fundChannel>	No	Channel of fund	
printDetail	Object<printDetail>	No	Printing message	Provided if required to print on the receipt
memberDetail	Object<memberDetail>	No	Member information	Member info return message on this transaction

## Response body example

```
{
  "traceNo": "99000009100010101732123",
  "orderNo": "171698602301",
  "transDate": "20161231120533",
  "returnCode": "00",
  "returnDesc": "SUCCESS",
  "discountCode": "0001",
  "tenderCode": "8001",
```

```
"refundAmount": 40.8,
"fundChannel": [
  {
    "channelNo": "001",
    "channelName": "□□□□",
    "channelAmount": "20.8"
  },
  {
    "channelNo": "002",
    "channelName": "□□□□",
    "channelAmount": "20"
  }
],
"printDetail": {
  "cardNo64": "622562****8888",
  "bank": "□□□",
  "paymentOrderNo": "201612315689412157458787",
  "pointSale": "20000",
  "qrCode1": "htt://www.api-location-url.com/url",
  "qrCode2": "",
  "qrCode3": "",
  "barCode1": "12345679",
  "barCode2": "",
  "barCode3": ""
},
"memberDetail": {
  "memberId": "M000001545",
  "memberName": "TONY",
  "grade": "1",
  "status": "1",
  "balance": 1000.00,
  "pointBalance": 30000
}
}
```

## Transaction support refund

- cardPayment
- CardRedemption

# Trans Refund(qrcode)

## Usage

- Invoke this API to refund a transaction that dedicated by originalTraceNo.

## action

- `refundQrcodeSale`

### Request body `Cashier POS` `====>e-Buy Backend`

Field	Type	Mandatory	Description	Memo
traceNo	String	Yes	Cashier terminal trace no.	No repeat
originalTraceNo	String	Yes	last Cashier terminal trace no.	Cashier terminal trace no. in last transaction
refundAmount	Price	Yes	Refund Amount	Unit <code>Dollar</code>

## Request body example

```
{
  "traceNo": "99000009100010101732123",
  "originalTraceNo": "99000009100010101732124",
  "refundAmount": 40.8
}
```

### Response body `e-Buy Backend` `====>Cashier POS`

Field	Type	Mandatory	Description	Memo
traceNo	String	Yes	Cashier terminal trace no.	No repeat
orderNo	String	Yes	Order No. from e-Buy	

Field	Type	Mandatory	Description	Memo
transDate	String	Yes	Transaction time	Format[]yyyyMMddHHmmss
returnCode	String	Yes	Return code	00 represent successful transaction, else represent fail
returnDesc	String	Yes	Return message	Detail explanation / error message per transaction result
refundAmount	Price	Yes	Refunded Amount	Unit[]Dollar
discountCode	String	No	Discount Code	assigned by Cashier POS
tenderCode	String	No	Tender Code	assigned by Cashier POS,record payment method[]like[]2016120101 20.00 is payment 20yuan
fundChannel	List<fundChannel>	No	Channel of fund	
printDetail	Object<printDetail>	No	Printing message	Provided if required to print on the receipt
memberDetail	Object<memberDetail>	No	Member information	Member info return message on this transaction

## Response body example

```
{
  "traceNo": "99000009100010101732123",
  "orderNo": "171698602301",
  "transDate": "20161231120533",
  "returnCode": "00",
  "returnDesc": "SUCCESS",
  "refundAmount": 40.8,
  "discountCode": "0001",
  "tenderCode": "8001",
  "fundChannel": [
    {
      "channelNo": "001",
```

```
    "channelName": "□□□□",
    "channelAmount": "20.8"
  },
  {
    "channelNo": "002",
    "channelName": "□□□□",
    "channelAmount": "20"
  }
],
"printDetail": {
  "cardNo64": "622562****8888",
  "bank": "□□□",
  "paymentOrderNo": "201612315689412157458787",
  "pointSale": "20000",
  "qrCode1": "htt://www.api-location-url.com/url",
  "qrCode2": "",
  "qrCode3": "",
  "barCode1": "12345679",
  "barCode2": "",
  "barCode3": ""
},
"memberDetail": {
  "memberId": "M000001545",
  "memberName": "TONY",
  "grade": "1",
  "status": "1",
  "balance": 1000.00,
  "pointBalance": 30000
}
}
```

## Transaction support refund

- qrcodeSale

# Ecoupon Inquiry

## Usage

- Inquiry product detail \ balance \ activity of this coupon, support e-Buy Ecoupon and thirdparty ecoupon.

## Transaction Flow

- The transaction process will collect QR code message thru scanning or direct input through keypad, and it will send to [e-Buy backend](#) server after collection to further process.

## action

- `ecouponInquiry`

### Request body $\square$ Cashier POS $\implies$ [e-Buy Backend](#)

Field	Type	Mandatory	Description	Memo
traceNo	String	Yes	Cashier terminal trace no.	No repeat
qrcode	String	Yes	ecoupon code	ecoupon code for inquiry

## Request body example

```
{
  "traceNo": "99000009100010101732123",
  "qrcode": "HDCP00000000001235"
}
```

### Response body [e-Buy Backend](#) $\implies$ Cashier POS

Field	Type	Mandatory	Description	Memo
traceNo	String	Yes	Cashier terminal trace no.	No repeat

Field	Type	Mandatory	Description	Memo
orderNo	String	Yes	Order No. from e-Buy	Unit : dollar
transDate	String	Yes	Transaction time	Format[]yyyyMMddHHmmss
returnCode	String	Yes	Return code	00 represent successful transaction, else represent fail
returnDesc	String	Yes	Return message	Detail explanation / error message per transaction result
canPayAmount	Price	Yes	Balance of this coupon	Unit : dollar
activityProductNo	String	No	Activity Product no.	The activity Product no. this coupon belongs to
activityProductName	String	No	Activity Product name	The activity Product name this coupon belongs to

## Response body example

```
{
  "traceNo": "99000009100010101732123",
  "orderNo": "171698602301",
  "transDate": "20161231120533",
  "returnCode": "00",
  "returnDesc": "SUCCESS",
  "canPayAmount": 40.8,
  "activityProductNo": "2016123101",
  "activityProductName": "[]365[]"
}
```

# Point Accumulating

## Usage

- Points accumulating

## action

- `accumulating`

Request body  Cashier POS  [e-Buy Backend](#)

Field	Type	Mandatory	Description	Memo
traceNo	String	Yes	Cashier terminal trace no.	No repeat
totalAmount	Price	Yes	Total transaction amount	Unit : Dollar
undiscountAmount	Price	No	Undiscountable Amount	Unit : Dollar
activityNo	String	No	Activity NO	□□□□□□□□,□□□□□□
points	Integer	No	Points	□□□□□□□□,□□□□□□
goodsDetail	List< <a href="#">goodsDetail</a> >	No	Goods detail	Mandated on goods detail verification
memberDetail	Object< <a href="#">memberDetail</a> >	No	Member information	Mandated for member payment

## Request body example

```
{
  "traceNo": "99000009100010101732123",
  "totalAmount": 40.8,
  "undiscountAmount": 0,
  "activityNo": "2016121901",
  "points": 100,
  "goodsDetail": [
    {
```

```

    "goodsCategory": "001",
    "goodsId": "P00001",
    "goodsName": "☐☐",
    "price": 8,
    "quantity": 2,
    "rebateCode": "000"
  },
  {
    "goodsCategory": "101",
    "goodsId": "P00002",
    "goodsName": "☐☐☐",
    "price": 24.8,
    "quantity": 1,
    "rebateCode": "000"
  }
],
"memberDetail": {
  "memberId": "M000001545",
  "memberName": "TONY",
  "grade": "1",
  "status": "1",
  "balance": 1000.00,
  "pointBalance": 30000
}
}

```

## Response body e-Buy Backend====>Cashier POS

Field	Type	Mandatory	Description	Memo
traceNo	String	Yes	Cashier terminal trace no.	No repeat
orderNo	String	Yes	Order No. from e-Buy	☐☐☐☐
transDate	String	Yes	Transaction time	Format☐yyyyMMddHHmmss
returnCode	String	Yes	Return code	00 represent successful transaction, else represent fail
returnDesc	String	Yes	Return message	Detail explanation / error message per transaction result

Field	Type	Mandatory	Description	Memo
activityProductNo	String	No	Activity Product no.	
activityProductName	String	No	Activity Product name	
printDetail	Object< <a href="#">printDetail</a> >	No	Printing message	Provided if required to print on the receipt
memberDetail	Object< <a href="#">memberDetail</a> >	No	Member information	Member info return message on this transaction

## Response body example

```
{
  "traceNo": "99000009100010101732123",
  "orderNo": "171698602301",
  "transDate": "20161231120533",
  "returnCode": "00",
  "returnDesc": "SUCCESS",
  "activityProductNo": "2016123102",
  "activityProductName": "□□□□□",
  "printDetail": {
    "cardNo64": "622562****8888",
    "bank": "□□□□",
    "paymentOrderNo": "201612315689412157458787",
    "pointSale": "20000",
    "qrCode1": "htt://www.xxx.com/url",
    "qrCode2": "",
    "qrCode3": "",
    "barCode1": "12345679",
    "barCode2": "",
    "barCode3": ""
  },
  "memberDetail": {
    "memberId": "M000001545",
    "memberName": "TONY",
    "grade": "1",
    "status": "1",
    "balance": 1000.00,
    "pointBalance": 30000
  }
}
```



# Management API

# Daily Summary

## Usage

- Invoke this API to summarize success transactions between current and last summary.

## action

- `summary`

### Request body `Cashier POS` $\implies$ `e-Buy Backend`

Field	Type	Mandatory	Description	Memo
traceNo	String	Yes	Cashier terminal trace no.	No repeat

## Request body example

```
{
  "traceNo": "99000009100010101732123"
}
```

### Response body `e-Buy Backend` $\implies$ `Cashier POS`

Field	Type	Mandatory	Description	Memo
traceNo	String	Yes	Cashier terminal trace no.	No repeat
transDate	String	Yes	Transaction time	Format <code>[yyyyMMddHHmmss]</code>
returnCode	String	Yes	Return code	00 represent successful transaction, else represent fail
returnDesc	String	Yes	Return message	Detail explanation / error message per transaction result

Field	Type	Mandatory	Description	Memo
settleRecord	List< <a href="#">settleRecord</a> >	Yes	Settle Record	
beginDate	String	Yes	Settle start	Format[]yyyyMMddHHmmss
endDate	String	Yes	Settle end	Format[]yyyyMMddHHmmss
volume	Integer	Yes	Transaction Volume	Sum of volume in settleRecord
totalReceiptAmount	Price	Yes	Merchant Receipt Amount	Sum of totalReceiptAmount in settleRecord
totalAmount	Price	Yes	Total Amount	Sum of totalAmount in settleRecord

## Response body example

```
{
  "traceNo": "99000009100010101732123",
  "transDate": "20161231102201",
  "returnCode": "00",
  "returnDesc": "SUCCESS",
  "settleRecord": [
    {
      "activityNo": "2016101201",
      "activityName": "□□□□□□",
      "productName": "□□",
      "customer": "□□□",
      "isRefund": false,
      "volume": 130,
      "totalReceiptAmount": "2082.10",
      "totalAmount": "2082.10"
    },
    {
      "activityNo": "2016120301",
      "activityName": "□□□",
      "productName": "□□□□",
      "customer": "□□□□",
      "isRefund": false,
      "volume": 100,

```

```
    "totalReceiptAmount": "234.10",  
    "totalAmount": "234.10"  
  }  
],  
"beginDate": "20161029113602",  
"endDate": "20161030113602",  
"volume": 230,  
"totalReceiptAmount": 1900,  
"totalAmount": 2000,  
}
```

# Batch Upload

## Usage

- Batch upload transaction records to [e-Buy Backend](#), and will be matched and return. Only support the transactions within 7 Days.

## action

- `batchUpload`

### Request body Cashier POS e-Buy Backend

Field	Type	Mandatory	Description	Memo
traceNo	String	Yes	Cashier terminal trace No.	No repeat allowed
transCount	Integer	Yes	Upload size	Should equals to size of transRecord list
beginTime	String	Yes	Begin Time	Format <code>[]yyyyMMddHHmmss</code>
endTime	String	Yes	End Time	Format <code>[]yyyyMMddHHmmss</code>
transRecord	List< <a href="#">transRecord</a> >	Yes	Transaction records	Maximum <code>[]5000</code>

## Request body example

```
{
  "traceNo": "99000009100010101732123",
  "transCount": 3,
  "beginTime": "20161231102201",
  "endTime": "20161231102230",
  "transRecord": [
    {
      "traceNo": "99000009100010101732123",
      "paidAmount": 100.00,
      "status": 0
    }
  ]
}
```

```

},
{
  "traceNo": "99000009100010101732123",
  "paidAmount": 200.00,
  "status": 0
},
{
  "traceNo": "99000009100010101732123",
  "paidAmount": 300.00,
  "status": 0
}
]
}

```

## Response body [Buy Backend](#)====>Cashier POS

Field	Type	Mandatory	Description	Memo
traceNo	String	Yes	Cashier terminal trace No.	No repeat allowed
transDate	String	Yes	Transaction time	Format[]yyyyMMddHHmmss
returnCode	String	Yes	Return code	00 represent successful transaction, else represent fail
returnDesc	String	Yes	Return message	Detail explanation / error message per transaction result
transRecord	List< <a href="#">transRecord</a> >	Yes	Transaction records after match	Maximum[]5000

## Response body example

```

{
  "traceNo": "99000009100010101732123",
  "transDate": "20161231120533",
  "returnCode": "00",
  "returnDesc": "SUCCESS",
  "transRecord": [
    {
      "traceNo": "99000009100010101732123",

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"paidAmount": 100.00,  
"status": 1  
},  
{  
  "traceNo": "99000009100010101732123",  
  "paidAmount": 200.00,  
  "status": 2  
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{  
  "traceNo": "99000009100010101732123",  
  "paidAmount": 300.00,  
  "status": 3  
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]  
}
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