

ALIPAY & WECHAT

Online Payment

Interface Document

V1.3.1

Version revision log

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2019-02-04	Add Business code(2010) function	V1.0.1	Lucas
2021-11-16	2013 API add Alipay+ pay method	V1.2.6	Lucas
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Chapter 1 Overview

1.1. Target reader

The main target reader of this article is the technical implementers who dock Starpay cross-border payment platform, some of which can also be used for reference by managers and business personnel.

1.2. Terminology

SN	Term name	Explain
1	Platform	Starpay cross-border payment platform
2	Mechanism	The access side of the platform can synchronize business information and initiate payment by background instruction.
3	Merchant	A merchant is a supplier of goods or services. The merchant can be online or offline, and the institution will send the transaction instructions to complete the collection.
4	Access number	The institution submits business information to Starpay, and the platform returns a unique identification number.

Chapter 2 Interface description

Message specification is an important part of Starpay cross-border payment platform technical standards, which specifies the order, format, semantics and processing specifications of messages exchanged between organizations and platforms. This chapter introduces the general structure and common elements of the payment platform message. Specific messages used in the Starpay cross-border payment platform are described separately in various business implementation specifications.

2.1. Message structure

The communication between the organization and Starpay cross-border payment platform adopts HTTPS protocol. The message parameters are in JSON format. The specific request

message format can be referred to the interface specification.

Note: Message parameters in interface are case sensitive.

2.1.1. Request message

Common parameters for request message:

Parameter	Type	Required	Length	Describe
access_id	string	Y	32	Access number assigned to the organization by the platform
version	string	Y	3	Interface version number, Default 1.0
timestamp	string	Y	19	Time stamp,format yyyy-MM-dd HH:mm:ss
format	string	Y	10	Request data format, support only JSON
type	string	Y	4	Message type, See the interface specification.
content	string	Y	-	See “interface specification”
sign	string	Y	512	See “ Message signature ”

2.1.2. Response message

The response message format is JSON format.

The common parameters are as follows:

Parameter	Type	Required	Length	Describe
access_id	string	Y	32	Access number assigned to the organization by the platform
type	string	Y	4	Message type, See the interface specification.
version	string	Y	3	Interface version number, Default 1.0
format	string	Y	10	Request data format, support only JSON
code	string	Y	4	Response code
msg	string	Y	128	Response message
error	string	Y	255	Error message

timestamp	string	Y	19	Time stamp,format yyyy-MM-dd HH:mm:ss
content	string	N	-	Response parameter collection (when the synchronization response fails, this parameter is empty).
sign	string	Y	512	See “ Message signature ”

2.1.3. Institutional certificate configuration

Using the Openssl tool to generate the corresponding public and private key, the steps are as follows:

1) Using OpenSSL tools to generate certificates

① Generate private key

```
OpenSSL> genrsa -out app_private_key.pem 2048
```

Note: Java developers need to convert their private key to PKCS8 format,Use the command:

```
OpenSSL> pkcs8 -topk8 -inform PEM -in app_private_key.pem -outform PEM -nocrypt -out app_private_key_pkcs8.pem
```

② Generate public key

```
OpenSSL> rsa -in app_private_key.pem -pubout -out app_public_key.pem
```

2) Certificate information configuration

① Submit public key

The public key file is submitted to the Starpay platform, and the public key is configured by the platform to the institutional information.

② Configuring the private key

Access mechanism keeps private key in code, Need to be deleted “-----BEGIN RSA PRIVATE KEY-----” and “-----END RSA PRIVATE KEY-----” and spaces and line breaks(\r\n).

2.2. Message signature

Follow these steps to generate the contents of the message "sign" field.

1) Generating summary(Hash Value)

“content” field content needs to be generated using MD5(32 bit),And replace “content”

content with abstracts.

Attention: The MD5 value does not need to be capitalized

2) Screening and sorting

Get all request parameters, Meanwhile, Excludes byte type parameters, such as files, byte streams, and sign fields and empty parameter .And according to the first character's key value ASCII code ascending sort (alphabetical ascending order),If the same character is encountered, the ASCII code is incremented according to the second key of the character, and so on...

3) Splicing

The sort parameters and their corresponding values are combined into the format of "parameter = parameter value".

And connect these parameters with '&' character, and the generated string is the signature string to be signed.

4) Calling signature function

Using the SHA256WithRSA signature function corresponding to their respective languages, the signature string is signed using the merchant's private key, And Base64 coding.

2.3. Interface address

TYPE			URL
Front-end	data	stream	https://api.starpay.es.com/aps-gateway/gateway.do
(Gateway)			
Background data stream			https://api.starpay.es.com/aps-gateway/entry.do

Chapter 3 Interface specification

3.1. Interface description

Type	Transaction code	Response mode
Merchant information inquiry	1004	Synchronous response

Official Accounts Payment	2001	Asynchronous response
Scan to pay(URL String)	2003	Synchronous / asynchronous response
Barcode/QRcode pay	2004	Synchronous / asynchronous response
Transaction asynchronous notification	2005	N/A
Transaction query	2006	Synchronous response
Refund request	2007	Synchronous / asynchronous response
Asynchronous notification of refund	2008	N/A
Asynchronous notification of refund	2009	asynchronous response
Scan to pay(Base64 String)	2010	Synchronous / asynchronous response
Wechat Miniprogram Pay	2012	Synchronous / asynchronous response
WEB ONLINE PAYMENT	2013	Synchronous / asynchronous response
Payment cancellation request	2014	Synchronous response
Reconciliation file download	3001	Synchronous response

3.2. Interface list

3.2.1.(1004)Merchant information inquiry

- Interface description

Institutions query the registered merchants information through this interface, and judge whether the merchants are registered successfully by "response code" (R000 indicates successful registration).

- Request method

Background data stream(Synchronous response accepted results)

- Content of request message

Parameter	Type	Require	Lengt	Describe
-----------	------	---------	-------	----------

		d	h	
merchantNo	string	Y	50	Merchant number
merchantAccessNo	string	Y	50	Merchant access number

Note: merchantNo and merchantAccessNo choose one of them.

- Reply message content

Parameter	Type	Required	Length	Describe
merchantType	string	Y	2	Merchant type:01- individual, 02- enterprise
merchantAccessNo	string	Y	50	Merchant access number
merchantNo	string	Y	50	Merchant number
merchantName	string	Y	50	Name of the merchant
merchantAbbName	string	Y	20	Merchant abbreviation
merchantAddress	string	Y	200	Address of merchant
countryCode	string	N	3	The national code is GBR by default.
provinceCode	string	Y	16	Area code, defaults to GBR
cityCode	string	Y	16	Province code
districtCode	string	N	16	District and county code
contactName	string	Y	50	Contact name
contactTel	string	Y	20	Contact Telephone Number
contactPhone	string	Y	16	Contact mobile phone number
contactEmail	string	N	50	Contact email
website	string	N	100	Website URL
legalName	string	Y	50	Legal person name
legalIdType	string	Y	2	Type of legal person certificate: 01- ID card
legalIdNo	string	Y	30	Corporate identity number
merchantCardType	string	Y	2	Merchant certificate type: 01 business license

merchantCardNo	string	Y	40	Business license number
beginTermTime	string	N	8	Date of validity of merchant Certificate (Format: yyyyMMdd)
endTermTime	string	N	8	Expiry date of merchant certificate
settleType	string	Y	2	Liquidation type: 00 direct liquidation 01 non direct liquidation(currently only supporting non direct liquidation)
settleAccountInfo	string	Y		Merchant account information
--bankAccountType	string	Y	2	Account type:00 Private 01 Public
--bankType	string	Y	10	Bank alias
--bankNo	string	Y	30	The settlement bank area code (Sort Code); when the currency is EUR, it is 6 digits.
--accountName	string	Y	30	Account name
--accountNo	string	Y	30	Bank account number and currency EUR are 8 digits.
--currency	string	N	3	Only support EUR for the time being. See "currency".
payments	string	Y		Supported payment channels (support multiple)
--paymentType	string	Y	2	Payment type:01 WeChat
--category	string	Y	30	Category, see WeChat category for details.
--bindStatus	string	Y	2	Bound state:00 failure 01 success
--bindDesc	string	N	255	Binding description
fees	string	Y		Details of costs (support for multiple)
--timeType	string	Y	2	Settlement cycle: 00 T0 Settlement of the day 01 T1 (temporarily does not support T0)

--feeType	string	Y	2	Cost type: 00 transaction 01 withdraw
--feeParam	string	Y	10	When the fee type is a transaction, the decimal point retains three digits (percentage), such as 0.100 input, representing one thousandth; when the fee type is withdraw, representing each transaction fee.
businessScope	string	Y	255	Business scope, minimum 10 characters.
statusCode	string	Y	4	Response code
statusDesc	string	Y	255	Response description

3.2.2.(2001)Official Accounts Payment

- Interface description

Pay users to complete the order and initiate payment on Wechat Official Accounts page. Through the front-page request, the organization submits data to the platform to guide users to complete payment through the Official Accounts.

Application Scene: H5 online payment, static QRcode payment, etc.

- Request method

Front-end data stream (form post)

- Content of request message

Parameter	Type	Required	Length	Describe
merchantAccessNo	string	Y	50	Merchant access number
orderNo	string	Y	50	Merchant order number (unique)
channelType	string	Y	50	ChannelType Alipay: ALIPAY WeChat:WECHAT

orderAmt	numeric	Y	16	Order amount (unit: pence) currency minimum unit
subject	string	Y	50	Order subject
orderDesc	string	N	256	Order description
currency	string	Y	3	Currency, default EUR
storeNo	string	N	50	The number of shops is not filled or filled with 000.
terminalNo	string	N	50	Merchant terminal number
employeeNo	string	N	50	Merchant staff number
retUrl	string	N	256	Foreground notification address (URL)
bgRetUrl	string	Y	256	Background notification address
remark	string	N	256	Reserved field (asynchronous notification will be returned to merchants).

- Return content synchronously, see [2.1.2 response message](#).

3.2.3.(2002)Official Accounts Payment

- Interface description

Pay users to complete the order and initiate payment on Wechat Official Accounts page. Through the front-page request, the organization submits data to the platform to guide users to complete payment through the Official Accounts. This interface will return a payment address for the access party to complete the payment.

Application Scene: H5 online payment

- Request method

Background request

- Content of request message

Parameter	Type	Required	Length	Describe
merchantAccessNo	string	Y	50	Merchant access number

orderNo	string	Y	50	Merchant order number (unique)
orderAmt	numeric	Y	16	Order amount (unit: pence) currency minimum unit
subject	string	Y	50	Order subject
orderDesc	string	N	256	Order description
currency	string	Y	3	Currency, default EUR
storeNo	string	N	50	The number of shops is not filled or filled with 000.
terminalNo	string	N	50	Merchant terminal number
employeeNo	string	N	50	Merchant staff number
retUrl	string	N	256	Foreground notification address (URL)
bgRetUrl	string	Y	256	Background notification address
remark	string	N	256	Reserved field (asynchronous notification will be returned to merchants).

- Return content synchronously

Parameter	Type	Required	Length	Describe
coreUrl	string	Y	255	H5 payment page address, please redirect to this address on the H5 page to guide the customer to complete the payment

3.2.4.(2003) Scan to pay (Return the QR code value in the form of a string)

- Interface description

The mechanism sends payment requests through the interface, and the platform returns the payment link address of the qrcode. The mechanism displays the qrcode and pays the user to scan the code for payment.

Application Scene: PC online payment, dynamic qrcode code payment, etc.

- Request method

Background data stream

● Content of request message

Parameter	Type	Required	Length	Describe
merchantAccessNo	string	Y	50	Merchant access number
orderNo	string	Y	50	Merchant order number (unique)
orderAmt	numeric	Y	16	Order amount (unit: pence)
subject	string	Y	50	Order subject
orderDesc	string	N	256	Order description
currency	string	Y	3	Currency, default EUR
storeNo	string	Y	50	The number of shops is not allowed to be empty, The default value is 000.
terminalNo	string	N	50	Merchant terminal number
employeeNo	string	N	50	Merchant staff number
bgRetUrl	string	Y	256	Foreground notification address (URL)
retUrl	string	Y	256	Reception callback address After the payment is completed at the cashier of the Web terminal, it will be called back to the changed address
remark	string	N	256	Reserved field

● Return content synchronously

Parameter	Type	Required	Length	Describe
merchantAccessNo	string	Y	50	Merchant access number
orderNo	string	Y	50	Merchant order number (unique)
coreUrl	string	Y	255	The data used to generate the link of qrcode is displayed to the user for scan

code payment.

3.2.5.(2004)Barcode & Qrcode Pay

- Interface description

The merchant sends the corresponding transaction request information through this interface, waits for the platform to process, asynchronously returns to the merchant to pay the result.

Application Scene: scanning box payment, scanning gun payment, etc.

- Request method

Background data stream

- Content of request message

Parameter	Type	Required	Length	Describe
merchantAccessNo	string	Y	50	Merchant access number
authCode	string	Y	50	Authorization code (barcode), scanned by a scanning gun.
orderNo	string	Y	50	Merchant order number (unique)
orderAmt	numeric	Y	16	Order amount
subject	string	Y	50	Order subject
orderDesc	string	N	256	Order description
currency	string	Y	3	Currency, default EUR
storeNo	string	N	50	The number of shops is not filled or filled with 000.
terminalNo	string	N	50	Merchant terminal number
employeeNo	string	N	50	Merchant staff number
bgRetUrl	string	Y	256	Foreground notification address (URL)
remark	string	N	256	Reserved field

- Synchronous response message content

Parameter	Type	Required	Length	Describe
merchantAccessNo	string	Y	50	Merchant access number
orderNo	string	Y	50	Platform order number
merOrderNo	string	Y		Institutional merchant order number
payCurrency	string	Y		Currency
payType	string	Y		Payment type
payAmt	string	Y		Amount of payment
acctDate	string	N		Accounting date (format: yyyyMMdd)
tradeStatus	string	Y		Transaction status, reference "response code"
tradeMsg	string	N		Transaction status description
remark	string	N		Reserved fields (formerly returned to merchants)

3.2.6. (2005) Transaction asynchronous notification

- Interface description

If the organization fails to receive the final result synchronously after initiating the payment transaction, it needs to wait for the platform to initiate the notification through this interface, and the platform will notify the organization actively when the channel is clear. After receiving the notification message, the merchant needs to return the "SUCCESS" synchronously.

If the platform does not receive the corresponding synchronous response information (SUCCESS), it notifies the merchant five times in a five-minute decline mode.

- Request method

Background data stream

- Content of request message

Parameter	Type	Required	Length	Describe
merchantAccessNo	string	Y	50	Merchant access number

orderNo	string	Y	50	Platform order number
merOrderNo	string	Y	50	Institutional merchant order number
orderCurrency	string	Y	3	Currency, ,such as EUR
orderAmt	string	Y	16	Order amount
payCurrency	string	Y	3	Payment of currencies, such as CNY
payAmt	string	Y	16	Amount of payment
acctDate	string	Y	8	Accounting date (format: yyyyMMdd)
tradeStatus	string	Y	32	Transaction status, reference "response code"
tradeMsg	string	N	128	Transaction status description
remark	string	N	256	Reserved fields (asynchronous notification will be returned to merchants).

3.2.7. (2006)Transaction query

- Interface description

When the transaction (payment, refund) can't get the final state within the agreed time, the organization needs to initiate queries through this interface, and the platform returns to the final state of the transaction.

The reasons for the failure to obtain transaction status within the agreed time (including but not limited to the following):

- 1) System software, network, server, and other anomalies.
- 2) Channel side did not reply clearly.

- Response mode

Background data stream

- Content of request message

Parameter	Type	Required	Length	Describe
orderNo	string	Y	50	Order number (platform or merchant order number select one of them)

merOrderNo	string	N	50	Institutional order number
tradeType	string	Y	2	Transaction type:00 transaction, 01 refund
isQueryPayTunnel	string	N	2	Mandatory query payment channel (00: No, 01: Yes)

- Response message content

Parameter	Type	Required	Length	Describe
merchantAccessNo	string	Y	50	Merchant access number
orderNo	string	Y	50	Platform order number
merOrderNo	string	Y	50	Merchant order number
orderCurrency	string	Y	3	Currency, such as EUR
orderAmt	string	Y	16	Order amount
payCurrency	string	Y	3	Payment of currencies, such as CNY
payAmt	string	Y	16	Amount of payment
tunnelSn	string	N	50	Order number for payment channel
tradeStatus	string	Y	32	Transaction status, reference "response code"
tradeMsg	string	N	128	Transaction status description
remark	string	N	256	Reserved fields (asynchronous notification will be returned to merchants).

3.2.8.(2007)Refund Request

- Interface description

Institutions (merchants) initiate refund requests to the payment platform through this interface to provide outstanding order refund functions for their subordinate merchants.

- Response mode

Background data stream

- Request message content

Parameter	Type	Required	Length	Describe
merchantAccessNo	string	Y	50	Merchant access number
merOrderNo	string	Y	50	Merchant refund order number
oldOrderNo	string	Y	50	Original platform transaction order number
oldMerOrderNo	string	Y	50	Original merchant transaction order number
refundAmt	string	Y	16	refund amount
refundCurrency	string	Y	3	The refund currency corresponds to the currency of the transaction order. For example, EUR
bgRetUrl	string	Y	255	Background callback address (URL)
remark	string	Y	128	Reserved fields

- Reply message content.

Parameter	Type	Required	Length	Describe
merchantAccessNo	string	Y	50	Merchant access number
orderNo	string	Y	50	Platform refund order number
merOrderNo	string	Y	50	Merchant refund order number
statusCode	string	Y	4	Response code
statusDesc	string	Y	255	Response description

3.2.9. (2008) Merchant-presented Mode Payment

- Interface description

The institution sends Alipay dynamic QR code payment request through the interface, and the platform returns the payment link address of the QR code. The institution displays the QR code, and the payment user scans the code to make payment.

Application scenario: native dynamic QR code (currently only applicable to Alipay payment).

- Request method

Background data flow (POST submission)

- Content of request message

Parameter	Type	Required	Length	Describe
merchantAccessNo	string	Y	50	Merchant Access Number (the unique logo that the platform assigns to merchants).
orderNo	string	Y	50	Merchant order number (unique)
orderAmt	number	Y	16	Order amount (in cents/penny), the smallest currency unit
subject	string	Y	50	Order title information
orderDesc	string	N	256	Order description
currency	string	Y	3	Currency , Default GBP
storeNo	string	N	50	Merchant store number, do not fill or enter 000
terminalNo	string	N	50	Merchant terminal number
employeeNo	string	N	50	Merchant employee number
bgRetUrl	string	Y	256	Background notification address
channelType	string	Y	50	ChannelType Alipay: ALIPAY Alipay+:ALIPAYPLUS
remark	string	N	256	Merchant reserved domain (asynchronous notification will be returned to merchant intact)

- Return content synchronously.

Parameter	Type	Required	Length	Describe
merchantAccessNo	string	Y	50	Merchant Access Number (the unique logo that the platform assigns to merchants)
orderNo	string	Y	50	Merchant order number (unique)
coreUrl	string	Y	255	QR code link, which is used to generate the QR code and show it to the user for scanning and payment
codeDetails	list	Y		QR code list details.

-codeValueType	string	Y	50	BARCODE: indicates a barcode QRCODE: indicates a QR code
-codeValue	string	Y	2048	If the value of displayType is set to SMALLIMAGE, MIDDLEIMAGE, BIGIMAGE, this parameter indicates a plain or Base64 encoded image URL.
-displayType	string	Y	50	TEXT: indicates that the code can be directly displayed on the UI as text or a label. MIDDLEIMAGE: indicates that the code can be directly displayed on the UI as a middle-sized image. SMALLIMAGE: indicates that the code can be directly displayed on the UI as a small-sized image. BIGIMAGE: indicates that the code can be directly displayed on the UI as a large-sized image.

3.2.10. (2009)Asynchronous notification of refund

- Interface description

If the organization fails to receive the final result synchronously after initiating the refunds transaction, it needs to wait for the platform to initiate the notification through this interface, and the platform will notify the organization actively when the channel is clear. After receiving the notification message, the merchant needs to return the "SUCCESS" synchronously.

If the platform does not receive the corresponding synchronous response information (SUCCESS), it notifies the merchant five times in a five-minute decline mode.

- Response mode

Background data stream

ContentType: application/x-www-form-urlencoded

- Response message content

Parameter	Type	Required	Length	Describe
merchantAccessNo	string	Y	50	Merchant access number
orderNo	string	Y	50	Platform refund order number
merOrderNo	string	Y	50	Merchant refund order number
refundAmt	string	Y	16	refund amount
refundCurrency	string	Y	3	Refund currencies, such as EUR
tradeStatus	string	Y	32	Transaction status, see response code.
tradeMsg	string	N	128	Transaction status description
remark	string	N	256	Reserved fields (asynchronous notification will be returned to merchants).

3.2.11. (2010) Scan to pay (Return QR code image data as a Base64 string)

- Interface description

The mechanism sends payment requests through the interface, and the platform returns the payment link address of the qrcode. The mechanism displays the qrcode and pays the user to scan the code for payment.

Application Scene: PC online payment, dynamic qrcode code payment, etc.

- Request method

Background data stream

- Content of request message

Parameter	Type	Required	Length	Describe
-----------	------	----------	--------	----------

merchantAccessNo	string	Y	50	Merchant access number
orderNo	string	Y	50	Merchant order number (unique)
orderAmt	numeric	Y	16	Order amount (unit: pence)
subject	string	Y	50	Order subject
orderDesc	string	N	256	Order description
currency	string	Y	3	Currency, default EUR
storeNo	string	N	50	The number of shops is not filled or filled with 000.
terminalNo	string	N	50	Merchant terminal number
employeeNo	string	N	50	Merchant staff number
bgRetUrl	string	Y	256	Foreground notification address(URL)
remark	string	N	256	Reserved field

- Return content synchronously.

Parameter	Type	Required	Length	Describe
merchantAccessNo	string	Y	50	Merchant access number
orderNo	string	Y	50	Merchant order number (unique)
coreImgForBase64	string	Y		Image data stream in the form of a BASE64 string. Example:

3.2.12. (2011) Wechat APP payment

Interface Description:

The institution (merchant) initiates wechat APP payment request to the payment platform through this interface, and provides wechat APP payment function for the affiliated users of the institution.

Response mode:

Background data flow

Request message content:

Parameter	Type	Required	Length	Describe
merchantAccessNo	string	Y	50	Merchant Access Number (unique identifier assigned by the platform to merchants)
orderNo	string	Y	50	Merchant Payment Order Number (unique)
orderAmt	numeric	Y	16	The order amount
subject	string	Y	50	Order Title Information
orderDesc	string	N	256	Order to describe
currency	string	Y	3	Currency, default EUR
storeNo	string	N	50	Number of merchant store, leave blank or fill in 000
terminalNo	string	N	50	Merchant Terminal Number
employeeNo	string	N	50	Merchant Employee No.
bgRetUrl	string	Y	256	Background callback address
remark	string	N	256	Remark

Response message content:

Parameter	Type	Required	Length	Describe
merchantAccessNo	string	Yes	50	Merchant Access Number (the unique identifier assigned by the platform to the merchant)
orderNo	string	Yes	50	Platform payment order number (unique)
merOrderNo	string	Yes	50	Merchant Payment Order No. (unique)
appContent	JSON	Yes	512	Small program call required parameters :JSON string
--package	string	Yes	128	<p>When you call the WeChat applet</p> <p>Prepay_id = WeChat unified order</p>

--nonceStr	string	Yes	32	When you call the WeChat apple WeChat returns when placing a unified order
--timeStamp	string	Yes	10	When you call the WeChat applet The time stamp
--paySign	string	Yes	32	When you call the WeChat applet The encrypted values
--signType	string	Yes	50	MD5
statusCode	string	Yes	4	The response code
statusDesc	string	Yes	255	The response described

APP SDK Parameters are called as follows, please refer to the wechat Payment document for details:

```
PayReq *request = [[[PayReq alloc] init] autorelease]; request.partnerId = @"10000100"; request.prepayId=
@"1101000000140415649af9fc314aa427"; request.package = @"Sign=WXPAY"; request.nonceStr=
@"a462b76e7436e98e0ed6e13c64b4fd1c"; request.timeStamp= @"1397527777"; request.sign=
@"582282d72dd2b03ad892830965f428cb16e7a256"; [WXApi safeSendReq:request];
```

3.2.13. (2012) WeChat Miniprogram Pay

Interface description:

The institution (merchant) initiates WeChat applet payment request to the payment platform through this interface, and provides WeChat applet payment function for users subordinate to the institution.

Response mode:

Background data flow

Request the contents of the message

Parameter	Type	Require	Length	Describe
-----------	------	---------	--------	----------

		d		
merchantAccessNo	string	Yes	50	Merchant Access Number (the unique identifier assigned by the platform to the merchant)
orderNo	string	Yes	50	Merchant payment order
openid	string	Yes	100	User openid
orderAmt	string	Yes	16	Amount (cents)
subject	string	Yes	50	Order title information
orderDesc	string	No	256	Order description
currency	string	Yes	3	Currency EUR
storeNo	string	Yes	50	Fill 000
terminalNo	string	No	50	Merchant Terminal No.
employeeNo	string	No	50	Merchant Staff Number
bgRetUrl	string	Yes	255	The background callback address
remark	string	Yes	128	Keep the domain

Response message content:

Parameter	Type	Required	Length	Describe
merchantAccessNo	string	Yes	50	Merchant Access Number (the unique identifier assigned by the platform to the merchant)
orderNo	string	Yes	50	Platform payment order number (unique)
merOrderNo	string	Yes	50	Merchant Payment Order No. (unique)
miniProgramContent	JSON	Yes	512	Miniprogram call required parameters :JSON string
--package	string	Yes	128	When you call the WeChat applet Prepay_id = WeChat unified order
--nonceStr	string	Yes	32	When you call the WeChat applet WeChat returns when placing a unified order

--timeStamp	string	Yes	10	When you call the WeChat applet The time stamp
--paySign	string	Yes	32	When you call the WeChat applet The encrypted values
--signType	string	Yes	50	MD5
statusCode	string	Yes	4	The response code
statusDesc	string	Yes	255	The response described

The Paysign parameter is encrypted as follows, refer to the WeChat payment document for details:

```
paySign
MD5(appId=wxid678efh567hg6787&nonceStr=5K8264ILTKCH16CQ2502SI8ZNMTM67VS&package=pre
pay_id=wx2017033010242291fcfe0db70013231072&signType=MD5&timeStamp=1490840662&key=qazw
sxedcrftvgbyhnujmikolp11111) = 22D9B4E54AB1950F51E0649E8810ACD6
```

WeChat applet front-end call example: Refer to the documentation for details

```
wx.requestPayment (
{
'timeStamp': '',
'nonceStr': '',
'package': '',
'signType': 'MD5',
'paySign': '',
'success':function(res) {},
'fail':function(res) {},
'complete':function(res) {}
})
```

3.2.14. (2013) WEB ONLINE PAYMENT

- Interface description

The organization readizes Alipay Web/WAP online payment through this interface,and the interface will return the address of Alipay cashier desk. This interface is applicable to PC cashier payment and mobile WAP payment.

Application scenario :Alipay Wev online payment

- Response mode

Background data flow(POST submit)

- Request the contents of the message

Parameter	Type	Required	Length	Describe
merchantAccessNo	string	Y	50	Merchant Access Number (the unique identifier assigned by the platform to the merchant)
orderNo	string	Y	50	Merchant Order No. (Unique)
orderAmt	number	Y	16	Order amount (in cents/penny), the smallest unit of currency
subject	string	Y	50	Order title information
orderDesc	string	N	256	Order description
currency	string	Y	3	Currency, Default GBP
storeNo	string	N	50	Merchant store number, do not fill or fill 000
terminalNo	string	N	50	Merchant Terminal No.
employeeNo	string	N	50	Merchant Staff Number
bgRetUrl	string	Y	256	Background notification address
retUrl	string	Y	256	Reception callback address After the payment is completed at the cashier of the Web terminal, it will be called back to the changed address
channelType	string	Y	50	Channel type Alipay: ALIPAY WeChat: WEPAY Aipay+:ALIPAYPLUS Only Alipay and Alipay+ is currently supported
osType	string	N	10	Terminal type: Apple: IOS The ANDROID: ANDROID

				Is empty, the default is to pay in PC browser; This field should be submitted for WAP payment only
goodsInfo	string	N	2000	Commodity information in the following format: goods_a^2 goods_b^1
remark	string	N	256	Merchant reservation domain (asynchronous notification is returned to the merchant intact)

- Response message content

Parameter	Type	Required	Length	Describe
merchantAccessNo	string	Y	50	Merchant Access Number (the unique identifier assigned by the platform to the merchant)
orderNo	string	Y	50	Platform cancellation order number (unique)
method	string	Y	10	GET / POST
coreUrl	string	Y	255	The address of the checkout desk on the Web side
statusCode	string	Y	4	The response code
statusDesc	string	Y	255	The response described

3.2.15. (2014) Payment cancellation request

- Interface description

The payment intermediate institution (merchant) requests the payment revocation of the payment order to the payment platform through this interface.

Refunds will occur for transactions that have been successfully paid on the day of the cancellation.

If the payment status on the day is not final, the cancellation interface must be initiated to avoid losses for the merchants or customers

- Response mode

Background data flow

- Request the contents of the message

Parameter	Type	Required	Length	Describe
-----------	------	----------	--------	----------

merchantAccessNo	string	Y	50	Merchant Access Number (the unique identifier assigned by the platform to the merchant)
merOrderNo	string	Y	50	Merchant Cancel Order No. (Unique)
oldOrderNo	string	Y	50	Original transaction order number (one of two orders from merchants on the platform)
oldMerOrderNo	string	Y	50	Original transaction order number of merchants (one of the two orders of merchants on the platform)
bgRetUrl	string	Y	255	The background callback address
remark	string	Y	128	Keep the domain

- Response message content

Parameter	Type	Required	Length	Describe
merchantAccessNo	string	Y	50	Merchant Access Number (the unique identifier assigned by the platform to the merchant)
orderNo	string	Y	50	Platform cancellation order number (unique)
merOrderNo	string	Y	50	Merchant Cancel Order No. (Unique)
action	string	Y	10	Transaction action triggered by this revocation CLOSE: Close transaction, no refund REFUND: Refund happening
statusCode	string	Y	4	The response code
statusDesc	string	Y	255	The response described

3.2.16. (3001)Transaction reconciliation

- Interface description

Through this interface, the merchant obtains the reconciliation data for a business day's transaction and refund.

The T-1 reconciliation document is acquired after 11 a.m. (or the reconciliation time of negotiation).

- Request method
Background data stream
- Request message content

Parameter	Type	Required	Length	Describe
acctDate	string	Y	8	Accounting date (format: yyyyMMdd)

- Response mode
The txt file data stream of Http protocol.
- Response description
 - 1) The fields are segmented by "|".
 - 2) The number of fields is fixed. If a field is empty, it will be left blank.
 - 3) File first behavior summary information, Field Description: accounting date|transaction number.
 - 4) The second line of the document begins with transaction reconciliation data. The field is described as follows:
Account Date | Organization Order Number | Platform Order Number | Trading Type | Order Amount | Order Currency | Payment Amount | Payment Currency | Service Fee | Status | Channel Type | Payment Type

- Examples

20171219|5

20171219|T20171219130015112|T201712190000000000000002|TRANS|100|CNY|100|CNY|1|SUCCESS|WEPAY|WEPAY

20171219|T20171219130015113|T201712190000000000000003|TRANS|50|CNY|50|CNY|0|SUCCESS|WEPAY|WEPAY

Chapter 4 Appendix

4.1. Response code

Code	Description	Code	Description
R001	Account does not exist	R060	Original transaction information does not exist
R002	Insufficient account balance	R061	Payment channel exception
R003	Verification code error	R062	The refund amount is greater than the refundable amount
R004	Organization does not exist	R063	Original transaction order was unsuccessful
R005	Message format error	R064	Public key information is not configured
R006	The amount must be greater than 0	R065	No data
R007	Duplicate order number	R066	The information of the merchants is abnormal.
R008	Amount format error	R067	Transaction cancellation failed
R009	Wrong transaction number	R068	To be paid
R010	The bound serial number does not exist.	R200	Accepted
R011	This account is not authorized	R201	Institution number does not exist
R012	No such transaction after inquiry	R202	Access merchant number does not exist
R014	Signature failed	R203	Merchant cancellation failed
R015	Parameter error	R204	The institution's merchant number does not exist
R016	Business processing is abnormal	R205	The institution's merchant number already exists
R017	No corresponding data information was queried	R206	Merchant does not exist
R018	Business type error	R207	Merchant information query failed
R019	Account already exists	R208	Merchant pending review
R020	Does not support the bank transaction	R209	Merchant review rejected
R021	Bank card number is incorrect	R210	Merchants are frozen
R022	Bank card verification failed	R211	Merchant has been cancelled
R023	Terminal code error	R212	Agency rate does not exist
R024	Transaction processing	R213	Merchant rate error
R025	Transaction accepted	R214	Province/municipality code does not exist
R026	Incorrect document information	R215	City code does not exist
R027	Payment account exception	R216	District code does not exist
R028	Same payment account	R217	Bank category does not exist
R029	Corporate accounts cannot be transferred to individual accounts	R218	The sortcode does not exist

R030	Payment account cannot initiate transfer business	R220	Wechat business category does not exist
R031	No corresponding channels or multiple channels	R221	Payment type is not supported
R032	Calling payment system error	R222	Merchants failed to settle in
R033	Payment error	R223	Merchant ID type is incorrect
R034	Abnormal balance transfer	R224	Merchant ID number is empty
R035	Account status freeze or cancelled	R225	Merchant ID validity period is incorrect
R036	Four-factor verification failed	R226	Billing type is incorrect
R037	Bank card not bound	R227	Account type is incorrect
R038	User does not exist	R228	Payment type is incorrect
R039	User has been frozen	R229	The aging type is incorrect
R040	Account risk control is abnormal	R230	Incorrect cost type
R041	Duplicate business number	R231	Incorrect cost parameters
R042	The total number of messages or the total amount does not match the list.	R232	Merchant modification failed
R050	Fast payment recharge failed	R233	Institution status is not valid
R051	Risk control check fails	R234	Type of liquidation not supported by the agency
R052	Merchant transaction history already exists	R100	New transaction
R053	User status is abnormal	R000	Successful transaction
R054	User status is normal	R101	Trading closed
R055	User has been logged out	R995	Digital signature error
R056	Bank card type is incorrect	R996	Transaction timeout
R057	network anomaly	R997	Status pending
R058	Duplicate order number repeat	R998	System exception
R059	Bad date of account	R999	transaction failed

4.2 Reconciliation order Status

Code	Description	Code	Description
NEW	NEW	FAIL	FAIL
WAIT	waiting to be paid	ERR	ERROR
ING	processing	INVALID	INVALID
SUCCESS	SUCCESS		

4.3 Reconciliation order types

Code	Description	Code	Description
TRANS	transaction	WITHDRAW	WITHDRAW
REFUND	REFUND		

4.4 Payment channel categories

4.4.1 Wechat payment categories

Cod e	Description	Cod e	Description
343	Shoes&Garments	488	Maternal and infant
493	Air Ticket	487	Cosmetics
492	Stationery/office supplies	486	Food
491	Hotel Industry	485	Comprehensive mall
490	Education Industry	484	Other trade industry
489	Logistics		
494	Digital appliance		

4.5 Countries or area code

Code	English	Code	English
AND	Andorra	NGA	Nigeria
ARE	United Arab Emirates	NIC	Nicaragua
AFG	Afghanistan	NLD	Netherlands
ATG	Antigua & Barbuda	NOR	Norway
AIA	Anguilla	NPL	Nepal
ALB	Albania	NRU	Nauru
ARM	Armenia	OMN	Oman
AGO	Angola	PAN	Panama
ATA	Antarctica	PER	Peru
ARG	Argentina	PYF	French polynesia

ASM	American Samoa	PNG	Papua New Guinea
AUT	Austria	PHL	The Philippines
AUS	Australia	PAK	Pakistan
ABW	Aruba	POL	Poland
ALA	Aaland Island	PCN	Pitcairn Islands
AZE	Azerbaijan	PRI	Puerto Rico
BIH	Bosnia & Herzegovina	PSE	Palestinian territories
BRB	Barbados	PLW	Palau
BGD	Bangladesh	PRY	Paraguay
BEL	Belgium	QAT	Qatar
BFA	Burkina	REU	R é union
BGR	Bulgaria	ROU	Romania
BHR	Bahrain	SRB	Serbia
BDI	Burundi	RUS	Russian Federation
BEN	Benin	RWA	Rwanda
BLM	Saint Barth é lemy	SLB	Solomon Islands
BMU	Bermuda	SYC	Seychelles
BRN	Brunei	SDN	Sudan
BOL	Bolivia	SWE	Sweden
BES	Caribbean Netherlands	SGP	Singapore
BRA	Brazil	SVN	Slovenia
BHS	The Bahamas	SJM	Template:Country data SJM Svalbard
BTN	Bhutan	SVK	Slovakia
BVT	Bouvet Island	SLE	Sierra Leone
BWA	Botswana	SMR	San Marino
BLR	Belarus	SEN	Senegal
BLZ	Belize	SOM	Somalia
CAN	Canada	SUR	Suriname
CCK	Cocos (Keeling) Islands	SSD	South Sudan
CAF	Central African Republic	STP	Sao Tome & Principe
CHE	Switzerland	SLV	El Salvador
CHL	Chile	SYR	Syria
CMR	Cameroon	SWZ	Swaziland
COL	Colombia	TCA	Turks & Caicos Islands
CRI	Costa Rica	TCD	Chad
CUB	Cuba	TGO	Togo
CPV	Cape Verde	THA	Thailand

CXR	Christmas Island	TKL	Tokelau
CYP	Cyprus	TLS	Timor-Leste (East Timor)
CZE	Czech Republic	TUN	Tunisia
DEU	Germany	TON	Tonga
DJI	Djibouti	TUR	Turkey
DNK	Denmark	TUV	Tuvalu
DMA	Dominica	TZA	Tanzania
DOM	Dominican Republic	UKR	Ukraine
DZA	Algeria	UGA	Uganda
ECU	Ecuador	USA	United States of America
EST	Estonia	URY	Uruguay
EGY	Egypt	VAT	Vatican City (The Holy See)
ESH	Western Sahara	VEN	Venezuela
ERI	Eritrea	VGB	British Virgin Islands
ESP	Spain	VIR	United States Virgin Islands
FIN	Finland	VNM	Vietnam
FJI	Fiji	WLF	Wallis and Futuna
FLK	Falkland Islands	WSM	Samoa
FSM	Federated States of Micronesia	YEM	Yemen
FRO	Faroe Islands	MYT	Mayotte
FRA	France	ZAF	South Africa
GAB	Gabon	ZMB	Zambia
GRD	Grenada	ZWE	Zimbabwe
GEO	Georgia	CHN	China
GUF	French Guiana	COG	Republic of the Congo
GHA	Ghana	COD	Democratic Republic of the Congo
GIB	Gibraltar	MOZ	Mozambique
GRL	Greenland	GGY	Guernsey
GIN	Guinea	GMB	Gambia
GLP	Guadeloupe	MNP	Northern Mariana Islands
GNQ	Equatorial Guinea	ETH	Ethiopia
GRC	Greece	NCL	New Caledonia
SGS	South Georgia and the South Sandwich Islands	VUT	Vanuatu
GTM	Guatemala	ATF	French Southern Territories
GUM	Guam	NIU	Niue
GNB	Guinea-Bissau	UMI	United States Minor Outlying Islands
GUY	Guyana	COK	Cook Islands

HKG	Hong Kong	GBR	Great Britain (United Kingdom; England)
HMD	Heard Island and McDonald Islands	TTO	Trinidad & Tobago
HND	Honduras	VCT	St. Vincent & the Grenadines
HRV	Croatia	TWN	Taiwan
HTI	Haiti	NZL	New Zealand
HUN	Hungary	SAU	Saudi Arabia
IDN	Indonesia	LAO	Laos
IRL	Ireland	PRK	North Korea
ISR	Israel	KOR	South Korea
IMN	Isle of Man	PRT	Portugal
IND	India	KGZ	Kyrgyzstan
IOT	British Indian Ocean Territory	KAZ	Kazakhstan
IRQ	Iraq	TJK	Tajikistan
IRN	Iran	TKM	Turkmenistan
ISL	Iceland	UZB	Uzbekistan
ITA	Italy	KNA	St. Kitts & Nevis
JEY	Jersey	SPM	Saint-Pierre and Miquelon
JAM	Jamaica	SHN	St. Helena & Dependencies
JOR	Jordan	LCA	St. Lucia
JPN	Japan	MUS	Mauritius
KHM	Cambodia	CIV	Coate d'Ivoire
KIR	Kiribati	KEN	Kenya
COM	The Comoros	MNG	Mongolia
KWT	Kuwait		
CYM	Cayman Islands		
LBN	Lebanon		
LIE	Liechtenstein		
LKA	Sri Lanka		
LBR	Liberia		
LSO	Lesotho		
LTU	Lithuania		
LUX	Luxembourg		
LVA	Latvia		
LBY	Libya		
MAR	Morocco		
MCO	Monaco		
MDA	Moldova		

MNE	Montenegro		
MAF	Saint Martin (France)		
MDG	Madagascar		
MHL	Marshall islands		
MKD	Republic of Macedonia (FYROM)		
MLI	Mali		
MMR	Myanmar (Burma)		
MAC	Macao		
MTQ	Martinique		
MRT	Mauritania		
MSR	Montserrat		
MLT	Malta		
MDV	Maldives		
MWI	Malawi		
MEX	Mexico		
MYS	Malaysia		
NAM	Namibia		
NER	Niger		
NFK	Norfolk Island		

4.6 Currency types

Currency name	currency code	Country of use
United Arab Emirates Dirham	AED	United Arab Emirates
Afghani	AFN	Afghanistan
Albanian Lek	ALL	Albania
Armenian Dram	AMD	Armenia
Angola Kwanza	AOA	Angola
Les guilders	ANG	Curacao, Sint Maarten
Argentine Peso	ARS	Argentina
Australian dollar	AUD	Australia, Christmas Island, Cocos (Keeling) Islands, Heard Island and McDonald Islands, Kiribati, Nauru, Norfolk Island, Tuvalu, Australian Antarctic Territory
Florin, Aruba	AWG	Aruba
Azerbaijani Manat	AZN	Azerbaijan

Bosnia and Herzegovina convertible mark	BAM	Bosnia and Herzegovina
Barbados Dollar	BBD	Barbados
Bangladesh Taka	BDT	Bangladesh
Bulgarian Leva	BGN	Bulgarian Lev
Bahraini Dinar	BHD	Bahrain
Burundi Franc	BIF	Burundi
Bermudian dollar	BMD	Bermuda
Brunei	BND	Brunei
Boliviano	BOB	Bolivia
Bolivia Mvdol(fund code)	BOV	Bolivia
Brasilia (Real)	BRL	Brazil
Bahamian dollar	BSD	Bahamas
Bhutanese Rupee	BTN	Bhutan
Botswana Pula	BWP	Botswana
Belarusian ruble	BYR	Belarus
Belize Dollar	BZD	Belize
Canadian dollar	CAD	Canada
Congo franc	CDF	Congo (Gold)
Swiss Franc	CHF	Switzerland, Liechtenstein
Chilean Peso	CLP	Chile
Renminbi	CNY	China
Colombian Peso	COP	Colombia
Costa Rica	CRC	Costa Rica
Cuban Peso	CUP	Cuba
Cuban convertible peso	CUC	Cuba
Cape Verde Escudo	CVE	Cape Verde
Czech Koruna	CZK	Czech Republic
Djibouti Franc	DJF	Djibouti
Danish Krone	DKK	Denmark, Faroe Islands, Greenland
Dominican Peso	DOP	Dominica
Algerian Dinar	DZD	Algeria
EUR	EUR	Akrotiri and Dhekelia, Andorra, Austria, Belgium, Cyprus, Estonia, Finland, France, Germany, Greece, Guadeloupe, Ireland, Italy, Kosovo, Latvia, Lithuania, Luxembourg, Malta, Martinique, Mayotte, Monaco,

		Montenegro, Netherlands, Portugal, Reunion, Saint Barthelemy, Saint Pierre and Miquelon, San Marino, Slovakia, Slovenia, Spain, Vatican
Egyptian pound	EGP	Egypt and the Gaza Strip as auxiliary currencies
Eritrea Nakfa	ERN	Eritrea
Ethiopian Bill	ETB	Ethiopia
Fiji Dollar	FJD	Fiji
Falkland Islands Pound	FKP	Falkland Islands
GBP	GBP	Britain, Isle of Man, Jersey, Guernsey, South Georgia and South Sandwich Islands, British Indian Ocean Territory (also using US dollars), Tristan da Cunha and British Antarctic Territory
Georgia Lari	GEL	Georgia
Ghana Cedi	GHS	Ghana
Gibraltar Pound	GIP	Gibraltar
Gambian Dalasi	GMD	Gambia
Guinea Franc	GNF	Guinea
Guatemalan Quetzal	GTQ	Guatemala
Guyana	GYD	Guyana
Hong Kong dollar	HKD	Hong Kong and Macao
Honduran Lempira	HNL	Honduras
Croatian Kuna	HRK	Croatia
Haitian Gourde	HTG	Haiti
Hungarian Forint	HUF	Hungary
Indonesian Rupee Shield	IDR	Indonesia
Israeli new shekel	ILS	Israel, the State of Palestine
Indian Rupee	INR	India, Bhutan, Nepal, Zimbabwe
Iraqi Dinar	IQD	Iraq
Iranian Rial	IRR	Iran
Icelandic Krona	ISK	Iceland
Jamaican dollar	JMD	Jamaica
Jordanian Dinar	JOD	Jordan
JPY	JPY	Japan
Kenyan shilling	KES	Kenya
Kyrgyzstan Som	KGS	Kyrgyzstan

Cambodian Liles	KHR	Cambodia
Comoros Franc	KMF	Comoros
Korean round	KRW	South Korea
Korean round	KPW	North Korea
Kuwaiti Dinar	KWD	Kuwait
Cayman Islands Dollar	KYD	Cayman Islands
Kazakhstan Tenge	KZT	Kazakhstan
Lao Kip	LAK	Laos
Lebanese pound	LBP	Lebanon
Sri Lankan Rupee	LKR	Sri Lanka
Liberia	LRD	Liberia
Lesotho Loti	LSL	Lesotho
Libyan Dinar	LYD	Libya
Moroccan Durham	MAD	Morocco
Moldovan Leu	MDL	Moldova
Ariari, Madagascar	MGA	Madagascar
Ugiya, Mauritania	MRO	Mauritania
Macedonian dinars	MKD	Macedonia
Myanmar dollar	MMK	Myanmar
Mongolian Tugrik	MNT	Mongolia
MOP	MOP	Macao
Mauritian Rupee	MUR	Mauritius
Maldives Raffia	MVR	Maldives
Malawi Kwacha	MWK	Malawi
Mexican Peso	MXN	Mexico
Malaysian Ringgit	MYR	Malaysia
Mozambique Meticar	MZN	Mozambique
Namibian dollar	NAD	Namibia
Nigerian Naira	NGN	Nigeria
Nicaragua Cordoba	NIO	Nicaragua
Norwegian Krone	NOK	Norway, Svalbard and Jan Mayen, Bouvet Island
Nepalese Rupee	NPR	Nepal
New Zealand dollar	NZD	New Zealand, Cook Islands, Niue, Pitcairn Islands, Tokelau
Omani Rial	OMR	Oman

Balboa, Panama	PAB	Panama
Peru, Sol	PEN	Peru
Papua New Guinea Kina	PGK	Papua New Guinea
Philippine Pesos	PHP	Philippines
Pakistan Rupee	PKR	Pakistan
Polish Zloty	PLN	Poland
Paraguay Guarani	PYG	Paraguay
Qatari Rial	QAR	Qatar
Romanian lei	RON	Romania
Serbian Dinar	RSD	Serbia
Russian ruble	RUB	Russia, Abkhazia, South Ossetia, Autonomous Republic of Crimea
Rwanda Franc	RWF	Rwanda
Saudi Riyal	SAR	Saudi Arabia
Solomon Islands Dollar	SBD	Solomon Islands
Seychelles Rupee	SCR	Seychelles
Sudanese Dinar	SDG	Sudan
Swedish Krona	SEK	Sweden
Singapore dollar	SGD	Singapore
St. Helena Pound	SHP	St. Helena, Ascension Island
Sierra Leone	SLL	Sierra Leone
Somali shilling	SOS	Somalia
Surinamese	SRD	Suriname
South Sudan Pound	SSP	South Sudan
Sao Tome and Principe Dobra	STD	Sao Tome and Principe
Syrian pound	SYP	Syria
Swaziland Rirangini	SZL	Swaziland
Thai baht	THB	Thailand, Cambodia, Myanmar, Laos
Tajikistan Somoni	TJS	Tajikistan
Turkmenistan Manat	TMT	Turkmenistan
Tunisian Dinar	TND	Tunisia
Tonga Panga	TOP	Tonga
Turkish lira	TRY	Turkey, Northern Cyprus
Trinidad and Tobago Dollar	TTD	Trinidad and Tobago
New Taiwan dollar	TWD	Taiwan, China

Tanzanian shilling	TZS	Tanzania
Ukrainian Hufmi	UAH	Ukraine
Ugandan shilling	UGX	Uganda
US Dollar	USD	United States, American Samoa, Barbados, Bermuda, British Indian Ocean Territory, British Virgin Islands, US Virgin Islands, Dutch Caribbean (Bonaire, Sint Eustatius and Saba), Ecuador, El Salvador, Guam, Haiti, Marshall Islands, Micronesia (Federated States of Micronesia), Northern Mariana Islands, Palau, Panama, Puerto Rico, East Timor, Turks and Caicos Islands, Zimbabwe
Uruguay Peso	UYU	Uruguay
Uzbekistan Som	UZS	Uzbekistan
Bolivar, Venezuela	VEF	Venezuela
Vietnamese Shield	VND	Vietnam
Vanuatuwatu	VUV	Vanuatu
Samoa Tara	WST	Samoa
Central African Franc	XAF	Congo (Brazzaville), Central Africa, Chad, Cameroon, Equatorial Guinea, Gabon
Grenada East Caribbean Dollar	XCD	Anguilla, Antigua and Barbuda, Dominica, Grenada, Montserrat, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and Grenadines
West African Franc	XOF	Togo, Burkina Faso, Côte d'Ivoire, Guinea-Bissau, Mali, Niger, Senegal, Benin
Pacific Franc	XPF	Pacific French territories: French Polynesia, New Caledonia, Wallis and Futuna
Sucre	XSU	Regional Compensation Unified System (SUCRE)
Yemeni Rial	YER	Yemen
South African Rand	ZAR	South Africa
Zambia Kwacha	ZMW	Zambia

4.7 Appendix A - Starpay British Area Code

	Code	AREA		Code	AREA
GBR	999020	England	Wales	992016	The Vale of Glamorgan
GBR	999120	Wales	Wales	992017	Cardiff

GBR	999220	Scotland	Wales	992018	Caerphilly
GBR	999320	Northern Ireland	Wales	992019	Blaenau Gwent
England	991001	Greater London	Wales	992020	Monmouthshire
England	991002	Greater Manchester	Wales	992021	Torfaen
England	991003	Merseyside	Wales	992022	Newport
England	991004	South Yorkshire	Scotland	993001	Argyll and Bute
England	991005	Tyne and Wear	Scotland	993002	East Ayrshire
England	991006	West Midlands	Scotland	993003	South Ayrshire
England	991007	West Yorkshire	Scotland	993004	North Ayrshire
England	991008	Avon	Scotland	993005	East Dunbartonshire
England	991009	Bedfordshire	Scotland	993006	West Dunbartonshire
England	991010	Berkshire	Scotland	993007	Renfrewshire
England	991011	Buckinghamshire	Scotland	993008	East Renfrewshire
England	991012	Cambridgeshire	Scotland	993009	Inverclyde
England	991013	Cheshire	Scotland	993010	Glasgow City
England	991014	Cornwall	Scotland	993011	North Lanarkshire
England	991015	Cumbria	Scotland	993012	South Lanarkshire
England	991016	Derbyshire	Scotland	993013	Edinburgh
England	991017	Devon	Scotland	993014	Midlothian
England	991018	Dorset	Scotland	993015	West Lothian
England	991019	Durham	Scotland	993016	East Lothian
England	991020	East Sussex	Scotland	993017	Clackmannanshire
England	991021	Essex	Scotland	993018	Falkirk
England	991022	Gloucestershire	Scotland	993019	Stirling
England	991023	Hampshire	Scotland	993020	Fife
England	991024	Hertfordshire	Scotland	993021	Dundee City
England	991025	Isle of Wight	Scotland	993022	Angus
England	991026	Kent	Scotland	993023	Perth and Kinross
England	991027	Lancashire	Scotland	993024	Aberdeen City
England	991028	Leicestershire	Scotland	993025	Aberdeenshire
England	991029	Lincolnshire	Scotland	993026	Moray
England	991030	Norfolk	Scotland	993027	Scottish Borders
England	991031	North Yorkshire	Scotland	993028	Dumfries and Galloway
England	991032	Northamptonshire	Scotland	993029	Highland
England	991033	Nottinghamshire	Scotland	993030	Orkney Islands
England	991034	Oxfordshire	Scotland	993031	Shetland Islands
England	991035	Shropshire	Scotland	993032	Eilean Siar
England	991036	Somerset	Northern Ireland	994001	Alds
England	991037	Staffordshire	Northern Ireland	994002	Kastleleagh
England	991038	Suffolk	Northern Ireland	994003	Down
England	991039	Surrey	Northern Ireland	994004	North Down
England	991040	Warwickshire	Northern Ireland	994005	Banbridge
England	991041	West Sussex	Northern Ireland	994006	Belfast

England	991042	Wiltshire	Northern Ireland	994007	Lisburn
England	991043	Humberside	Northern Ireland	994008	Antrim
England	991044	Northumbria	Northern Ireland	994009	Ballymena
England	991045	Hereford and Worcester	Northern Ireland	994010	Ballymoney
England	991046	Cleveland	Northern Ireland	994011	Carrifergus
Wales	992001	Isle of Anglesey	Northern Ireland	994012	Larne
Wales	992002	Conwy	Northern Ireland	994013	Moyle
Wales	992003	Denbighshire	Northern Ireland	994014	Newtownabbey
Wales	992004	Flintshire	Northern Ireland	994015	Armagh
Wales	992005	Wrexham	Northern Ireland	994016	Klaigavon
Wales	992006	Gwynedd	Northern Ireland	994017	Newly and Moulne
Wales	992007	Ceredigion	Northern Ireland	994018	Coleraine
Wales	992008	Powys	Northern Ireland	994019	Maghelafelt
Wales	992009	Pembrokeshire	Northern Ireland	994020	Derry
Wales	992010	Carmarthenshire	Northern Ireland	994021	Limavady
Wales	992011	Swansea	Northern Ireland	994022	Cookstown
Wales	992012	Neath Port Talbot	Northern Ireland	994023	Dungannon
Wales	992013	Merthyr Tydfil	Northern Ireland	994024	Omagh
Wales	992014	Rhondda Cynon Taff	Northern Ireland	994025	Stlabane
Wales	992015	Bridgend	Northern Ireland	994026	Fermanagh