

WeTech Risk Control API Documentation

(E-commerce)

Revision History

Version	Description	Date
V1.0	First edition	2024-11-15
V1.1	1. Field type revisions 2. Risk decision rules	2025-01-20
V1.2	Card number encryption algorithm change	2025-02-28
V1.3	Notify API supports failed transaction reporting	2025-05-07
V1.4	Added test interface - 4.4	2025-07-31
V1.5	1. Removed DeviceTokenInfo field from original section 2.8 2. Removed and optimized optional fields in section 2.5 3. Added PaymentInfo field in Notify section 2.3 4. Optimized NotifyInfo field in Notify section 2.2	2025-09-01
V1.6	Added UserInfo fields: UserRegCity, UserRegStreet, UserRegPhoneNo, UserRegSource, UserRegInviter	2025-11-19
V1.7	Added 3DS as a decision result	2025-12-19
V1.8	Added merchant-defined device or browser identification field	2026-01-14
V1.9	Added ModelCode as a new output field	2026-01-23
V2.0	Notify API supports reporting of refund reasons	2026-01-30
V2.1	Added payment device information	2026-03-31

Contents

Revision History	1
WeTech Risk Control API	3
1. Risk Control API request - Header	3
1.1 Body	4
1.2 BizCryptoData	4
2. CryptoContent [Plaintext Data Before Encryption]	5
2.1 BasicInfo	5
2.2 UserInfo	5
2.3 OrderInfo	6
2.4 OrderItemInfo	7
2.5 DeliveryInfo	8
2.6 PaymentInfo	9
2.7 ExtraInfo	11
3. Output Response	11
3.1 Response body	11
3.2 OutputInfo	12
4. Examples	12
4.1 Request Example	12
4.2 BizCryptoData_CryptoContent_json Example	13
4.3 Response Body Example	14
Interface Testing – Critical Parameter Validation Specifications	14
Parameter Assignment Specifications and Validation Rule Examples	14
Module 2.2 – UserInfo	15
Module 2.3 – OrderInfo	16
Module 2.6 – PaymentInfo	17
WeTech Risk Control Notify API	18
1. Notify API Request – Header	18
1.1 Body	19
1.2 BizCryptoData	19
2. CryptoContent [Plaintext Data Before Encryption]	19
2.1 BasicInfo	19
2.2 NotifyInfo	20
2.3 PaymentInfo	21
2.4 ExtraInfo	22
3. Output Response	22
3.1 Data	22
4. Examples	23
4.1 Request Example	23
4.2 BizCryptoData_CryptoContent_json Example	23
4.3 Response Body Example	24
Error Codes – A	25
Error Codes – B	27

Interface Description

Request Domain:

US West:rce.na-siliconvalley.wetech-rc.com

Request Method:POST

Content-Type: application/json

WeTech Risk Control API

1. Risk Control API request - Header

Element	Data Type	Required?	Description/Sample Value
X-TC-Action	String	Yes	API common parameter. Production interface: DescribeEcommerceStrategy Test interface: DescribePreEcommerceStrategy (Test Interface Parameter Validation Specifications)
X-TC-Version	String	Yes	API common parameter. API version. Value:2024-06-21
X-TC-Region	String	Yes	API common parameter. Value:na-siliconvalley
X-TC-Timestamp	String	Yes	API common parameter. Current UNIX timestamp (seconds). Example:1529223702. Note: If the difference from server time exceeds 5 minutes, a signature expiration error will occur.
Host	String	Yes	Request domain
Authorization	String	Yes	HTTP standard authentication header. Format: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/Date/Service/tc3_request, SignedHeaders=content-type;host, Signature=fe5f80f77d5fa3beca038a248ff027d0445342fe2855ddc963176630326f1024 Note: TC3-HMAC-SHA256: The signing method. This value is currently fixed Credential: The signing credential. AKIDEXAMPLE is the SecretId. Date is the UTC standard date, and its value must match the UTC standard date converted

			<p>from the common parameter X-TC-Timestamp.</p> <p>Service is the product name; for this product, the value is ra. tc3_request is a fixed string.</p> <p>SignedHeaders: The headers involved in signature calculation. content-type and host are required headers.</p> <p>Signature: The signature digest. For the calculation process, please refer to the documentation.</p>
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1.1 Body

Element	Type	Required?	Description
BizCryptoData	BizCryptoData	Yes	Data encryption parameters

1.2 BizCryptoData

Element	Type	Required?	Description
IsAuthorized	String	Yes	Values: 1= authorized
CryptoType	String	Yes	Encryption type:1= AES encryption
CryptoContent	String	Yes	When non-empty, the interface uses encryption mode. (See Encryption Instructions)

Encryption Instructions:

The interface supports the use of encryption mode for transmitting business parameters via the BizCryptoData parameter.

When CryptoContent is not empty, the interface triggers encryption mode. Taking AES encryption as an example, the encryption steps are as follows:

1. Obtain ClientID, perform base64 encoding to get AES key. If key \geq 32 bytes, take first 32 bytes; if \geq 24 bytes, take first 24 bytes; if \geq 16 bytes, take first 16 bytes
2. Use the key from step 1 to encrypt the business data object using AES/ECB/PKCS7Padding. The business data object is the JSON string of the BizCryptoData.CryptoContent parameter. (For a JSON example, see section 4.2, "BizCryptoData.CryptoContent JSON Format".)
3. Perform base64 encoding on the byte array obtained from the AES encryption in step 2 to obtain the final CryptoContent.

2. CryptoContent [Plaintext Data Before Encryption]

Element	Data Type	Required?	Description
BasicInfo	BasicInfo	Yes	See BasicInfo
UserInfo	UserInfo	Yes	See UserInfo
OrderInfo	Array of OrderInfo	Yes	See OrderInfo
OrderItemInfo	Array of OrderItemInfo	Yes	See OrderItemInfo
DeliveryInfo	Array of DeliveryInfo	Yes	See DeliveryInfo
PaymentInfo	PaymentInfo	Yes	See PaymentInfo
ExtraInfo	ExtraInfo	No	See ExtraInfo

2.1 BasicInfo

Element	Data Type	Required?	Description
Scene	Integer	Yes	Value:1001
Appid	String	Yes	Fixed value. Appid is provided by WeTech.

Example:

```
"BasicInfo": {
  "Scene": 1001,
  "Appid": "251255419"
}
```

2.2 UserInfo

Element	Data Type	Required?	Description
UserId	String	Yes	Account ID
UserBalance	String	No	Total recharge amount or account balance
UserMembershipLevel	String	No	Account level
UserPoint	Integer	No	Account points
UserRegIp	String	No	Registration IP
UserRegEmail	String	No	Registration email
UserRegTime	Integer	No	Registration time (Unix timestamp in seconds)
UserRegZone	String	No	Registration timezone Example: UTC + 0800
UserRegCountryCode	String	No	Registration country code (ISO 3166-1 alpha-2)

UserRegState	String	No	Registration state/province
UserRegCity	String	No	Registration city
UserRegStreet	String	No	Registration street
UserRegPhoneNo	String	No	Registration phone number
UserRegSource	String	No	Registration traffic source
UserRegInviter	String	No	Registration inviter
UserRegZipcode	String	No	Registration zip code
UserLastLoginTime	String	No	Last login time (Unix timestamp in seconds)
UserLastLoginTimeZone	String	No	Last login timezone
UserLastLoginIp	String	No	Last login IP
UserRegDevice	String	No	Registration device
UserRegDeviceType	String	No	Registration device OS type
UserRegType	String	No	Registration system version
UserExtraFeature	Array of BizKv	No	Customer-specific fields

Example:

```
"UserInfo": {
  "UserId": "test_user_id",
  "UserMembershipLevel": "30",
  "UserPoint": 30,
  "UserRegIp": "9.223.148.55",
  "UserRegTime": 1731280948,
  "UserLastLoginIp": "9.223.148.55",
  "UserExtraFeature": []
}
```

2.3 OrderInfo

Element	Type	Required?	Description
OrderId	String	No	Order ID
OrderTime	String	No	Order time (Unix timestamp in seconds)
OrderTimeZone	string	No	Order timezone
OrderTimeDiff	Integer	No	Time difference between order and login (seconds)
OrderHttpUserAgent	string	No	HTTP User-Agent
OrderHttpLanguage	string	No	HTTP Accept-Language
OrderDevice	String	No	Order device
OrderDeviceType	String	No	Order device OS type
OrderSysType	String	No	Order system version
OrderDeviceToken	string	No	Order device token Recommended if using WeTech device

			detection)
OrderIP	String	No	Order IP
OrderURL	String	No	Order storeURL
OrderSource	String	No	Order traffic source
OrderCurrency	String	No	Order currency (ISO 4217). Example:USD
OrderTotalAmt	String	No	Total order amount
OrderItemCount	String	No	Total item count
OrderItemAmt	String	No	Total item value
OrderTotalFreight	String	No	Total shipping cost
OrderSaleFlag	String	No	Discount flag
OrderGiftFlag	String	No	Gift flag
OrderExtraFeature	Array of BizKv	No	Customer-specific fields

Example:

```
OrderInfo": [
{
"OrderId": "test_order_id",
"OrderCurrency": "test_order_currency",
"OrderExtraFeature":[
{"Key": "BillId", "Value": "test_bill_id"},
{"Key": "BoxInStorage", "Value": "test_box_in_storage"},
{"Key": "ShopSource", "Value": "JD"},
{"Key": "ReceiveType", "Value": "1"},
]
}
]
```

2.4 OrderItemInfo

Element	Type	Required?	Description
OrderId	String	No	Order ID
ItemId	String	No	Item category ID
ItemType	String	No	Item type
ItemCount	Integer	No	Item quantity
ItemPrice	Float	No	Unit price
ItemExtraFeature	Array of BizKv	No	Customer-specific fields

Example:

```
OrderItemInfo": [
{
"OrderId": "test_order_id",
"ItemId": "test_item_id",
"ItemType ": "test_item_type",
```

```
"ItemCount": 30,
"ItemPrice": 5.5,
"ItemExtraFeature":[]
}
]
```

2.5 DeliveryInfo

Element	Type	Required?	Description
OrderId	String	No	Order ID
DeliveryId	String	No	Shipping package ID
DeliveryAdrArea	String	No	Country/region
DeliveryAdrState	String	No	State/province
DeliveryAdrCity	String	No	City
DeliveryAdrStreet	String	No	Street address
DeliveryAdrZipcode	String	No	Zip code
DeliveryAdrConsignee	String	No	Consignee name
DeliveryAdrPhone	String	No	Consignee phone
DeliveryAdrEmail	String	No	Consignee email
DeliveryType	String	No	Delivery Carrier Example: SF,EMS,USPS
DeliveryFee	String	No	Shipping fee
DeliveryAdrPhoneState	String	No	Phone area code
DeliveryExtraFeature	Array of BizKv	No	Customer-specific fields

Example:

```
"DeliveryInfo":[
{
"OrderId": "test_item_id",
"DeliveryAdrArea": "test_delivery_adr_area",
"DeliveryAdrState": "test_delivery_adr_state",
"DeliveryAdrCity": "test_delivery_adr_city",
"DeliveryExtraFeature":[
{"Key": "BillId", "Value": "test_bill_id"},
{"Key":"CustomsClearanceSwitch","Value":"test_customs_clearance_switch"},
{"Key": "TotalItemPrice", "Value": 999},
{"Key": "RealCostSave", "Value": 123},
]
}
]
```

2.6 PaymentInfo

Element	Type	Required?	Description
PayId	String	Yes	Payment ID/transaction ID
PayTime	Integer	Yes	Payment time (Unix timestamp in seconds)
PayTimeZone	String	Yes	Payment timezone
PayType	String	No	Payment method Example: CreditCard, Digital Wallet)
PayChannelName	String	No	Payment channel Example: Stripe, Adyen
PayMoney	float	Yes	Payment amount
PayCurrency	String	Yes	Payment currency (ISO 4217)
PayHttpUserAgent	String	No	HTTP User-Agent
PayHttpLanguage	String	No	HTTP Accept-Language
PayDevice	String	No	Payment device
PayDeviceType	String	No	Payment device OS type
PaySysType	String	No	Payment system version
PayIP	String	Yes	Payment IP
PayDeviceToken	String	No	Payment device token
PayDeviceIdentity	String	No	Merchant-defined device/browser ID
WalletPayUserName	String	No	Wallet username
WalletPayAccount	String	No	Wallet account
PayBillingCountry	String	No	Billing country
PayBillingPostCode	String	No	Billing zip code
PayBillingPhoneNo	String	No	Billing phone number
PayBillingState	String	No	Billing state
PayBillingCity	String	No	Billing city
PayBillingStreet1	String	No	Billing street address
PayBillingStreet2	String	No	Billing street number
PayBillingEmail	String	No	Billing email
PayCardNo4	String	No	Last 4 digits of card
PayCardNo6	String	No	First 6 digits of card
CardPayNoHMAC	String	No	HMAC of the full card number (based on SHA-256 HMAC algorithm). Please contact WeTech support team to obtain the key.
CardPayType	String	No	Card type (Credit/Debit/Prepaid)
CardPayBankName	String	No	Issuing bank name
CardPayBankCountry	String	No	Issuing bank country
CardPayBankPhoneCountry	String	No	Issuing bank phone country code

Code			
CardPayBankPhoneNumber	String	No	Issuing bank phone number
PayCardExpTime	String	No	Card expiration date Format: YYYYMM
PayCardHolderFirstname	String	No	Cardholder first name
PayCardHolderLastname	String	No	Cardholder last name
PayBillAddress	String	No	Full billing address
PaymentResult	Int	No	Payment result Value: 0= Success 1= Fail
PaymentMessage	String	No	Payment result message
Is3dsUsed	Int	No	3DS used Value: 0= False 1= True
T3DSValue	String	No	3DS result Value: 0= Success 1= Fail
ECIValue	String	No	ECI value
AVSValue	String	No	AVS result Value: 0= Success 1= Fail
CVCValue	String	No	CVC result Value: 0= Success 1= Fail
PayDeviceBrand	String	No	Device brand
PayDeviceModel	String	No	Device model
PayAppVersion	String	No	App version
PayScreenMetrics	String	No	Screen resolution
PaySysLanguage	String	No	System language
PaySysTimeZone	String	No	System timezone
PayGameLanguage	String	No	Game/app language
PaySysApps	String	No	Installed apps list
PayDeviceRisk	String	No	Device risk
PayExtraFeature	Array of BizKv	No	Customer-specific fields

Example:

```
"PaymentInfo": {
  "PayId": "test_payment_id",
  "PayType": "CreditCard",
```

```
"PayTime": 1731280948,
"PayExtraFeature": []
}
```

2.7 ExtraInfo

Element	Type	Required?	Description
Details	Array of BizKv	No	Customer-specific fields

Example #1:

```
"ExtraInfo": { "Details": [
{
"Key": "UserRefundCnt",
"Value": "8"
},
{
"Key": "UserDeviceTypeCnt",
"Value": "1"
}
]
}
```

Example #2:

```
"ExtraInfo": {"Details": []}
```

Example #3:

```
"ExtraInfo": { }
```

3. Output Response

Element	Type	Description
Data	Data	Response body
RequestId	String	Unique request ID

3.1 Response body

Element	Type	Description
UUid	String	Request trace ID for Notify API reporting
Code	UInt64	Return code. 0= success
Message	String	Error message
Value	OutputInfo	Output information

3.2 OutputInfo

Element	Type	Description
ReferenceCode	Uint64	Decision result Value: 0= Approve 1= Decline 2= Manual review(optional) 3= 3DS recommended(optional)
RuleCode	Array of String	Decline reason code
ModelCode	Uint64	Model status Value: 0= POC 1= Production

4. Examples

4.1 Request Example

POST / HTTP/1.1

Host: rce.na-siliconvalley.wetech-rc.com

Content-Type: application/json

X-TC-Timestamp: 1695817824

X-TC-Region: na-siliconvalley

X-TC-Version: 2024-06-21

X-TC-Action: DescribeEcommerceStrategy

Authorization: TC3-HMAC-SHA256

Credential=AKIDY1LTQp34sTs44vbP6bv41kfQzLWZP2Rc/2023-09-27/ra/tc3_request,SignedHeaders=content-type;host,

Signature=4bb7f1650e41000ce2c38b961d86c42946b6c9e02ba2928ae8e75b0f46ff26d5

See the corresponding demo file for Header field definitions and signature generation.

<Common Response Parameters>

{

 "BizCryptoData ":{

 "CryptoType":"1",

 "IsAuthorized":"1",

 "CryptoContent":"

LkwODPtI5do9X1wN2RgVBrfIPTOUk5QCMOslhTTmb8T8iNtp3arnKw/6Qz18++HrMXEAoD6mNiUX
sYSBIBvWmCuEsJ3MEEp4QP2kNTDatlGtHjk7kZOoVngx+o33Mt4aHrK+9HTpX68ekfObqPmt7/nRlg
VgFh4YzNzNr3B8uQ4qWIAuqn96T6jsY/J3DOe8tHh6aLDw3qqZMqL0LuYk/63e7gwNKCAflyhZ+k6o

```
ZAkD+Xt7UIX0uuwWFdhjkPEU7DbXv7F14/Xtw4zIYrePh3wFn+OAWVZhASqI6XIQvY9D5LP7PGYfnn
QdKmJeQuDLLxaSLL3Xum043exoaAJrpFM0b5UfGYTSw6NjxK4Wa1BN2S20BIY664rDJH8Uom3e4
WwlgE88RH5LTa8Dw/Y68fMec+gYUQJFG5pyrL6rvMigG0TU0XT1Ds53ipLJ4Cn6QGtl7IfyoCZCLVGk
7rWUe4vfEI1SYc/JnIXyT29XordKRorIR94V033BENFEN9xPdzvj7LDQDMCy9i3JtuU/ArP6vYIRXaJR+I9
UnVzd+0i4vBpn4uqXKV1bcDRDDMjpbRFUcYW+UDFWeVaoOXTQ02UdTUNghA89mJPgHrLszdsSS
mNeXz+oZrITCEvX2Auim6Flv7+S5QavdYWW3yVsEO9Ib84vn82ligvnlEVIbyijaltAFITgXukXY/+tA2Khr
34MRN6riHe6/sdC4qkDxWoU16hKuP4Rt6H0ipiaAMwi6A6jEtM+J/pBWS1zIDD0jpisPnJaX0yL/34q
B7tRGWvS8D5CbzpMMiDsft7kdzyypS9aqVtdETkm9JJ0oXI+843mrJaXjNZq3T7ZK6C5up3ZS/08c/LP
SI4ftjDiaGuq2mrqGPvpYKcWtNDoaK/cOQJHKowdL8yY89//L1bQ=="
```

```
    }
}
```

4.2 BizCryptoData_CryptoContent_json Example

Parameter: BizCryptoData.CryptoContent – Plaintext Data Format (Before Encryption)

```
{
  "BasicInfo": {
    "Appid": "1317381511",
    "Scene": 1001
  },
  "UserInfo": {
    "UserRegIp": "9.223.148.45",
    "UserMembershipLevel": "1",
    "UserId": "123456",
    "UserLastLoginIp": "9.223.148.45",
    "UserRegTime": 1731280948,
    "UserExtraFeature": []
  },
  "OrderInfo": [{
    "OrderCurrency": "test_order_currency",
    "OrderExtraFeature": [ ],
    "OrderId": "123456",
    "OrderPayAmt": 10
  }],
  "OrderItemInfo": [{
    "ItemExtraFeature": [ ],
    "ItemPrice": 5,
    "ItemCount": 2,
    "OrderId": "123456",
    "ItemId": "111",
    "ItemTypeId": "222"
  }],
  "PaymentInfo": {
    "PayId": "test_payment_id",
```

```
"PayExtraFeature": [],
"PayType": "test_payment_type",
  "PayTime": 1731280948
},
"DeliveryInfo": [{
"DeliveryAdrState": "test_delivery_adr_state",
  "DeliveryExtraFeature": [],
  "OrderId": "test_item_id",
  "DeliveryAdrCity": "test_delivery_adr_city",
  "DeliveryAdrArea": "test_delivery_adr_area"
}]
}
```

4.3 Response Body Example

```
{
"Response": {
"Data": {
"UUid": "abcd11111111111111",
"Code": 0,
"Message": "OK",
"Value": {
"ReferenceCode": 1,
"RuleCode": ["HRule001"]
}
},
"RequestId": "518db66d-6b1e-4e87-a32c-59f590bbba65"
}
```

Interface Testing – Critical Parameter Validation Specifications

This chapter lists the key parameter fields and their assignment specifications related to payment risk control effectiveness. To facilitate thorough testing of these parameter assignment specifications before your service goes live, we have provided a dedicated interface for testing field validation compliance. Details are as follows:

Simply change the Action value in the request header to: `DescribePreEcommerceStrategy`

Parameter Assignment Specifications and Validation Rule Examples

Module 2.2 – UserInfo

Element	Requirement Level a.Required b.Conditionally Required (based on scenario) c.Recommended (optional)	Validation Requirement	Sample Error Response for Invalid Assignment
UserRegIp	Conditionally required (Required if registration-related scenarios)	IPv4: dotted quad IPv6: hexadecimal colon notation	The UserRegIp parameters are incorrectly formatted.
UserRegEmail	Conditionally required (Required if email registration scenarios)	Must contain @	The UserRegEmail parameters are incorrectly formatted.
UserRegTime	Conditionally required Required if email registration scenarios)	Unix timestamp (seconds). Valid range: 0–2147483647, corresponding to 1970-01-01 00:00:00 to 2038-01-19 00:00:00	The UserRegTime parameter values are incorrect.
UserRegZone	Recommended	Must start with UTC	The UserRegZone parameters are incorrectly formatted.
UserLastLoginTime	Recommended	Unix timestamp (seconds). Valid range: 0–2147483647, corresponding to 1970-01-01 00:00:00 to 2038-01-19 00:00:00	The UserLastLoginTime parameter values are incorrect.
UserLastLoginTimeZone	Recommended	Must start with UTC	The UserLastLoginTimeZone parameters are incorrectly formatted.
UserLastLoginIp	Recommended	IPv4: dotted quad IPv6: hexadecimal colon notation	The UserLastLoginIp parameters are incorrectly formatted.

Full Validation Error Response Example

UserInfo.UserRegZone

```
{
  "Response": {
    "Error": {
      "Code": "InvalidParameter.ParamError",
      "Message": "The UserRegZone parameters are incorrectly formatted."
    },
    "RequestId": "02b6c13f-dba1-4418-bc27-e82b32ca1251"
  }
}
```

Module 2.3 – OrderInfo

Element	Requirement Level a.Required b.Conditionally Required (based on scenario) c.Recommended (optional)	Validation Requirement	Sample Error Response for Invalid Assignment
OrderTime	Required	Unix timestamp (seconds). Valid range: 0–2147483647	The OrderTime parameter values are incorrect.
OrderTimeZone	Required	Must start with UTC	The OrderTimeZone parameters are incorrectly formatted.
OrderIP	Required	IPv4: dotted quad IPv6: hexadecimal colon notation	The OrderIP parameters are incorrectly formatted.

Full Validation Error Response Example

OrderInfo.OrderTime

```
{
  "Response": {
    "Error": {
      "Code": "InvalidParameter.ParamError",
      "Message": "The OrderTime parameter values are incorrect."
    },
    "RequestId": "759b286c-ae4f-4674-82a1-de47fe99fe1f"
  }
}
```

Module 2.6 – PaymentInfo

Element	Requirement Level a.Required b.Conditionally Required (based on scenario) c.Recommended (optional)	Validation Requirement	Sample Error Response for Invalid Assignment
PayTime	Required	Unix timestamp (seconds). Valid range: 0–2147483647	The PayTime parameter values are incorrect.
PayTimeZone	Required	Must start with UTC	The PayTimeZone parameters are incorrectly formatted.
PayIP	Required	IPv4: dotted quad IPv6: hexadecimal colon notation	The PayIP parameters are incorrectly formatted.
PayBillingEmail	Recommended	Must contain @	The PayBillingEmail parameters are incorrectly formatted.
PayCardNo4	Conditionally required (Required if payment method is not PayPal)	String (4 digits)	The PayCardNo4 parameters are incorrectly formatted.
PayCardNo6	Conditionally required (Required if payment method is not PayPal)	String (6 digits)	The PayCardNo6 parameters are incorrectly formatted.

Full Validation Error Response Example

PaymentInfo.PayTime

```
{
  "Response": {
    "Error": {
      "Code": "InvalidParameter.ParamError",
      "Message": "The PayTime parameter values are incorrect."
    },
    "RequestId": "7ba6dbeb-eb70-42c6-8ae5-77c4e93ff437"
  }
}
```

WeTech Risk Control Notify API

The Notify API is used to synchronize fraud or chargeback information to WeTech. Additionally, dispute information and transaction failure details can be reported through the `ExtraInfo` field of the Notify API.

1. Notify API Request – Header

Element	Type	Required?	Description
X-TC-Action	String	Yes	API common parameter. Value:DescribeEcommerceNotify
X-TC-Version	String	Yes	API common parameter. Value:2024-06-21
X-TC-Region	String	Yes	API common parameter. Value:na-siliconvalley
X-TC-Timestamp	String	Yes	API common parameter. Current UNIX timestamp (seconds). Example:1529223702. Note: If the difference from server time exceeds 5 minutes, a signature expiration error will occur.
Host	String	Yes	Request domain
Authorization	String	Yes	HTTP standard authentication header. Format: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/Date/Service/tc3_request, SignedHeaders=content-type;host, Signature=fe5f80f77d5fa3beca038a248ff027d0445342fe2855ddc963176630326f1024 Note: TC3-HMAC-SHA256: The signing method. This value is currently fixed Credential: The signing credential. <code>AKIDEXAMPLE</code> is the SecretId. <code>Date</code> is the UTC standard date, and its value must match the UTC standard date converted from the common parameter <code>X-TC-Timestamp</code> . <code>Service</code> is the product name; for this product, the value is <code>ra</code> . <code>tc3_request</code> is a fixed string. <code>SignedHeaders</code> : The headers involved in signature calculation. <code>content-type</code> and <code>host</code> are required headers. <code>Signature</code> : The signature digest. For the calculation process, please refer to the documentation.

1.1 Body

Element	Type	Required?	Description
BizCryptoData	BizCryptoData	Yes	Data encryption parameters

1.2 BizCryptoData

Element	Type	Required?	Description
IsAuthorized	String	Yes	Values: 1= authorized
CryptoType	String	Yes	Encryption type:1= AES encryption
CryptoContent	String	Yes	When non-empty, the interface uses encryption mode. (See Encryption Instructions)

Encryption Instructions:

The interface supports the use of encryption mode for transmitting business parameters via the `BizCryptoData` parameter.

When `CryptoContent` is not empty, the interface triggers encryption mode. Taking AES encryption as an example, the encryption steps are as follows:

1. Obtain ClientID, perform base64 encoding to get AES key. If key \geq 32 bytes, take first 32 bytes; if \geq 24 bytes, take first 24 bytes; if \geq 16 bytes, take first 16 bytes
2. Use the key from step 1 to encrypt the business data object using AES/ECB/PKCS7Padding. The business data object is the JSON string of the `BizCryptoData.CryptoContent` parameter. (For a JSON example, see section 4.2, "BizCryptoData.CryptoContent JSON Format".)
3. Perform base64 encoding on the byte array obtained from the AES encryption in step 2 to obtain the final `CryptoContent`.

2. CryptoContent [Plaintext Data Before Encryption]

Element	Type	Required?	Description
BasicInfo	BasicInfo	Yes	See BasicInfo
NotifyInfo	NotifyInfo	Yes	See NotifyInfo
PaymentInfo	PaymentInfo	No	See PaymentInfo
ExtraInfo	ExtraInfo	Yes	See ExtraInfo

2.1 BasicInfo

Element	Data Type	Required?	Description
Scene	Integer	Yes	Value:1001

Appid	String	Yes	Fixed value. Appid is provided by WeTech.
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Example:

```
"BasicInfo": {
"Scene": 1001,
"Appid": "251255419"
}
```

2.2 NotifyInfo

Element	Type	Required?	Description
UUId	String	Yes	UUID from risk API response
UserId	String	No	Account ID
PayId	String	No	Payment ID/transaction ID
ChargebackCode	Integer	No	Chargeback flag Value: 1: chargeback
FraudCode	Integer	No	Fraud flag Value: 1= fraud
ChargebackAmount	Float	No	Chargeback amount
ChargebackAmountCurrency	String	No	Chargeback currency
ChargebackReasonCode	String	No	Chargeback reason code Example: 10.1,13.1,4871
ChargebackReason	String	No	Chargeback reason description
ChargebackProcess	String	No	Chargeback stage
RefundCode	Integer	No	Refund flag: Value: 1:user-initiated refund 2: merchant-initiated refund
RefundReason	String	No	Refund reason
ExtraInfo	Array of BizKv	No	Extended fields

Example #1:

```
"NotifyInfo": {
  "UUId": "60c02264-ac13-ba56-74d8-f5a45247b085",
  "ExtraInfo": []
}
```

Example #2:

```
"NotifyInfo": {
  "UUId": "60c02264-ac13-ba56-74d8-f5a45247b085",
  "UserId": "test_user_id",
}
```

```

"PayId": "test_pay_id",
"ChargebackAmount": 10000.5,
"ChargebackAmountCurrency": "USD",
"ChargebackReasonCode": "10.1",
"ChargebackReason": "EMV 责任转移-仿冒卡欺诈",
"ChargebackProcess": "need_response",
"ExtraInfo": [{
  "Key": "jhon",
  "Value": "boy"
},
{
  "Key": "kathy",
  "Value": "girl"
}
]
}

```

2.3 PaymentInfo

Element	Type	Required?	Description
PaymentResult	Int	No	Payment result Value: 0= Success 1= Fail
PaymentMessage	String	No	Payment result message
Is3dsUsed	Int	No	3DS used Value: 0= False 1= True
T3DSValue	String	No	3DS result Value: 0= Success 1= Fail
ECIValue	String	No	ECI value
AVSValue	String	No	AVS result Value: 0= Success 1= Fail
CVCValue	String	No	CVC result Value: 0= Success 1= Fail
ExtraInfo	Array of BizKv	No	Extended fields

Example :

```
"PaymentInfo": {
  {
    "PaymentResult": 0,
    "PaymentMessage": "card_declined",
    "Is3dsUsed": 0,
    "ECIValue": "07",
    "AVSValue": "1",
    "CVCValue": "1",
    "ExtraInfo": []
  }
}
```

2.4 ExtraInfo

Element	Type	Required?	Description
Details	Array of BizKv	No	Extended fields

Example :

```
"ExtraInfo": {
  "Details": [
    {
      "Key": "ExtraInfoDetailsKey1",
      "Value": "123"
    },
    {
      "Key": "ExtraInfoDetailsKey2",
      "Value": "123"
    }
  ]
}
```

3. Output Response

Element	Type	Description
Data	Data	Response body
RequestId	String	Unique request ID

3.1 Data

Element	Type	Description
Code	UInt64	Return code.0= success
Message	String	Error message

4. Examples

4.1 Request Example

POST / HTTP/1.1

Host: rce.na-siliconvalley.wetech-rc.com

Content-Type: application/json

X-TC-Timestamp: 1695817824

X-TC-Region: na-siliconvalley

X-TC-Version: 2024-06-21

X-TC-Action: DescribeEcommerceNotify

Authorization: TC3-HMAC-SHA256

Credential=AKIDY1LTQp34sTs44vbP6bv41kfQzLWZP2Rc/2023-09-27/ra/tc3_request,SignedHeaders=content-type;host,

Signature=4bb7f1650e41000ce2c38b961d86c42946b6c9e02ba2928ae8e75b0f46ff26d5

See the corresponding demo file for Header field definitions and signature generation.

<Common Response Parameters>

```
{
  "BizCryptoData ":{
    "CryptoType":"1",
    "IsAuthorized":"1",
    "CryptoContent":
      LkwODPtI5do9X1wN2RgVBrfIPTOUk5QCMOslhTTmb8T8iNtp3arnKw/6Qz18++HrMXEAoD6mNiUX
      sYSBIBvWmcuEsJ3MEEp4QP2kNTDatlGtHjk7kZOoVngx+o33Mt4aHrK+9HTpX68ekfObqPmt7/nRlg
      VgFh4YzNzNr3B8uQ4qWIAuqn96T6jsY/J3DOe8tHh6aLDw3qqZMqL0LuYk/63e7gwNKCAflyhZ+k6o
      ZAKd+Xt7UIX0uuwWfDhjkPEU7DbXv7F14/Xtw4ziYrePh3wFn+OAWVZhASqI6XIQviY9DSLp7PGYfnn
      QdKmJeQuDLLxaSLL3Xum043exoaAJrpFM0b5UfGYTSw6NjxK4Wa1BN2S20BIY664rDJJH8Uom3e4
      WwlgE88RH5LTa8Dw/Y68fMec+gYUQJFG5pyrL6rvMigG0TU0XT1Ds53ipLJ4Cn6QGtl7IfyoCZCLVGk
      7rWUe4vfEI1SYc/JnIXyT29XordKRorIR94V033BENFEN9xPdzvj7LDQDMCy9i3JtuU/ArP6vYIRXaJR+I9
      UnVzd+0i4vBpn4uqXKV1bcDRDDMjpbRFUcYW+UDFWeVaoOXTQ02UdTuNGhA89mJPgHrLszdsSS
      mNeXz+oZrITCEvX2Auim6Flv7+S5QavdYWW3yVsEO9Ib84vn82ligvnleVIbyijaltAFITgXukXY/+tA2KhR
      34MRN6riHe6/sdC4qkDxWoU16hKuP4Rt6H0ipiaAMwi6A6jEtM+J/pBWS1zIDDOjpisPnJaX0yL/34q
      B7tRGWvS8D5CbzpMMiDsft7kdzyypS9aqVtdETkm9JJ0oXI+843mrJaXjNZq3T7ZK6C5up3ZS/08c/LP
      SI4ftjDiaGuq2mrqGPvpYKcWtNDoaK/cOQJHKowdL8yY89//L1bQ=="
  }
}
```

4.2 BizCryptoData_CryptoContent_json Example

Parameter: BizCryptoData.CryptoContent – Plaintext Data Format (Before Encryption)

```
{
  "BasicInfo": {
```

```
    "Scene": 1001,
    "Appid": "251255419"
  },
  "NotifyInfo": {
    "UUid": "60c02264-ac13-ba56-74d8-f5a45247b085",
    "UserId": "test_user_id",
    "PayId": "test_pay_id",
    "ChargebackCode": 1,
    "FraudCode": 1,
    "ExtraInfo": [{"Key": "ExtraInfoKey1", "Value": "123"},
{"Key": "ExtraInfoKey2", "Value": "123" }
  ],
  "ExtraInfo": {
    "Details": [{"Key": "ExtraInfoDetailsKey1", "Value": "123"},
{"Key": "ExtraInfoDetailsKey2", "Value": "123"}]
  }
}
```

4.3 Response Body Example

```
{
  "Response": {
    "Data": {
      "Code": 0,
      "Message": "OK"
    },
    "RequestId": "518db66d-6b1e-4e87-a32c-59f590bbba65"
  }
}
```

Error Codes – A

Error Code	Description
Service.Fail	Merchant service does not exist
Params.Fail	Parameter validation error
Action.Fail	Action does not exist
Timestamp.Fail	Timestamp timeout / expired
ActionOffline	API has been offline
AuthFailure.InvalidAuthorization	Authorization in request header does not comply with Tencent Cloud standard
AuthFailure.InvalidSecretId	Invalid secret key (not a Cloud API key type)
AuthFailure.MFAFailure	MFA error
AuthFailure.SecretIdNotFound	Secret key not found. Please check whether the key has been deleted or disabled in the console; if status is normal, verify the key is entered correctly without leading/trailing spaces.
AuthFailure.SignatureExpire	Signature expired. Timestamp and server time difference must not exceed 5 minutes; verify local time is synchronized with standard time.
AuthFailure.SignatureFailure	Signature error. Signature calculation is incorrect; review the signature calculation process against the signature method documentation.
AuthFailure.TokenFailure	Token error.
AuthFailure.UnauthorizedOperation	Request not authorized. Refer to CAM documentation for authorization details.
DryRunOperation	DryRun operation; the request would succeed, only the DryRun parameter was provided.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidAction	API does not exist.
InvalidParameter	Parameter error (including format, type, etc.).
InvalidParameterValue	Invalid parameter value.
InvalidRequest	Multipart format error in request body.
IpInBlacklist	IP address is in blacklist.
IpNotInWhitelist	IP address is not in whitelist.
LimitExceeded	Quota exceeded.
MissingParameter	Missing parameter.
NoSuchProduct	Product does not exist.
NoSuchVersion	API version does not exist.
RequestLimitExceeded	Request frequency limit exceeded.

RequestLimitExceeded.GlobalRegionUinLimitExceeded	Master account frequency limit exceeded.
RequestLimitExceeded.IPLimitExceeded	IP frequency limit exceeded.
RequestLimitExceeded.UinLimitExceeded	Master account frequency limit exceeded.
RequestSizeLimitExceeded	Request size exceeds limit.
ResourceInUse	Resource is in use.
ResourceInsufficient	Insufficient resources.
ResourceNotFound	Resource not found.
ResourceUnavailable	Resource is unavailable.
ResponseSizeLimitExceeded	Response size exceeds limit.
ServiceUnavailable	Service is currently unavailable.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter; extra undefined parameters provided by user cause this error.
UnsupportedOperation	Unsupported operation.
UnsupportedProtocol	HTTP(s) protocol error; only GET and POST requests are supported.
UnsupportedRegion	The API does not support the provided region.

Error Codes – B

Error Code	Description
InvalidParameterValue.BadBody	Request body error
InternalServerError.DecryptDataError	Request body decryption failed
ResourceUnavailable.PermissionDenied	Service not activated
InvalidParameter.MissParameter	Missing required parameter
InternalServerError	Internal error