



VOS3000
V2.1.9.07

Web Interface Manual

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1

Overview

This document describes the standard interfaces of Kunshi VOS3000. Some interfaces require the purchase of specific functional components to be implemented. Please check the Verify that the product you installed has this feature.

Interface Overview:

- The interface format is defined in JSON and encoded in UTF-8 format.
- The interface uses POST method to submit to VOS3000 WEB service
- For the interface return code, non-zero indicates failure. For the failure reason, refer to the return code definition.
- HTML header information Content-Type is set to text/html; charset=UTF-8
- An example of a general error return format is {"retCode":-10007,"exception":"Not found, operation failed."}
- For interface requests with performance and pressure requirements, it is recommended to arrange the same machine environment and test it before actual use.

Environment deployment.

2

Configuration

2.1 Access Configuration

Location: Interface Management - Web Access Control

WebServer_172.16.5.168	目录名称	允许接入IP	备注
WebServer_172.16.5.168	/external/server	127.0.0.1	
WebServer_172.16.5.168	/external/test/server	127.0.0.1	
WebServer_172.16.5.168	/external/server/GetCustomer	127.0.0.1,192.168.5.160	

- ÿ Web Server Device: Device Name
- ÿ Directory name: The interface directory range that is allowed to be accessed
 - ÿ /external/server: official interface
 - ÿ /external/server/GetCustomer: Refine the specific interface usage scope - query account
 - ÿ /external/test/server: browser visual debugging interface
- ÿ Allowed access IP: IP address used when accessing the interface
- ÿ Remark

2.2 Interface Address

http://IP address:HTTP port/directory name

https://IP address:HTTPS port/directory name

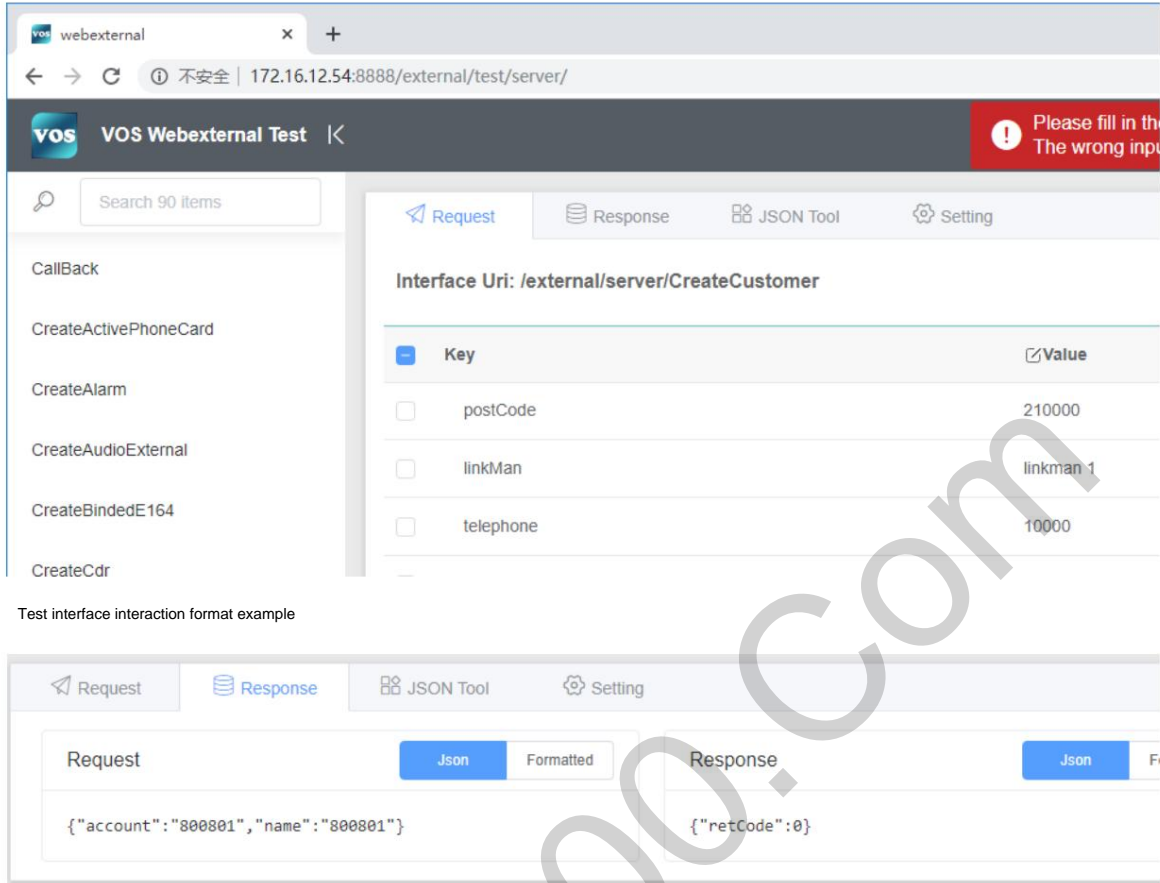
2.3 Debugging Interface

Once the interface is deployed, you can follow the link below or consult the technology provider for configuration and debugging.

<https://www.VOS3000.Com/#/support/faqdetail/33>

A test page is prepared for each request-accepting interface for reference.

Testable interface summary page



3

Functional Operation

Table header field description

ÿ	Required: M indicates a required field O indicates an optional field
ÿ	type:
ÿ	String represents a string with a length of less than 255 characters
ÿ	LongString represents a string with a length of less than 65535 characters
ÿ	Other type definitions follow the Java basic type definitions

3.1 Create an Account

Interface address/external/server/CreateCustomer

Request format

Parameter name	Required type		Description
account	M	String	Account number (a unique and visible identifier)
name	M	String	Account Name
money	THE	Double	Initial account balance (default: 0)
limitMoney	THE	Double	Initial overdraft limit when opening an account (default: 0)
feeRateGroup	THE	String	Billing rate
type	THE	Integer	Account Type 0: Ordinary account (default) 1: Phone card 2: Settlement Account
lockType	THE	Integer	Lock Type 0: Unlocked (default) 1: Lock
agentAccount	THE	String	Agent Account

Parameter name	Required type		Description
phoneBookLimit	THE	Integer	Phonebook upper limit (default: 0)
validTime	THE	Long	Account validity period (UTC 1970-01-01 to present) milliseconds 0: Use the expiration time determined by the system parameters
ctdBillingType	THE	Integer	Agent Callback Billing Model 0: Normal (default) 1: Traffic
memo	THE	String	Remarks
infoCustomerAdditional O		InfoCustomerAdditional Account Supplementary Information	

InfoCustomerAdditional format

Parameter name	Required type		Description
cardType	THE	Integer	Document type 0: ID card (default) 1: Passport 2: Military Officer Certificate 3: Work permit 4: Student ID 5: Other documents
cardNumber	THE	String	ID number
address	THE	String	address
postCode	THE	String	postal code
linkMan	THE	String	Contact
telephone	THE	String	telephone number
fax	THE	String	fax
email	THE	String	Email address
emailCc	THE	String	Cc address
emailBcc	THE	String	BCC address
reportType	THE	Integer	Report delivery type 0: Do not send (default) 1: Daily 2: Weekly 3: Monthly
companyName	THE	String	Company Name
bank	THE	String	Bank Name

Return format

Parameter name	Required	type	Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

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3.2 Modifying your account

Interface address/external/server/ModifyCustomer

Request format

Parameter name	Required type		Description
account	M	String	Account number (a unique and visible identifier)
name	THE	String	Account Name
limitMoney	THE	Double	Initial overdraft limit when opening an account (default: 0)
feeRateGroup	THE	String	Billing rate
type	THE	Integer	Account Type 0: Ordinary account (default) 1: Phone card 2: Settlement Account
lockType	THE	Integer	Lock Type 0: Unlocked (default) 1: Lock
agentAccount	THE	String	Agent Account
phoneBookLimit	THE	Integer	Phonebook upper limit (default: 0)
validTime	THE	Long	Account validity period (UTC 1970-01-01 to present) milliseconds)
ctdBillingType	THE	Integer	Agent Callback Billing Model 0:Normal 1: Traffic
memo	THE	String	Remarks
infoCustomerAdditional O		InfoCustomerAdditional	Account Supplementary Information

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.3 Deleting an Account

Interface address/external/server/DeleteCustomer

Request format

Parameter name	Required type		Description
account	M	String	Billing account number (unique and visible logo)

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.4 Account Query

Interface address/external/server/GetCustomer

Request format

Parameter name	Required type		Description
accounts	THE	String[]	Account number list (select at least one of the three options with e164s filterAgentAccount one)
e164s	THE	String[]	Phone number list
filterAgentAccount	THE	FilterAgentAccount	Agent account (indicates query only for this agent subordinate accounts)
type	THE	Integer	Account Type 0: Ordinary account 1: Phone card 2: Settlement Account

FilterAgentAccount format

Parameter name	Required type		Description
filterAgentAccount	M	String	Agent Account Number
querySonMode	M	int	0: All subordinate accounts 1: Direct subordinate accounts

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoCustomers	THE	InfoCustomer[]	Account Information

InfoCustomer format

Parameter name	Required type		Description
account	M	String	Account number (a unique and visible identifier)
name	M	String	Account Name
money	M	double	Initial account balance (default: 0)
limitMoney	M	double	Initial overdraft limit when opening an account (default: 0)

Parameter name	Required type		Description
feeRateGroup	M	String	Billing rate Empty string: no rate group
type	M	int	Account Type 0: Ordinary account (default) 1: Phone card 2: Settlement Account
lockType	M	int	Lock Type 0: Unlocked (default) 1: Lock
agentAccount	M	String	Agent Account Empty string: No agent
phoneBookLimit	M	int	Phonebook upper limit (default: 0)
canceled	M	boolean	true: logged out false: Not logged out
startTime	M	long	Account validity period (UTC 1970-01-01 to present) milliseconds 0: Use the expiration time determined by the system parameters
validTime	M	long	Account validity period (UTC 1970-01-01 to present) milliseconds 0: Use the expiration time determined by the system parameters
todayConsumption	M	double	Today's consumption
ctdBillingType	M	int	Agent Callback Billing Model 0:Normal 1: Traffic
category	M	int	Account Type 0: Ordinary account 1:Agent Account
bindedE164s	M	String []	Bound number list
memo	M	String	Remarks
infoCustomerAdditional M		InfoCustomerAdditional Account Supplementary Information	

3.5 Query all accounts

/external/server/GetAllCustomers

Request format

Parameter name	Required type		Description
Key	THE	integer	Query all accounts

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
accounts	THE	String	All account names

3.6 Creating a Phone

Interface address/external/server/CreatePhone

Request format

Parameter name	Required type		Description
autoCreateAccount	M	boolean	Create a billing account when creating a phone
e164	M	String	Phone number
account	THE	String	The account to which the phone belongs
password	THE	String	Phone password
displayNumber	THE	String	Outgoing Caller ID
lockType	THE	Integer	Lock Type 0: No lock 1: Lock outgoing calls 2: Lock incoming calls 3: Lock all
callLevel	THE	Integer	Permission Type 1: Intra-network calls 2: Local calls 4: Domestic long distance calls 5: International long distance

Parameter name	Required type		Description
feerateGroup	THE	String	Private phone billing rate (please refer to the operation manual Registration rate description) Usually not used This setting
monthlyMoneyMinimum O		Double	Minimum monthly spending
monthlyMoneyMaximum O		Double	Maximum monthly spending
monthlyRentFee	THE	Double	Monthly rent
rewriteRulesOutCallee	THE	LongString	Outgoing caller dialing rules must comply with the dialing rules Writing format
rewriteRulesInCallee	THE	LongString	Incoming called dialing rules must comply with the dialing rules Writing format
rewriteRulesInCaller	THE	LongString	Incoming caller dialing rules must comply with the dialing rules Writing format
routingGatewayGroupsAllow	THE	Boolean	true: Only the specified gateway group is allowed to be used as a land false: Disable the set gateway group as a landing
routingGatewayGroups	THE	String	Landing gateway group name (blank means all)
equipment	THE	String	The soft switch to which the phone belongs (blank means it belongs to all Softswitch)
calleeBilling	THE	Boolean	true: Enable called party billing false: Normal billing (calling number billing)
customerPassword	THE	String	Web query password
lineCallIn	THE	Integer	Limit on the number of incoming call lines
lineCallOut	THE	Integer	Outgoing call limit
lineCapacity	THE	Integer	Limit on the number of simultaneous calls (including incoming and outgoing calls)
phonebookLimit	THE	Integer	Phonebook quantity limit
callerLimitE164GroupsAllow	THE	Boolean	true: Allow incoming calls from the calling number group false: Disable incoming calls from the calling number group
callerLimitE164Groups O		String	Allowed/forbidden calling when the phone is the called party Number group (blank means all)
callLimitE164Allow	THE	Boolean	true: Allow outgoing called number group false: Disable the called number group for outgoing calls
streetLimitE164Groups O		String	Allowed/forbidden called parties when the phone is the calling party Number group (blank means all)
dids	THE	String	One phone, multiple numbers
memo	THE	String	Remark

Parameter name	Required type		Description
infoPhoneValueAdded	THE	InfoPhoneValueAdded	Phone value-added services
infoPhoneAdditional	THE	InfoPhoneAdditional	Phone Supplementary Settings

InfoPhoneValueAdded format

Parameter name	Required type		Description
callerIdDisplay	THE	Boolean	true: Enable caller ID false: Turn off caller ID
callTransfer	THE	Boolean	true: Allow call forwarding false: Disable call forwarding
doNotDisturb	THE	Boolean	true: Enable Do Not Disturb false: Turn off Do Not Disturb
periodForwarding	THE	Boolean	true: Enable time forwarding false: Forward during the closed period
infoPhoneValueAddedPeriodForwardings	THE	InfoPhoneValueAddedPeriodForwarding[]	Time period transfer settings
unconditionalForward	THE	Boolean	true: Enable unconditional forwarding false: Disable unconditional forwarding
unconditionalForwardE164 O		InfoPhoneValueAddedForwardE164	Unconditional forwarding number
noAnswerForward	THE	Boolean	true: Enable forwarding on no answer false: Disable no answer forwarding
noAnswerForwardE164 O		InfoPhoneValueAddedForwardE164	No answer forwarding number
offlineForward	THE	Boolean	true: Enable offline call forwarding false: Disable offline forwarding
offlineForwardE164	THE	InfoPhoneValueAddedForwardE164	Forwarding number when offline
busyForward	THE	Boolean	true: Enable call forwarding false: Disable forward on busy
busyForwardE164	THE	InfoPhoneValueAddedForwardE164	Forward busy number
callForwardDisplay	THE	Integer	Call forwarding caller ID 0: Default, use system parameter value 1: Original caller 2: Local number

Parameter name	Required type		Description
callTransferNormalDisplay O		Integer	Normal call forwarding caller ID 0: Default, use system parameter value 1: Original caller 2: Local number
callTransferAskDisplay	THE	Integer	Inquiry-based call forwarding with caller ID 0: Default, use system parameter value 1: Original caller 2: Local number
colorRing	THE	Boolean	true: Enable ringback tone false: Disable ringback tone
remoteColorRingPassthrou gh	THE	Boolean	true: Enable transparent transmission of ringback tone false: Disable ringback tone transmission
colorRingName	THE	String	Ringback tone name
language	THE	String	Unable to connect to voice prompt/Insufficient balance voice prompt Prompt/call remaining time interruption Word
unableToConnectVoicePro mpts	THE	Integer	Unable to connect to voice prompt 0: Default, use system parameter value 1: Enable 2: Close
callRemainingTimePrompt s	THE	Integer	Interrupt the remaining call time 0: Default, use system parameter value 1: Prompt the remaining amount 2: Prompt the remaining minutes 3: No prompt
balanceNotEnoughAlarm O		Integer	Insufficient balance voice prompt 0: Default, use system parameter value 1: Enable 2: Close
voiceMail	THE	Boolean	true: Voicemail is enabled false: Voicemail is off
voiceMailCheckPassword O		Boolean	true: Access voicemail verification password false: Accessing voicemail does not require password verification
voiceMailMaxNumber	THE	Integer	Number of voicemails retained -1: Determined by system parameters

Parameter name	Required type		Description
voiceMailExpireDay	THE	Integer	Voicemail message expiration days -1: Determined by system parameters
voiceMailAudioType	THE	Integer	0: default 1: Custom

InfoPhoneValueAddedPeriodForwarding format

Parameter name	Required type		Description
weekOfDay	THE	String	The effective day of the week setting can be separated by commas Multiple effective days such as 0,1 If not set, the default value is 0, 1, 2, 3, 4, 5, 6 0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday The whole week can be set to 0, 1, 2, 3, 4, 5, 6
beginSecondInDay	THE	Integer	Start time (the difference between the current time and 0:00 on the day) deviation in seconds If not set, the default value is 0 Value range 0-86400
endSecondInDay	THE	Integer	End time (the difference between the current time and 0:00 on the same day) deviation in seconds If not set, the default value is 86400 Value range 0-86400
forwardE164	THE	InfoPhoneValueAddedForwardE164	Forwarding number

InfoPhoneValueAddedForwardE164 format

Parameter name	Required type		Description
forwardMethod	THE	Integer	Forwarding mode, if not set, the default value is 0 0: Sequential 2: Random 3: Same vibration

Parameter name	Required type		Description
alertSecond	THE	Integer	<p>Ringling duration after forwarding (unit: seconds), for the most</p> <p>The next forwarding number is invalid</p> <p>If not set, the default value is -1</p> <p>-1: Use default value</p>
e164	THE	String	<p>Forwarding number, multiple numbers can be separated by commas</p> <p>code</p>

InfoPhoneAdditional format

Parameter name	Required type		Description
registerType	THE	Integer	<p>Registration method</p> <p>0: Static</p> <p>1: Dynamic</p> <p>2: Connect to the gateway</p>
protocol	THE	Integer	<p>protocol</p> <p>0:H323</p> <p>1:SIP</p>
ip	THE	String	IP address for static registration
port	THE	Integer	Port for static registration
localIp	THE	String	Local IP address used for static registration
rtpRelay	THE	Integer	<p>Media forwarding</p> <p>0: Automatic</p> <p>1: Enable</p> <p>2: Close</p> <p>3: Must be turned on</p>
rtpInterruptDetection	THE	Integer	<p>Media outage monitoring</p> <p>0: None</p> <p>1: Server to remote</p> <p>2: Remote to server</p> <p>3: Bidirectional</p>
callDurationLimit	THE	Integer	<p>Call duration limit (unit: seconds)</p> <p>-1: Default, use system parameter setting value</p> <p>0: None, no limit on call duration</p>
you are in CallerPhoneDisplay	THE	Integer	<p>The non-phonebook calling phone uses its outgoing caller ID</p> <p>0: Default, use system parameter setting value</p> <p>1: Enable</p> <p>2: Close</p>

Parameter name	Required type		Description
noBillingToPhone	THE	Integer	No charge when the other party is a telephone device 0: Default, use system parameter setting value 1: Enable 2: Close
displayCallerShortNumber O		Boolean	true: Display the calling number false: Do not display the calling number
useRoutingGatewayNotOnline	THE	Integer	Try landing gateway routing without online 0: Default, use system parameter setting value 1: Enable 2: Close
minProfitPercentEnable O		Boolean	Whether to enable the minimum profit margin limit
minProfitPercent	THE	Integer	If the minimum profit margin limit is set to 10, it means Profit margin is 10% Value range: -10000 to 10000
maxSecondRatesEnable O		Boolean	Maximum per-second rate limit true: Enable false Close
maxSecondRates	THE	Double	The highest second rate value (if the minute rate is 0.6, This value should be set to 0.01)
firstRoutingPolicy	THE	Integer	First routing strategy 0: None 1: Connection rate 2: Minimum second rate
secondRoutingPolicy	THE	Integer	Second routing strategy 0: None 1: Connection rate 2: Minimum second rate
sipAuthenticationMethod O		Integer	SIP call authentication method 0: Based on IP address 1: Based on IP address and port
sipRemoteAlertingMethod O		Integer	Remote ringback mode <small>0: Transparent transmission</small> 1:183+SDP 2:180+SDP
sipTimerSupport	THE	Boolean	true: Allow timer protocol (RFC4028) false: Disable timer protocol

Parameter name	Required type		Description
sip100RelSupport	THE	Boolean	true: Enable 100rel protocol false: Disable 100rel protocol
sipT38Support	THE	Boolean	true: Allow t38 protocol false: Disable t38 protocol
sipPrivacySupport	THE	Boolean	True: Identify Privacy false: Ignore Privacy
sipPrivacy	THE	Integer	0: None <small>1: Transparent transmission</small> 2:id 3:none
sipPPreferredIdentity	THE	Integer	0: None <small>1: Transparent transmission</small> 2: Caller ID
sipPAssertedIdentity	THE	Integer	0: None <small>1: Transparent transmission</small> 2: Caller ID
dtmfReceiveMethod	THE	Integer	DTMF receiving method 0: All 10:RFC2833 20:Signaling method 30: Close
dtmfSIPSendMethod	THE	Integer	SIP DTMF sending method 0: Automatic 10:RFC2833 50:SIP INFO 60: Close
sipCodecAssign	THE	Boolean	true:Specify SIP media codec false: Automatically negotiate SIP media codecs
sipCodecs	THE	String []	Media Codec Range audio/AMR audio/DV14 audio/G722 audio/G723 audio/G726-16 audio/G726-24 audio/G726-32 audio/G726-40 audio/G728

Parameter name	Required type	Description	
		audio/G729 audio/G729D audio/G729E audio/GSM audio/GSM-EFR audio/iLBC audio/L8 audio/L16 audio/LPC audio/MPA audio/parityfec audio/PCMA audio/PCMU audio/QCELP audio/RED audio/VDVI audio/Speex audio/Speex-FEC audio/Speex-Wideband audio/Speex-Wideband-FEC audio/SILK video/BT656 video/CelB video/JPEG video/H261 video/H263 video/H263-1998 video/H263-2000 video/H264 video/MPV video/MP2T video/MP1S video/MP2P video/parityfec video/RED video/BMPEG video/nv video/VP8	
audioCodecTranscodingEnable	THE	Boolean	true: Allow encoding conversion false: Do not allow encoding conversion
rtplIncludeDtmfInband	THE	Boolean	true: The media contains in-band DTMF false: The media does not contain in-band

Parameter name	Required type		Description
			(inband)DTMF
rtNeedDtmfInband	THE	Boolean	true: Inband DTMF must be used for transmission false: No additional in-band usage (inband) DTMF sending
ivrEquipmentType	THE	Integer	Voice device type -1: None 1: Direct dial callback 2: Enterprise switchboard 3: Value-added Services
ivrServiceName	THE	String	Voice service name
ivrCallbackBillingMode		Integer	Callback billing 0: The access number corresponds to the phone 1: Using a calling card 2: Adaptive (sequence: bind number - in use Phone card - calling number corresponding to phone - access number Answer the phone) 3: Caller ID corresponds to the phone
ivrCallbackMergeBillingMode	THE	Integer	Call back the second line superimposed billing method 0: None 1: Add the access number to the second channel 2: Add the calling number to the second line
ivrDirectMergeBillingMode	THE	Integer	Direct dial second line superimposed billing method 0: None 1: Add the access number to the second channel 2: Add the calling number to the second line
ivrSecondBillingMode	THE	Integer	Second billing method 0: The access number corresponds to the phone 1: Using a calling card 3: Caller ID corresponds to the phone
ivrCallbackBillingSecondNotConnectedOnAccessE164	THE	Boolean	true: If the second line is not connected, the access number will be used to connect Phone billing false: This parameter is not effective
ivrCallbackBillingSecondConnectedOnSecondAccount	THE	Boolean	true: If the second line is connected, the second account will be used Billing false: This parameter is not effective
ivrAccessVerifyActivePhoneCard	THE	Boolean	true: Caller ID verification using a calling card

Parameter name	Required type		Description
ivrAccessVerifyBindedE164	THE	Boolean	true: Caller ID verification and bound number
ivrAccessVerifyCallerE164Phone	THE	Boolean	true: calling number verification platform phone
ivrAccessVerifyAccessE164Phone	THE	Boolean	true: The called number verifies that the access number exists in the account
ivrEnablePhoneSetting	THE	Boolean	true: Enable phone settings false: Do not enable phone settings
lrnEnable	THE	Boolean	LRN Lookup true: Enable false: Disable
lrnEatPrefixLength	THE	Integer	Ignore the length of the called number prefix when querying LRN. degree
lrnFailureAction	THE	Integer	Behavior after a query failure 0: reject the call 1: Use the original number to continue the subsequent processing
lrnInterstateBillingPrefix O		String	LRN query for different region billing prefixes
lrnUndeterminedBillingPrefix	THE	String	After LRN query, one or two numbers cannot be found. The billing prefix when the region is known
rewriteCalleeMobileAreaE possible	THE	Boolean	true: Enable mobile area code addition false: Disable adding mobile area code
rewriteCalleeMobileArea O		String	Turn on or off the area code added to the mobile phone area code Use commas to separate multiple regions
callStateReport	THE	Boolean	Turn call status notifications on or off
sipRequestAddress	THE	Integer	0:Socket 1:Contact Port 2:Contact
sipResponseAddress	THE	Integer	0:Socket 1: Via Port 2:Via

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
password	THE	String	When a password is not set in the creation request, the system automatically Automatically generate random passwords

3.7 Modify Phone

Interface address/external/server/ModifyPhone

Request format

Parameter name	Required type		Description
e164	M	String	Create a billing account when creating a phone
password	THE	String	Phone password
displayNumber	THE	String	Outgoing Caller ID
lockType	THE	Integer	Lock Type 0: No lock 1: Lock outgoing calls 2: Lock incoming calls 3: Lock all
callLevel	THE	Integer	Permission Type 1: Intra-network calls 2: Local calls 3: Domestic long distance 4: International long distance calls
feerateGroup	THE	String	Private phone billing rate (please refer to the operation manual Registration rate description) Usually not used This setting
monthlyMoneyMinimum O		Double	Minimum monthly spending
monthlyMoneyMaximum O		Double	Maximum monthly spending
monthlyRentFee	THE	Double	Monthly rent
rewriteRulesOutCallee	THE	LongString	Outgoing caller dialing rules must comply with the dialing rules Writing format
rewriteRulesInCallee	THE	LongString	Incoming called dialing rules must comply with the dialing rules Writing format
rewriteRulesInCaller	THE	LongString	Incoming caller dialing rules must comply with the dialing rules Writing format
routingGatewayGroupsAll ow	THE	Boolean	true: Only the specified gateway group is allowed to be used as a land false: Disable the set gateway group as a landing
routingGatewayGroups	THE	String	Landing gateway group name (blank means all)
account	THE	String	The account to which the phone belongs

Parameter name	Required type		Description
equipment	THE	String	The soft switch to which the phone belongs (blank means it belongs to all Softswitch)
calleeBilling	THE	Boolean	true: Enable called party billing false: Normal billing (calling number billing)
customerPassword	THE	String	Web query password
lineCallIn	THE	Integer	Limit on the number of incoming call lines
lineCallOut	THE	Integer	Outgoing call limit
lineCapacity	THE	Integer	Limit on the number of simultaneous calls (including incoming and outgoing calls)
phonebookLimit	THE	Integer	Phonebook quantity limit
callerLimitE164GroupsAllow	THE	Boolean	true: Allow incoming calls from the calling number group false: Disable incoming calls from the calling number group
callerLimitE164GroupsO		String	Allowed/forbidden calling when the phone is the called party Number group (blank means all)
callLimitE164Allow	THE	Boolean	true: Allow outgoing called number group false: Disable the called number group for outgoing calls
streetLimitE164GroupsO		String	Allowed/forbidden called parties when the phone is the calling party Number group (blank means all)
dids	THE	String	One phone, multiple numbers
memo	THE	String	Remark
infoPhoneValueAdded	THE	InfoPhoneValueAdded	Phone value-added services
infoPhoneAdditional	THE	InfoPhoneAdditional	Phone Supplementary Settings

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.8 Deleting a Phone

Interface address/external/server/DeletePhone

Request format

Parameter name	Required type		Description
e164	M	String	telephone number

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.9 Query Phone

Interface address/external/server/GetPhone

Request format

Parameter name	Required type		Description
e164s	THE	String []	Phone number list (if accounts is not set then This parameter is required)
accounts	THE	String []	Account number list (if e164s is not set, this Parameter required)

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoPhones	THE	InfoPhone []	Phone information

InfoPhone format

Parameter name	Required type		Description
e164	M	String	Create a billing account when creating a phone
password	THE	String	Phone password
displayNumber	THE	String	Outgoing Caller ID
lockType	THE	Integer	Lock Type 0: No lock 1: Lock outgoing calls 2: Lock incoming calls 3: Lock all
callLevel	THE	Integer	Permission Type 1: Intra-network calls 2: Local calls 3: Domestic long distance 4: International long distance
feerateGroup	THE	String	Private phone billing rate (please refer to the operation manual Registration rate description) Usually not used This setting
monthlyMoneyMinimum O		Double	Minimum monthly spending

Parameter name	Required type		Description
monthlyMoneyMaximum O		Double	Maximum monthly spending
monthlyRentFee	THE	Double	Monthly rent
rewriteRulesOutCallee	THE	LongString	Outgoing caller dialing rules must comply with the dialing rules Writing format
rewriteRulesInCallee	THE	LongString	Incoming called dialing rules must comply with the dialing rules Writing format
rewriteRulesInCaller	THE	LongString	Incoming caller dialing rules must comply with the dialing rules Writing format
routingGatewayGroupsAllow	THE	Boolean	true: Only the specified gateway group is allowed to be used as a land false: Disable the set gateway group as a landing
routingGatewayGroups	THE	String	Landing gateway group name (blank means all)
account	THE	String	The account to which the phone belongs
equipment	THE	String	Softswitch to which the phone belongs Empty: indicates that it belongs to all soft switches Not selected: does not belong to any soft switch
calleeBilling	THE	Boolean	true: Enable called party billing false: Normal billing (calling number billing)
customerPassword	THE	String	Web query password
lineCallIn	THE	Integer	Limit on the number of incoming call lines
lineCallOut	THE	Integer	Outgoing call limit
lineCapacity	THE	Integer	Limit on the number of simultaneous calls (including incoming and outgoing calls)
phonebookLimit	THE	Integer	Phonebook quantity limit
callerLimitE164GroupsAllow	THE	Boolean	true: Allow incoming calls from the calling number group false: Disable incoming calls from the calling number group
callerLimitE164Groups O		String	Allowed/forbidden calling when the phone is the called party Number group (blank means all)
callLimitE164Allow	THE	Boolean	true: Allow outgoing called number group false: Disable the called number group for outgoing calls
streetLimitE164Groups O		String	Allowed/forbidden called parties when the phone is the calling party Number group (blank means all)
dids	THE	String	One phone, multiple numbers
memo	THE	String	Remark
infoPhoneValueAdded	THE	InfoPhoneValueAdded	Phone value-added services
infoPhoneAdditional	THE	InfoPhoneAdditional	Phone Supplementary Settings

3.10 Querying Online Phones

Interface address/external/server/GetPhoneOnline

Request format

Parameter name	Required type		Description
e164s	M	String []	Phone number list

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoPhoneOnlines	THE	InfoPhoneOnline []	Online phone information

InfoPhoneOnline format

Parameter name	Required type		Description
e164	M	String	telephone number
currentCall	M	int	Total current calls
remotelp	M	String	Remote Address
locallp	M	String	Local Address
registerTime	M	long	Registration time (UTC 1970-01-01 to present) milliseconds)
updateTime	M	long	Last updated (UTC 1970-01-01 to Today's milliseconds)
protocol	M	int	Protocol Type 0:H323 1:SIP
cryptoType	M	int	Encryption type 0: Not encrypted 1:RC4
productld	M	String	Device Name

3.11 Creating a Connecting Gateway

Interface address/external/server/CreateGatewayMapping

Request format

Parameter name	Required type		Description
name	M	String	Connected gateway name
password	THE	String	Registration password for the docking gateway
lockType	THE	Integer	Lock Type 0: No lock 3: Lock all
callLevel	THE	Integer	Permission Type 1: Intra-network calls 2: Local calls 4: Domestic long distance calls 5: International long distance
capacity	THE	Integer	Line Cap
priority	THE	Integer	Priority
gatewayGroups	THE	LongString	Gateway group to which it belongs (commas separate multiple groups name)
routingGatewayGroupsAllow	THE	Boolean	true: Allows the use of landing groups false: Disable the use of landing groups
routingGatewayGroups	THE	LongString	Restricted landing gateway group name, empty string list Show all
registerType	THE	Integer	Registration Type 0: Static 1: Dynamic 3: IMS Edge Devices
remotelps	THE	LongString	List of gateway IP addresses (comma separated IP addresses)
callerE164CheckEnable O		Boolean	true: Check the calling number standardization false: Do not check the calling number standardization
callerE164CheckCity	THE	Boolean	true: Allow the calling number to be a city number false: The calling number is not allowed to be a city number
callerE164CheckMobile O		Boolean	true: Allow the calling number to be a mobile number false: The calling number is not allowed to be a mobile number

Parameter name	Required type		Description
callerE164CheckOther	THE	Boolean	true: Allow the calling number to be a non-city number and Non-mobile number false: The calling number is not allowed to be a non-city number With non-mobile number
callerE164CheckEnable O		Boolean	true: Check the called number standardization false: Do not check the called number standardization
calleeE164CheckCity	THE	Boolean	true: Allow the called number to be a city number false: The called number is not allowed to be a city number
calleeE164CheckMobile O		Boolean	true: Allow the called number to be a mobile number false: The called number is not allowed to be a mobile number
calleeE164CheckOther	THE	Boolean	true: Allow the called number to be a non-city number Non-mobile number false: The called number is not allowed to be a non-city number With non-mobile number
customerPassword	THE	String	WEB query password
rtPForwardType	THE	Integer	Media forwarding type 0: Automatic 1: Enable 2: Close 3: Must be turned on
mediaCheckDirection	THE	Integer	Media interruption detection (only when a call is (Effective when forwarding) 0: No detection 1: Check whether there is a media message transmitted to the remote end 2: Check whether the media report from the remote end is received arts 3: Detect whether there is a two-way media report between the remote end and the local end arts
calleeE164Restrict	THE	Integer	Called number restriction 0: No limit 1: The called number must exist on the platform Phone number 2: The called number must not exist on the platform Phone number

Parameter name	Required type		Description
maxCallDurationLower O		Integer	Greater than 0: the lower limit of the maximum call time -1: Use system parameter value (need to be consistent with maxCallDurationUpper remains consistent) 0: No restrictions (need to be combined with maxCallDurationUpper remains consistent)
maxCallDurationUpper O		Integer	Greater than 0: Maximum call time limit -1: Use system parameter value (need to be consistent with maxCallDurationLower remains consistent) 0: No restrictions (need to be combined with maxCallDurationLower remains consistent)
allowPhoneBilling	THE	Boolean	When the calling number matches the platform phone number, You can use the phone number account to make calls Billing
allowBindedE164Billing O		Boolean	When the calling number matches the bound number, Use the account bound to the number to bill the call
enablePhoneSetting	THE	Boolean	When the calling number matches the platform phone number, The calling party uses the configuration of the platform phone to Continue processing
denySameCityCodesAllow O		Boolean	true: Allow denySameCityCodes setting area code to make calls in the same city false: Disable denySameCityCodes setting area code to make calls in the same city
denySameCityCodes	THE	LongString	List of city area codes where the local calling function is restricted (Use commas to separate multiple area codes)
checkMobileAreaAllow O		Boolean	true: Allow calling checkMobileArea The mobile number of the city corresponding to the area code false: Disable calling checkMobileArea The mobile number of the city corresponding to the area code
checkMobileArea	THE	LongString	City area codes where mobile number calling function is restricted List (use commas to separate multiple area codes)
calloutCalleePrefixesAllow O		Boolean	true: Allow calloutCalleePrefixes settings The prefix list is used as the prefix of the called number false: Disable calloutCalleePrefixes setting The prefix list is used as the prefix of the called number
calloutCalleePrefixes	THE	LongString	Called number prefix in the called number restriction function List (comma separated)
calloutCallerPrefixesAllow O		Boolean	true: Allow calloutCallerPrefixes settings The prefix list is used as the calling number prefix false: Disable calloutCallerPrefixes setting The prefix list is used as the calling number prefix

Parameter name	Required type		Description
calloutCallerPrefixes	THE	LongString	Caller ID prefix in the caller ID restriction function List (comma separated)
rewriteRulesOutCallee	THE	LongString	Callee dialing plan
rewriteRulesOutCaller	THE	LongString	Caller dialing plan
rewriteRulesInMobileArea Allow	THE	Boolean	true: enable rewriteRulesInMobileArea The area code you set corresponds to the mobile number of the city Add area code false: Close rewriteRulesInMobileArea The area code you set corresponds to the mobile number of the city Add area code
rewriteRulesInMobileArea O		LongString	Areas where mobile numbers need to have area codes added (can be separated by commas)
timeoutCallProceeding	THE	Integer	The maximum duration allowed for a call to not ring or connect Duration (unit: seconds) -1: Use system parameter setting value 0: No limit
sipResponseAddressMethod	THE	Integer	SIP Response signaling address 0: Respond to the original request address 1: Respond to the original request IP, but use the port Use the port identified in the Via header 2: Respond to the address identified in the Via header
sipRequestAddressMethod O		Integer	SIP Request signaling address 0: Request to the original request address 1: Request to the original request IP, but the port is Use the port identified in the Contact header 2: Request to the address identified in the Contact header
dtmfSendMethodH323	THE	Integer	H323 protocol, soft switch sends DTMF Mode 0: Automatic 10:RFC2833 20:H.245 alphanumeric 30:H.245 signal 40:Q.931 keypad 60: Close

Parameter name	Required type		Description
dtmfSendMethodSIP	THE	Integer	SIP protocol: Softswitch sends the calling DTMF Mode 0: Automatic 10:RFC2833 50:SIP Info 60: Close
dtmfReceiveMethod	THE	Integer	Softswitch receives calling DTMF method 0: All 10:RFC2833 20: Signaling 30: Close
dtmfSendPayloadTypeH323	THE	Integer	Dtmf is RFC2833 used in H323 protocol Payload Type used
dtmfSendPayloadTypeSIP		Integer	Dtmf is RFC2833 used in SIP protocol Payload Type
dtmfReceivePayloadType		Integer	Dtmf is RFC2833 soft switch receiving Dtmf Payload Type used by the signal
q931ProgressIndicator	THE	Integer	Q931ProgressIndicator in H323 protocol How to fill in -1: Automatic 0: Off 1:ProgressNotEndToEndISDN 2:ProgressDestinationNonISDN 3:ProgressOriginNotISDN 4:ProgressReturnedToISDN 5:ProgressServiceChange 8:ProgressInbandInformationAvailable
account	THE	String	Billing account number of the connected gateway
callFailedQ931CauseValue		String	Convert the failed termination reason to the set H323 Termination reason, the format is <original termination Reason>:<target termination reason> Original termination reason 0: Other Target termination reason 0: Not replaced Greater than 0: Please refer to H323/SIP protocol call Interpretation specification

Parameter name	Required type		Description
callFailedSipCode	THE	String	Convert the failed termination reason to the set SIP termination reason, the format is <original termination reason Reason>: <target termination reason> Original termination reason 0: Other Target termination reason 0: Not replaced Greater than 0: Please refer to H323/SIP protocol call Interpretation specification
sipRemoteRingSignal	THE	Integer	SIP remote ringback signaling 0: Automatic 1:183+SDP 2:180+SDP
sipCalleeE164Domain	THE	Integer	How to obtain the SIP called number 0: Get from the signaling header To 1: Get from the signaling header Invite 2: Get from the signaling header Diversion
sipCallerE164Domain	THE	Integer	How to obtain the SIP caller ID 0: Get from the signaling header From 1: Get it from the RemotePartId header of the signaling 2: Get it from the signaling header Display 3: From the signaling header P-Asserted-Identity Get 4: From the signaling header P-Preferred-Identity Get
h323CalleeE164Domain O		Integer	H323 How to obtain the called number 0: Obtained from the signaling CalledPartyNumber 1: Get from the signaling DestinationAddress
h323CallerE164Domain O		Integer	H323 Caller ID Acquisition Method 0: Take from the signaling CallingPartyNumber have to 1: Get from the signaling SourceAddress 2: Get from the signaling display
memo	THE	String	Remarks
sipAuthenticationMethod O		Integer	SIP call authentication method 0: Authentication based on IP address 1: Authentication based on IP address and port
h323FastStart	THE	Boolean	true: Enable H323 fast start function false: Disable H323 fast start function

Parameter name	Required type		Description
h323H245Tunneling	THE	Boolean	true: Enable H245 tunneling of H323 able false: Disable H245 tunneling of H323 Function
h323H245InSetup	THE	Boolean	true: Included in H323 Setup signaling H245 Signaling false: Not included in the H323 Setup signaling H245 Signaling
h323AutoCallProceeding O		Boolean	true: H323 protocol immediately responds to a call request Respond to CallProceeding false: H323 protocol does not immediately respond after receiving a call Respond to CallProceeding
h323CallProceedingFromS IPTrying	THE	Boolean	The calling protocol is H323 and the called protocol is SIP When the called party receives the Trying signaling Call signaling processing mode true: Convert to CallProceeding response main Call false: No signaling conversion is performed
h323AlertingFromSIP183S dp	THE	Boolean	The calling protocol is H323 and the called protocol is SIP When the called party receives 183+SDP response Caller handling method true: Convert to Alerting to respond to the caller false: Convert to CallProceeding response main Call
h323T38	THE	Boolean	true: Support T38 signaling when using H323 protocol false: Ignore T38 signaling when using H323 protocol
sipTimer	THE	Boolean	true: Support SIP Timer protocol (RFC4028) false: Disable SIP Timer protocol
sip100Rel	THE	Boolean	true:Support SIP 100rel protocol false: Disable SIP 100rel protocol
sipT38	THE	Boolean	true:Support SIP T38 protocol false: Disable SIP T38 protocol
sipPrivacySupport	THE	Boolean	True: Identify Privacy false: Ignore Privacy
groupE164Change	THE	Boolean	true: Enable the number change function false: Disable the number change function

Parameter name	Required type		Description
callerAllowLength	THE	Integer	Caller ID allowed number length mask 0: All lengths are allowed 1<<x: indicates that a number with a length of x is allowed (x Less than 32)
calleeAllowLength	THE	Integer	Number length mask allowed for the called number 0: All lengths are allowed 1<<x: indicates that a number with a length of x is allowed (x Less than 32)
callerLimitE164GroupsAllow	THE	Boolean	true: Allow callerLimitE164Groups The set number group is used as the calling number for calling false: Disable callerLimitE164Groups The set number group is used as the calling number for calling
callerLimitE164GroupsO		String	Caller ID group list (comma separated)
callLimitE164GroupsAllow	THE	Boolean	true: Allow calleeLimitE164Groups The set number group is used as the called number for calling false: Prohibited calleeLimitE164Groups The set number group is used as the called number for calling
streetLimitE164GroupsO		String	Called number group list (comma-separated)
minProfitPercentEnableO		Boolean	Whether to enable the minimum profit margin limit
minProfitPercent	THE	Integer	If the minimum profit margin limit is set to 10, it means Profit margin is 10% Value range: -10000 to 10000
maxSecondRatesEnableO		Boolean	Maximum per-second rate limit true: Enable false Close
maxSecondRates	THE	Double	The highest second rate value (if the minute rate is 0.6, This value should be set to 0.01)
firstRoutePolicy	THE	Integer	First routing strategy: 0: None 1: Connection rate 2: Minimum per-second rate
secondRoutePolicy	THE	Integer	Second routing strategy: 0: None 1: Connection rate 2: Minimum per-second rate

Parameter name	Required type		Description
h323G729SendMode	THE	Integer	H323 G729 negotiation mode 0: Automatic 1: Treat G729a and G729 as G729 coordinator. <small>business</small> 2: Treat G729a and G729 as G729a <small>business</small> 3: Use G729 or G729 as G729 and G729a Negotiation
sipG729SendMode	THE	Integer	SIP G729 negotiation mode 0: Automatic 1: Treat G729a and G729 as G729 coordinator. <small>business</small> 2: Treat G729a and G729 as G729a <small>business</small> 3: Use G729 or G729 as G729 and G729a Negotiation
sipG729Annexb	THE	Integer	G729 annexb parameter filling method 0: Automatic 1:annex=yes 2:annex=no 3: No annex 4: Transparent transmission of the peer's annex
sipG723Annexa	THE	Integer	G723 annexa parameter filling method 0: Automatic 1:annex=yes 2:annex=no 3: No annex 4: Transparent transmission of the peer's annex
h323CodecAssign	THE	Boolean	true: Limit H323 audio/video encoding to h323Codecs settings false: Softswitch auto-negotiation
h323Codecs	THE	Vector<String>	H323 Audio/Video List
sipCodecAssign	THE	Boolean	true: Limit SIP audio/video codecs to SIPCodecs settings false: Softswitch auto-negotiation
sipCodecs	THE	Vector<String>	SIP Audio/Video List
audioCodecTranscodingEnable	THE	Boolean	true: Enable encoding conversion false: Encoding conversion is not allowed

Parameter name	Required type		Description
rtplIncludeDtmfInband	THE	Boolean	true: The media contains inband DTMF false: The media does not contain in-band (inband)DTMF
rtplNeedDtmfInband	THE	Boolean	true: Inband DTMF must be used for transmission false: No additional in-band usage (inband) DTMF sending
forwardSignalRewriteE164GroupEnable	THE	Boolean	true: Enable call forwarding signaling dialing rules false: Disable call forwarding signaling dialing rules
forwardSignalRewriteE164Group	THE	String	Name of the number group used by call forwarding signaling say
softswitchName	THE	String	Softswitch Name
lrnEnable	THE	Boolean	LRN Lookup true: Enable false: Disable
lrnEatPrefixLength	THE	Integer	Ignore the length of the called number prefix when querying LRN. degree
lrnFailureAction	THE	Integer	Behavior after a query failure 0: reject the call 1: Use the original number to continue the subsequent processing
lrnInterstateBillingPrefix O		String	LRN query for different region billing prefixes
lrnUndeterminedBillingPrefix	THE	String	After LRN query, one or two numbers cannot be found. The billing prefix when the region is known
language	THE	String	The language used for the unreachable notification
mediaRecord	THE	Boolean	recording true: Enable false: Close
dynamicBlackListEnable lone	THE	Boolean	Enable dynamic blacklist in standalone mode true: Enable false: Close
calculateRouteQuality	THE	Integer	Real-time calculation of route quality 0: Default 1: On 2: Close
proportionCalleePrefixs O		ProportionCalleePrefix[]	Add routing prefix according to the proportion of called parties

ProportionCalleePrefix format

Parameter name	Required type		Description
proportion	M	int	Proportional value
addPrefix	M	String	Add a prefix

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Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

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3.12 Modify the connected gateway

Interface address/external/server/ModifyGatewayMapping

Request format

Parameter name	Required type		Description
name	M	String	Connected gateway name
password	THE	String	Registration password for the docking gateway
lockType	THE	Integer	Lock Type 0: No lock 3: Lock all
callLevel	THE	Integer	Permission Type 1: Intra-network calls 2: Local calls 4: Domestic long distance calls 5: International long distance
capacity	THE	Integer	Line Cap
priority	THE	Integer	Priority
gatewayGroups	THE	LongString	Gateway group to which it belongs (commas separate multiple groups name)
routingGatewayGroupsAllow	THE	Boolean	true: Allows the use of landing groups false: Disable the use of landing groups
routingGatewayGroups	THE	LongString	Restricted landing gateway group name, empty string list Show all
registerType	THE	Integer	Registration Type 0: Static 1: Dynamic 3: IMS Edge Devices
remotelps	THE	LongString	List of gateway IP addresses (comma separated IP addresses)
callerE164CheckEnable O		Boolean	true: Check the calling number standardization false: Do not check the calling number standardization
callerE164CheckCity	THE	Boolean	true: Allow the calling number to be a city number false: The calling number is not allowed to be a city number
callerE164CheckMobile O		Boolean	true: Allow the calling number to be a mobile number false: The calling number is not allowed to be a mobile number

Parameter name	Required type		Description
callerE164CheckOther	THE	Boolean	true: Allow the calling number to be a non-city number and Non-mobile number false: The calling number is not allowed to be a non-city number With non-mobile number
callerE164CheckEnable O		Boolean	true: Check the called number standardization false: Do not check the calling number standardization
callerE164CheckCity	THE	Boolean	true: Allow the called number to be a city number false: The called number is not allowed to be a city number
callerE164CheckMobile O		Boolean	true: Allow the called number to be a mobile number false: The called number is not allowed to be a mobile number
callerE164CheckOther	THE	Boolean	true: Allow the called number to be a non-city number Non-mobile number false: The called number is not allowed to be a non-city number With non-mobile number
customerPassword	THE	String	WEB query password
rtPForwardType	THE	Integer	Media forwarding type 0: Automatic 1: Enable 2: Close 3: Must be turned on
mediaCheckDirection	THE	Integer	Media interruption detection (only when a call is (Effective when forwarding) 0: No detection 1: Check whether there is a media message transmitted to the remote end 2: Check whether the media report from the remote end is received arts 3: Detect whether there is a two-way media report between the remote end and the local end arts
callerE164Restrict	THE	Integer	Called number restriction 0: No limit 1: The called number must exist on the platform Phone number 2: The called number must not exist on the platform Phone number

Parameter name	Required type		Description
maxCallDurationLower O		Integer	Greater than 0: the lower limit of the maximum call time -1: Use system parameter value (need to be consistent with maxCallDurationUpper remains consistent) 0: No restrictions (need to be combined with maxCallDurationUpper remains consistent)
maxCallDurationUpper O		Integer	Greater than 0: Maximum call time limit -1: Use system parameter value (need to be consistent with maxCallDurationLower remains consistent) 0: No restrictions (need to be combined with maxCallDurationLower remains consistent)
allowPhoneBilling	THE	Boolean	When the calling number matches the platform phone number, You can use the phone number account to make calls Billing
allowBindedE164Billing O		Boolean	When the calling number matches the bound number, Use the account bound to the number to bill the call
enablePhoneSetting	THE	Boolean	When the calling number matches the platform phone number, The calling party uses the configuration of the platform phone to Continue processing
denySameCityCodesAllow O		Boolean	true: Allow denySameCityCodes setting area code to make calls in the same city false: Disable denySameCityCodes setting area code to make calls in the same city
denySameCityCodes	THE	LongString	List of city area codes where the local calling function is restricted (Use commas to separate multiple area codes)
checkMobileAreaAllow O		Boolean	true: Allow calling checkMobileArea The mobile number of the city corresponding to the area code false: Disable calling checkMobileArea The mobile number of the city corresponding to the area code
checkMobileArea	THE	LongString	City area codes where mobile number calling function is restricted List (use commas to separate multiple area codes)
calloutCalleePrefixesAllow O		Boolean	true: Allow calloutCalleePrefixes settings The prefix list is used as the prefix of the called number false: Disable calloutCalleePrefixes setting The prefix list is used as the prefix of the called number
calloutCalleePrefixes	THE	LongString	Called number prefix in the called number restriction function List (comma separated)
calloutCallerPrefixesAllow O		Boolean	true: Allow calloutCallerPrefixes settings The prefix list is used as the calling number prefix false: Disable calloutCallerPrefixes setting The prefix list is used as the calling number prefix

Parameter name	Required type		Description
calloutCallerPrefixes	THE	LongString	Caller ID prefix in the caller ID restriction function List (comma separated)
rewriteRulesOutCallee	THE	LongString	Callee dialing plan
rewriteRulesOutCaller	THE	LongString	Caller dialing plan
rewriteRulesInMobileArea Allow	THE	Boolean	true: enable rewriteRulesInMobileArea The area code you set corresponds to the mobile number of the city Add area code false: Close rewriteRulesInMobileArea The area code you set corresponds to the mobile number of the city Add area code
rewriteRulesInMobileArea O		LongString	Areas where mobile numbers need to have area codes added (can be separated by commas)
timeoutCallProceeding	THE	Integer	The maximum duration allowed for a call to not ring or connect Duration (unit: seconds) -1: Use system parameter setting value 0: No limit
sipResponseAddressMethod	THE	Integer	SIP Response signaling address 0: Respond to the original request address 1: Respond to the original request IP, but use the port Use the port identified in the Via header 2: Respond to the address identified in the Via header
sipRequestAddressMethod O		Integer	SIP Request signaling address 0: Request to the original request address 1: Request to the original request IP, but the port is Use the port identified in the Contact header 2: Request to the address identified in the Contact header
dtmfSendMethodH323	THE	Integer	H323 protocol, soft switch sends DTMF Mode 0: Automatic 10:RFC2833 20:H.245 alphanumeric 30:H.245 signal 40:Q.931 keypad 60: Close
dtmfSendMethodSIP	THE	Integer	SIP protocol, soft switch sends DTMF method 0: Automatic 10:RFC2833 50:SIP Info 60: Close

Parameter name	Required type		Description
dtmfReceiveMethod	THE	Integer	Softswitch receives calling DTMF method 0: All 10:RFC2833 20: Signaling 30: Close
dtmfSendPayloadTypeH323	THE	Integer	Dtmf is RFC2833 used in H323 protocol Payload Type used
dtmfSendPayloadTypeSIP		Integer	Dtmf is RFC2833 used in SIP protocol Payload Type
dtmfReceivePayloadType		Integer	Dtmf is RFC2833 soft switch receiving Dtmf Payload Type used by the signal
q931ProgressIndicator	THE	Integer	Q931ProgressIndicator in H323 protocol How to fill in -1: Automatic 0: Off 1:ProgressNotEndToEndISDN 2:ProgressDestinationNonISDN 3:ProgressOriginNotISDN 4:ProgressReturnedToISDN 5:ProgressServiceChange 8:ProgressInbandInformationAvailable
account	THE	String	Billing account number of the connected gateway
callFailedQ931CauseValue		String	Convert the failed termination reason to the set H323 Termination reason, the format is <original termination Reason>:<target termination reason> Original termination reason 0: Other Target termination reason 0: Not replaced Greater than 0: Please refer to H323/SIP protocol call Interpretation specification
callFailedSipCode	THE	String	Convert the failed termination reason to the set SIP termination reason, the format is <original termination reason Reason>:<target termination reason> Original termination reason 0: Other Target termination reason 0: Not replaced Greater than 0: Please refer to H323/SIP protocol call Interpretation specification

Parameter name	Required type		Description
sipRemoteRingSignal	THE	Integer	SIP remote ringback signaling 0: Automatic 1:183+SDP 2:180+SDP
sipCalleeE164Domain	THE	Integer	How to obtain the SIP called number 0: Get from the signaling header To 1: Get from the signaling header Invite 2: Get from the signaling header Diversion
sipCallerE164Domain	THE	Integer	How to obtain the SIP caller ID 0: Get from the signaling header From 1: Get it from the RemotePartId header of the signaling 2: Get it from the signaling header Display 3: From the signaling header P-Asserted-Identity Get 4: From the signaling header P-Preferred-Identity Get
h323CalleeE164Domain O		Integer	H323 How to obtain the called number 0: Obtained from the signaling CalledPartyNumber 1: Get from the signaling DestinationAddress
h323CallerE164Domain O		Integer	H323 Caller ID Acquisition Method 0: Take from the signaling CallingPartyNumber have to 1: Get from the signaling SourceAddress 2: Get from the signaling display
memo	THE	String	Remarks
sipAuthenticationMethod O		Integer	SIP call authentication method 0: Authentication based on IP address 1: Authentication based on IP address and port
h323FastStart	THE	Boolean	true: Enable H323 fast start function false: Disable H323 fast start function
h323H245Tunneling	THE	Boolean	true: Enable H245 tunneling of H323 able false: Disable H245 tunneling of H323 Function
h323H245InSetup	THE	Boolean	true: Included in H323 Setup signaling H245 Signaling false: Not included in the H323 Setup signaling H245 Signaling

Parameter name	Required type		Description
h323AutoCallProceeding O		Boolean	true: H323 protocol immediately responds to a call request Respond to CallProceeding false: H323 protocol does not immediately respond after receiving a call Respond to CallProceeding
h323CallProceedingFromSIPTrying	THE	Boolean	The calling protocol is H323 and the called protocol is SIP When the called party receives the Trying signaling Call signaling processing mode true: Convert to CallProceeding response main Call false: No signaling conversion is performed
h323AlertingFromSIP183SDP	THE	Boolean	The calling protocol is H323 and the called protocol is SIP When the called party receives 183+SDP response Caller handling method true: Convert to Alerting to respond to the caller false: Convert to CallProceeding response main Call
h323T38	THE	Boolean	true: Support T38 signaling when using H323 protocol false: Ignore T38 signaling when using H323 protocol
sipTimer	THE	Boolean	true: Support SIP Timer protocol (RFC4028) false: Disable SIP Timer protocol
sip100Rel	THE	Boolean	true:Support SIP 100rel protocol false: Disable SIP 100rel protocol
sipT38	THE	Boolean	true:Support SIP T38 protocol false: Disable SIP T38 protocol
sipPrivacySupport	THE	Boolean	True: Identify Privacy false: Ignore Privacy
groupE164Change	THE	Boolean	true: Enable the number change function false: Disable the number change function
callerAllowLength	THE	Integer	Caller ID allowed number length mask 0: All lengths are allowed 1<<x: indicates that a number with a length of x is allowed (x Less than 32)
calleeAllowLength	THE	Integer	Number length mask allowed for the called number 0: All lengths are allowed 1<<x: indicates that a number with a length of x is allowed (x Less than 32)

Parameter name	Required type		Description
callerLimitE164GroupsAllow	THE	Boolean	true: Allow callerLimitE164Groups The set number group is used as the calling number for calling false: Disable callerLimitE164Groups The set number group is used as the calling number for calling
callerLimitE164Groups	THE	String	Caller ID group list (comma separated)
callLimitE164GroupsAllow	THE	Boolean	true: Allow calleeLimitE164Groups The set number group is used as the called number for calling false: Prohibited calleeLimitE164Groups The set number group is used as the called number for calling
streetLimitE164Groups O		String	Called number group list (comma-separated)
minProfitPercentEnable O		Boolean	Whether to enable the minimum profit margin limit
minProfitPercent	THE	Integer	If the minimum profit margin limit is set to 10, it means Profit margin is 10% Value range: -10000 to 10000
maxSecondRatesEnable O		Boolean	Maximum per-second rate limit true: Enable false Close
maxSecondRates	THE	Double	The highest second rate value (if the minute rate is 0.6, This value should be set to 0.01)
firstRoutePolicy	THE	Integer	First routing strategy: 0: None 1: Connection rate 2: Minimum per-second rate
secondRoutePolicy	THE	Integer	Second routing strategy: 0: None 1: Connection rate 2: Minimum per-second rate
h323G729SendMode	THE	Integer	H323 G729 negotiation mode 0: Automatic 1: Treat G729a and G729 as G729 coordinator. <small>business</small> 2: Treat G729a and G729 as G729a <small>business</small> 3: Use G729 or G729 as G729 and G729a Negotiation

Parameter name	Required type		Description
sipG729SendMode	THE	Integer	SIP G729 negotiation mode 0: Automatic 1: Treat G729a and G729 as G729 coordinator. <small>business</small> 2: Treat G729a and G729 as G729a <small>business</small> 3: Use G729 or G729 as G729 and G729a Negotiation
sipG729Annexb	THE	Integer	G729 annexb parameter filling method 0: Automatic 1:annex=yes 2:annex=no 3: No annex 4: Transparent transmission of the peer's annex
sipG723Annexa	THE	Integer	G723 annexa parameter filling method 0: Automatic 1:annex=yes 2:annex=no 3: No annex 4: Transparent transmission of the peer's annex
h323CodecAssign	THE	Boolean	true: Limit H323 audio/video encoding to h323Codecs settings false: Softswitch auto-negotiation
h323Codecs	THE	Vector<String>	H323 Audio/Video List
sipCodecAssign	THE	Boolean	true: Limit SIP audio/video codecs to SIPCodecs settings false: Softswitch auto-negotiation
sipCodecs	THE	Vector<String>	SIP Audio/Video List
audioCodecTranscodingEnable	THE	Boolean	true: Enable encoding conversion false: Encoding conversion is not allowed
rtplibIncludeDtmfInband	THE	Boolean	true: The media contains inband DTMF false: The media does not contain in-band (inband)DTMF
rtplibNeedDtmfInband	THE	Boolean	true: Inband DTMF must be used for transmission false: No additional in-band usage (inband) DTMF sending
forwardSignalRewriteE164GroupEnable	THE	Boolean	true: Enable call forwarding signaling dialing rules false: Disable call forwarding signaling dialing rules

Parameter name	Required type		Description
forwardSignalRewriteE164 Group	THE	String	Name of the number group used by call forwarding signaling say
lmEnable	THE	Boolean	LRN Lookup true: Enable false: Disable
lmEatPrefixLength	THE	Integer	Ignore the length of the called number prefix when querying LRN. <small>degree</small>
lmFailureAction	THE	Integer	Behavior after a query failure 0: reject the call 1: Use the original number to continue the subsequent processing
lmInterstateBillingPrefix O		String	LRN query for different region billing prefixes
lmUndeterminedBillingPre fix	THE	String	After LRN query, one or two numbers cannot be found. The billing prefix when the region is known
language	THE	String	The language used for the unreachable notification
mediaRecord	THE	Boolean	recording true: Enable false: Close
dynamicBlackListEnable lone	THE	Boolean	Enable dynamic blacklist in standalone mode true: Enable false: Close
calculateRouteQuality	THE	Integer	Real-time calculation of route quality 0: Default 1: On 2: Close
proportionCalleePrefixs O		ProportionCalleePrefix[]	Add routing prefix according to the proportion of called parties

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.13 Querying the Connected Gateway

Interface address/external/server/GetGatewayMapping

Request format

Parameter name	Required type		Description
names	M	String []	Gateway Name If not set, all connected gateway information will be obtained.

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoGatewayMappings	THE	InfoGatewayMapping []	Phone Information

TypeInfoGatewayMapping Format

Parameter name	Required type		Description
name	M	String	Connected gateway name
lockType	M	int	Lock Type 0: No lock 1: Lock outgoing calls 2: Lock incoming calls 3: Lock all
callLevel	M	int	Permission Type 1: Intra-network calls 2: Local calls 4: Domestic long distance calls 5: International long distance
capacity	M	int	Line Cap
priority	M	int	Priority
gatewayGroups	M	LongString	Gateway group to which it belongs (commas separate multiple groups name)
routingGatewayGroupsAllow	M	boolean	true: Allows the use of landing groups false: Disable the use of landing groups
routingGatewayGroups M		LongString	Restricted landing gateway group name, empty string list Show all

Parameter name	Required type		Description
registerType	M	int	Registration Type 0: Static 1: Dynamic 3: IMS Edge Devices
remotelps	M	LongString	List of gateway IP addresses (comma separated IP addresses)
callerE164CheckEnable M		boolean	true: Check the calling number standardization false: Do not check the calling number standardization
callerE164CheckCity	M	boolean	true: Allow the calling number to be a city number false: The calling number is not allowed to be a city number
callerE164CheckMobile M		boolean	true: Allow the calling number to be a mobile number false: The calling number is not allowed to be a mobile number
callerE164CheckOther M		boolean	true: Allow the calling number to be a non-city number and Non-mobile number false: The calling number is not allowed to be a non-city number With non-mobile number
callE164CheckEnable M		boolean	true: Check the calling number standardization false: Do not check the calling number standardization
streetE164CheckCity M		boolean	true: Allow the calling number to be a city number false: The calling number is not allowed to be a city number
calleeE164CheckMobile M		boolean	true: Allow the calling number to be a mobile number false: The calling number is not allowed to be a mobile number
silenceE164CheckOther M		boolean	true: Allow the calling number to be a non-city number and Non-mobile number false: The calling number is not allowed to be a non-city number With non-mobile number
rtpForwardType	M	int	Media forwarding type 0: Automatic 1: Enable 2: Close 3: Must be turned on

Parameter name	Required type		Description
mediaCheckDirection M		int	Media interruption detection (only when a call is (Effective when forwarding) 0: No detection 1: Check whether there is a media message transmitted to the remote end 2: Check whether the media report from the remote end is received arts 3: Detect whether there is a two-way media report between the remote end and the local end arts
calleeE164Restrict	M	int	Called number restriction 0: No limit 1: The called number must exist on the platform Phone number 2: The called number must not exist on the platform Phone number
maxCallDurationLower M		int	Greater than 0: the lower limit of the maximum call time -1: Use system parameter value (need to be consistent with maxCallDurationUpper remains consistent) 0: No restrictions (need to be combined with maxCallDurationUpper remains consistent)
maxCallDurationUpper M		int	Greater than 0: Maximum call time limit -1: Use system parameter value (need to be consistent with maxCallDurationLower remains consistent) 0: No restrictions (need to be combined with maxCallDurationLower remains consistent)
allowPhoneBilling	M	boolean	When the calling number matches the platform phone number, You can use the phone number account to make calls Billing
allowBindedE164Billing M		boolean	When the calling number matches the bound number, Use the account bound to the number to bill the call
enablePhoneSetting	M	boolean	When the calling number matches the platform phone number, The calling party uses the configuration of the platform phone to Continue processing
denySameCityCodesAllow M		boolean	true: Allow denySameCityCodes setting area code to make calls in the same city false: Disable denySameCityCodes setting area code to make calls in the same city
denySameCityCodes	M	LongString	List of city area codes where the local calling function is restricted (Use commas to separate multiple area codes)

Parameter name	Required type		Description
checkMobileAreaAllow M		boolean	<p>true: Allow calling checkMobileArea</p> <p>The mobile number of the city corresponding to the area code</p> <p>false: Disable calling checkMobileArea</p> <p>The mobile number of the city corresponding to the area code</p>
checkMobileArea	M	LongString	<p>City area codes where mobile number calling function is restricted</p> <p>List (use commas to separate multiple area codes)</p>
calloutCalleePrefixesAllow M		boolean	<p>true: Allow calloutCalleePrefixes settings</p> <p>The prefix list is used as the prefix of the called number</p> <p>false: Disable calloutCalleePrefixes setting</p> <p>The prefix list is used as the prefix of the called number</p>
calloutCalleePrefixes	M	LongString	<p>Called number prefix in the called number restriction function</p> <p>List (comma separated)</p>
calloutCallerPrefixesAllow M		boolean	<p>true: Allow calloutCallerPrefixes settings</p> <p>The prefix list is used as the calling number prefix</p> <p>false: Disable calloutCallerPrefixes setting</p> <p>The prefix list is used as the calling number prefix</p>
calloutCallerPrefixes	M	LongString	<p>Caller ID prefix in the caller ID restriction function</p> <p>List (comma separated)</p>
rewriteRulesOutCallee M		LongString	Callee dialing plan
rewriteRulesOutCaller M		LongString	Caller dialing plan
rewriteRulesInMobileArea Allow	M	boolean	<p>true: enable rewriteRulesInMobileArea</p> <p>The area code you set corresponds to the mobile number of the city</p> <p>Add area code</p> <p>false: Close rewriteRulesInMobileArea</p> <p>The area code you set corresponds to the mobile number of the city</p> <p>Add area code</p>
rewriteRulesInMobileArea M		LongString	<p>Areas where mobile numbers need to have area codes added (can be separated by commas)</p>
timeoutCallProceeding M		int	<p>The maximum duration allowed for a call to not ring or connect</p> <p>Duration (unit: seconds)</p> <p>-1: Use system parameter setting value</p> <p>0: No limit</p>
sipResponseAddressMethod	M	int	<p>SIP Response signaling address</p> <p>0: Respond to the original request address</p> <p>1: Respond to the original request IP, but use the port</p> <p>Use the port identified in the Via header</p> <p>2: Respond to the address identified in the Via header</p>

Parameter name	Required type		Description
sipRequestAddressMethod M		int	SIP Request signaling address 0: Request to the original request address 1: Request to the original request IP, but the port is Use the port identified in the Contact header 2: Request to the address identified in the Contact header
dtmfSendMethodH323 M		int	H323 protocol, soft switch sends DTMF Mode 0: Automatic 10:RFC2833 20:H.245 alphanumeric 30:H.245 signal 40:Q.931 keypad 60: Close
dtmfSendMethodSIP	M	int	SIP protocol, soft switch sends DTMF method 0: Automatic 10:RFC2833 50:SIP Info 60: Close
dtmfReceiveMethod	M	int	Softswitch receives calling DTMF method 0: All 10:RFC2833 20: Signaling 30: Close
dtmfSendPayloadTypeH323 3	M	int	Dtmf is RFC2833 used in H323 protocol Payload Type used
dtmfSendPayloadTypeSIP M		int	Dtmf is RFC2833 used in SIP protocol Payload Type
dtmfReceivePayloadType M		int	Dtmf is RFC2833 soft switch receiving Dtmf Payload Type used by the signal

Parameter name	Required type		Description
q931ProgressIndicator M		int	Q931ProgressIndicator in H323 protocol How to fill in -1: Automatic 0: Off 1:ProgressNotEndToEndISDN 2:ProgressDestinationNonISDN 3:ProgressOriginNotISDN 4:ProgressReturnedToISDN 5:ProgressServiceChange 8:ProgressInbandInformationAvailabl and
account	M	String	Billing account number of the connected gateway
accountName	M	String	The billing account name of the connected gateway
password	M	String	Registration password for the docking gateway
customerPassword	M	String	Gateway web query password
callFailedQ931CauseValue M		String	Convert the failed termination reason to the set H323 Termination reason, the format is <original termination Reason>:<target termination reason> Original termination reason 0: Other Target termination reason 0: Not replaced Greater than 0: Please refer to H323/SIP protocol call Interpretation specification
callFailedSipCode	M	String	Convert the failed termination reason to the set SIP termination reason, the format is <original termination reason Reason>: <target termination reason> Original termination reason 0: Other Target termination reason 0: Not replaced Greater than 0: Please refer to H323/SIP protocol call Interpretation specification
sipRemoteRingSignal M		int	SIP remote ringback signaling 0: Automatic 1:183+SDP 2:180+SDP
sipCalleeE164Domain M		int	How to obtain the SIP called number 0: Get from the signaling header To 1: Get from the signaling header Invite 2: Get from the signaling header Diversion

Parameter name	Required type		Description
sipCallerE164Domain M		int	How to obtain the SIP caller ID 0: Get from the signaling header From 1: Get it from the RemotePartId header of the signaling 2: Get it from the signaling header Display 3: From the signaling header P-Asserted-Identity Get 4: From the signaling header P-Preferred-Identity Get
h323CalleeE164Domain M		int	H323 How to obtain the called number 0: Obtained from the signaling CalledPartyNumber 1: Get from the signaling DestinationAddress
h323CallerE164Domain M		int	H323 Caller ID Acquisition Method 0: Take from the signaling CallingPartyNumber have to 1: Get from the signaling SourceAddress 2: Get from the signaling display
memo	M	String	Remarks
sipAuthenticationMethod M		int	SIP call authentication method 0: Authentication based on IP address 1: Authentication based on IP address and port
h323FastStart	M	boolean	true: Enable H323 fast start function false: Disable H323 fast start function
h323H245Tunneling	M	boolean	true: Enable H245 tunneling of H323 able false: Disable H245 tunneling of H323 Function
h323H245InSetup	M	boolean	true: Included in H323 Setup signaling H245 Signaling false: Not included in the H323 Setup signaling H245 Signaling
h323AutoCallProceeding M		boolean	true: H323 protocol immediately responds to a call request Respond to CallProceeding false: H323 protocol does not immediately respond after receiving a call Respond to CallProceeding

Parameter name	Required type		Description
h323CallProceedingFromSIPTrying	M	boolean	The calling protocol is H323 and the called protocol is SIP When the called party receives the Trying signaling Call signaling processing mode true: Convert to CallProceeding response main Call false: No signaling conversion is performed
h323AlertingFromSIP183SDP	M	boolean	The calling protocol is H323 and the called protocol is SIP When the called party receives 183+SDP response Caller handling method true: Convert to Alerting to respond to the caller false: Convert to CallProceeding response main Call
h323T38	M	boolean	true: Support T38 signaling when using H323 protocol false: Ignore T38 signaling when using H323 protocol
sipTimer	M	boolean	true: Support SIP Timer protocol (RFC4028) false: Disable SIP Timer protocol
sip100Rel	M	boolean	true: Support SIP 100rel protocol false: Disable SIP 100rel protocol
sipT38	M	boolean	true: Support SIP T38 protocol false: Disable SIP T38 protocol
sipPrivacySupport	THE	Boolean	True: Identify Privacy false: Ignore Privacy
groupE164Change	M	boolean	true: Enable the number change function false: Disable the number change function
callerAllowLength	M	int	The allowed length of the calling number
calleeAllowLength	M	int	The allowed length of the called number
callerLimitE164GroupsAllow	M	boolean	true: Allow callerLimitE164Groups The set number group is used as the calling number for calling false: Disable callerLimitE164Groups The set number group is used as the calling number for calling
callerLimitE164Groups M		String	Caller ID group list (comma separated)
callLimitE164GroupsAllow	M	boolean	true: Allow calleeLimitE164Groups The set number group is used as the called number for calling false: Prohibited calleeLimitE164Groups The set number group is used as the called number for calling
callLimitE164Groups M		String	Called number group list (comma-separated)
minProfitPercentEnable M		boolean	Whether to enable the minimum profit margin limit

Parameter name	Required type		Description
minProfitPercent	M	int	If the minimum profit margin limit is set to 10, it means Profit margin is 10% Value range: -10000 to 10000
maxSecondRatesEnable M		boolean	Maximum per-second rate limit true: Enable false Close
maxSecondRates	M	double	Maximum second rate value
firstRoutePolicy	M	int	First routing strategy: 0: None 1: Connection rate 2: Minimum per-second rate
secondRoutePolicy	M	int	Second routing strategy: 0: None 1: Connection rate 2: Minimum per-second rate
h323G729SendMode	M	int	H323 G729 negotiation mode 0: Automatic 1: Treat G729a and G729 as G729 coordinator. <small>business</small> 2: Treat G729a and G729 as G729a <small>business</small> 3: Use G729 or G729 as G729 and G729a Negotiation
sipG729SendMode	M	int	SIP G729 negotiation mode 0: Automatic 1: Treat G729a and G729 as G729 coordinator. <small>business</small> 2: Treat G729a and G729 as G729a <small>business</small> 3: Use G729 or G729 as G729 and G729a Negotiation
sipG729Annexb	M	int	G729 annexb parameter filling method 0: Automatic 1:annex=yes 2:annex=no 3: No annex 4: Transparent transmission of the peer's annex

Parameter name	Required type		Description
sipG723Annexa	M	int	G723 annexa parameter filling method 0: Automatic 1:annex=yes 2:annex=no 3: No annex 4: Transparent transmission of the peer's annex
h323CodecAssign	M	boolean	true: Limit H323 audio/video encoding to h323Codecs settings false: Softswitch auto-negotiation
h323Codecs	M	Vector<String>	H323 Audio/Video List
sipCodecAssign	M	boolean	true: Limit SIP audio/video codecs to SIPCodecs settings false: Softswitch auto-negotiation
sipCodecs	M	Vector<String>	SIP Audio/Video List
audioCodecTranscodingEnable	M	boolean	true: Enable encoding conversion false: Encoding conversion is not allowed
rtplIncludeDtmfInband	M	boolean	true: The media contains inband DTMF false: The media does not contain in-band (inband)DTMF
rtplNeedDtmfInband	M	boolean	true: Inband DTMF must be used for transmission false: No additional in-band usage (inband) DTMF sending
softswitchName	M	String	Softswitch Name Not set: does not belong to any soft switch Empty string: indicates that it belongs to all soft switches
forwardSignalRewriteE164GroupEnable	M	boolean	true: Enable call forwarding signaling dialing rules false: Disable call forwarding signaling dialing rules
forwardSignalRewriteE164Group	M	String	Name of the number group used by call forwarding signaling say
lrnEnable	M	boolean	LRN Lookup true: Enable false: Disable
lrnEatPrefixLength	M	int	Ignore the length of the called number prefix when querying LRN. degree
lrnFailureAction	M	int	Behavior after a query failure 0: reject the call 1: Use the original number to continue the subsequent processing

Parameter name	Required type		Description
InInterstateBillingPrefix M		String	LRN query for different region billing prefixes
InUndeterminedBillingPrefix	M	String	After LRN query, one or two numbers cannot be found. The billing prefix when the region is known
language	M	String	The language used for the unreachable notification
mediaRecord	THE	Boolean	recording true: Enable false: Close
dynamicBlackListEnable lone	THE	Boolean	Enable dynamic blacklist in standalone mode true: Enable false: Close
calculateRouteQuality	THE	Integer	Real-time calculation of route quality 0: Default 1: On 2: Close
proportionCalleePrefixes O		ProportionCalleePrefix[]	Add routing prefix according to the proportion of called parties

3.14 Deleting a connected gateway

Interface address/external/server/DeleteGatewayMapping

Request format

Parameter name	Required type		Description
name	M	String	Connected gateway name

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

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3.15 Query online connection gateway

Interface address/external/server/GetGatewayMappingOnline

Request format

Parameter name	Required type		Description
names	THE	String []	Connected gateway name Not set: Indicates that this filter condition is invalid
softswitchName	THE	String	Softswitch Name Not set: Indicates that this filter condition is invalid. All soft switches

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoGatewayMappingOnline is	THE	InfoGatewayMappingOnline is []	Package order list

TypeInfoGatewayMappingOnline Format

Parameter name	Required type		Description
id	M	int	Connecting gateway ID
name	M	String	Connected gateway name
currentCall	M	int	Total current calls
capacity	M	int	Call line limit
asr	M	double	Call answer rate
acd	M	long	Average call duration (unit: seconds)
remotelps	M	String	Remote IP address (comma separated multiple IP addresses)
natlp	THE	String	NAT internal address, only between gateway and softswitch Valid when there is an address translation device
locallp	M	String	Registering a local address
registerTime	M	long	Registration time (UTC 1970-01-01 to present) milliseconds) 0: Static gateway

Parameter name	Required type		Description
updateTime	M	long	Last updated (UTC 1970-01-01 to Today's milliseconds) 0: Static gateway
keepTime	M	long	Online time (unit: seconds) 0: Static gateway
cryptoType	M	int	Encryption type 0: Not encrypted 1:RC4
softswitchName	M	String	Softswitch Name
softswitchIp	M	String	Softswitch IP

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3.16 Creating a Landing Gateway

Interface address/external/server/CreateGatewayRouting

Request format

Parameter name	Required type		Description
name	M	String	Landing gateway name
prefix	THE	String	Landing gateway prefix (comma-separated)
prefixStyle	THE	Integer	Prefix matching method 0: Termination mode 1: Continuation mode
password	THE	String	Landing gateway registration password
customerPassword	THE	String	Landing gateway web query password
gatewayGroups	THE	String	Gateway group to which it belongs (commas separate multiple groups name)
capacity	THE	Integer	Line Cap
lockType	THE	Integer	Lock Type 0: No lock 3: Lock all
priority	THE	Integer	Priority
registerType	THE	Integer	Registration Type 0: Static 1: Dynamic 2: Register (register on other platforms) 3: IMS Edge Devices
remotelp	THE	String	Remote address of the landing gateway
rtppForwardType	THE	Integer	Media forwarding type 0: Automatic 1: Enable 2: Close 3: Must be turned on
encrypt	THE	Boolean	true: encryption false: No encryption
protocol	THE	Integer	Signaling Protocol 0:H323 1:SIP

Parameter name	Required type		Description
signalPort	THE	Integer	Signaling port
localIp	THE	String	Local Address Empty: means the system selects the local address by itself
mediaCheckDirection	THE	Integer	Media interruption detection (only when a call is (Effective when forwarding) 0: No detection 1: Check whether there is a media message transmitted to the remote end 2: Check whether the media report from the remote end is received arts 3: Detect whether there is a two-way media report between the remote end and the local end arts
maxCallDurationLower O		Integer	Greater than 0: the lower limit of the maximum call time -1: Use system parameter value (need to be consistent with maxCallDurationUpper remains consistent) 0: No restrictions (need to be combined with maxCallDurationUpper remains consistent)
maxCallDurationUpper O		Integer	Greater than 0: Maximum call time limit -1: Use system parameter value (need to be consistent with maxCallDurationLower remains consistent) 0: No restrictions (need to be combined with maxCallDurationLower remains consistent)
calleeE164Restrict	THE	Integer	Called number restriction 0: No limit 1: The called number must exist on the platform Phone number 2: The called number must not exist on the platform Phone number
callerE164CheckEnable O		Boolean	true: Check the calling number standardization false: Do not check the calling number standardization
callerE164CheckCity	THE	Boolean	true: Allow the calling number to be a city number false: The calling number is not allowed to be a city number
callerE164CheckMobile O		Boolean	true: Allow the calling number to be a mobile number false: The calling number is not allowed to be a mobile number
callerE164CheckOther	THE	Boolean	true: Allow the calling number to be a non-city number and Non-mobile number false: The calling number is not allowed to be a non-city number With non-mobile number

Parameter name	Required type		Description
callE164CheckEnable O		Boolean	true: Check the called number standardization false: Do not check the called number standardization
calleeE164CheckCity	THE	Boolean	true: Allow the number to be a city number false: The called number is not allowed to be a city number
calleeE164CheckMobile O		Boolean	true: Allow the called number to be a mobile number false: The called number is not allowed to be a mobile number
calleeE164CheckOther	THE	Boolean	true: Allow the called number to be a non-city number Non-mobile number false: Do not allow the called number to be a non-city number With non-mobile number
callinCallerPrefixesAllow O		Boolean	true: Allow callinCallerPrefixes to be set Prefix list as calling number prefix false: Disable callinCallerPrefixes setting The prefix list is used as the calling number prefix
callinCallerPrefixes	THE	LongString	Caller ID prefix in the caller ID restriction function List (comma separated)
callinCalleePrefixesAllow O		Boolean	true: Allow callinCalleePrefixes settings Prefix list as the called number prefix false: Disable callinCalleePrefixes setting The prefix list is used as the prefix of the called number
callinCalleePrefixes	THE	LongString	Called number prefix in the called number restriction function List (comma separated)
callinForwardPrefixesAllow In	THE	Boolean	true: Allow callinForwardPrefixes setting The prefix list is used as the forwarding number prefix false: Disable callinForwardPrefixes The configured prefix list is used as the forwarding number prefix
callinForwardPrefixes	THE	LongString	Forwarding number prefix in the forwarding number restriction function List (comma separated)
rewriteRulesInCaller	THE	LongString	Caller dialing plan
rewriteRulesInCallee	THE	LongString	Callee dialing plan
rewriteRulesInMobileArea Allow	THE	Boolean	true: enable rewriteRulesInMobileArea The area code you set corresponds to the mobile number of the city Add area code false: Close rewriteRulesInMobileArea The area code you set corresponds to the mobile number of the city Add area code
rewriteRulesInMobileArea O		LongString	Areas where mobile numbers need to have area codes added (can be separated by commas)

Parameter name	Required type		Description
timeoutSetup	THE	Integer	H323 Setup timeout (unit: seconds) 0: Indicates using the system parameter setting value
timeoutCallProceeding	THE	Integer	H323 CallProceeding timeout (single bit:second) 0: Indicates using the system parameter setting value
timeoutCallProceedingOlc O		Integer	H323 CallProceeding includes Open Logical Channel timeout (unit: seconds) 0: Indicates using the system parameter setting value
timeoutAlerting	THE	Integer	H323 Alerting timeout (unit: seconds) 0: Indicates using the system parameter setting value
timeoutInvite	THE	Integer	SIP Invite timeout (unit: seconds) 0: Indicates using the system parameter setting value
timeoutTrying	THE	Integer	SIP Trying timeout (unit: seconds) 0: Indicates using the system parameter setting value
timeoutSessionProgressSd p	THE	Integer	SIP SessionProgress with SDP timeout Time (unit: seconds) 0: Indicates using the system parameter setting value
timeoutSessionProgress O		Integer	SIP SessionProgress timeout (unit: Second) 0: Indicates using the system parameter setting value
timeoutRinging	THE	Integer	SIP Ring timeout (unit: seconds) 0: Indicates using the system parameter setting value
denyCallerCalleeAllow	THE	Boolean	true: Allows the denyCallerCallee setting Make a call to the called party false: Disable denyCallerCallee setting The calling party calls the called party
denyCallerCallee	THE	LongString	Restriction list for the calling party to make calls to the corresponding called party The table format is [<calling number>:<called number> code>[,<calling number>:<called number>]...] For example: 025:010,021:023
denySameCityCodesAllow O		Boolean	true: Allow denySameCityCodes setting area code to make calls in the same city false: Disable denySameCityCodes setting area code to make calls in the same city
denySameCityCodes	THE	LongString	List of city area codes where the local calling function is restricted (Use commas to separate multiple area codes)

Parameter name	Required type		Description
checkMobileAreaAllow O		Boolean	<p>true: Allow calling checkMobileArea</p> <p>The mobile number of the city corresponding to the area code</p> <p>false: Disable calling checkMobileArea</p> <p>The mobile number of the city corresponding to the area code</p>
checkMobileArea	THE	LongString	<p>City area codes where mobile number calling function is restricted</p> <p>List (use commas to separate multiple area codes)</p>
switchAllowRing	THE	Boolean	<p>Gateway switches after receiving ring signal 18x</p> <p>Mode</p> <p>false: Prohibited</p> <p>true: allow</p>
switchAllowSdp	THE	Boolean	<p>When the SIP protocol is used, when the signaling contains Sdp</p> <p>Subsequent processing methods</p> <p>false: Prohibited</p> <p>true: allow</p>
switchAllowRtp	THE	Boolean	<p>When receiving media from the remote end during media forwarding</p> <p>Subsequent processing method for body message</p> <p>false: Prohibited</p> <p>true: allow</p>
switchAllowBusy	THE	Boolean	<p>Subsequent processing method when receiving a call busy</p> <p>false: Prohibited</p> <p>true: allow</p>
switchAllowErrorCode	THE	Boolean	<p>Receive error code in the list, then switch gateway</p> <p>Way</p> <p>false: Prohibited</p> <p>true: allow</p>
sipResponseAddressMethod	THE	Integer	<p>SIP Response signaling address</p> <p>0: Respond to the original request address</p> <p>1: Respond to the original request IP, but use the port</p> <p>Use the port identified in the Via header</p> <p>2: Respond to the address identified in the Via header</p>
sipRequestAddressMethod O		Integer	<p>SIP Request signaling address</p> <p>0: Request to the original request address</p> <p>1: Request to the original request IP, but the port is</p> <p>Use the port identified in the Contact header</p> <p>2: Request to the address identified in the Contact header</p>

Parameter name	Required type		Description
dtmfSendMethodH323	THE	Integer	H323 protocol, soft switch sends DTMF Mode 0: Automatic 10:RFC2833 20:H.245 alphanumeric 30:H.245 signal 40:Q.931 keypad 60: Close
dtmfSendMethodSIP	THE	Integer	SIP protocol, soft switch sends DTMF method 0: Automatic 10:RFC2833 50:SIP Info 60: Close
dtmfReceiveMethod	THE	Integer	Softswitch receives calling DTMF method 0: All 10:RFC2833 20: Signaling 30: Close
dtmfSendPayloadTypeH323	THE	Integer	Dtmf is RFC2833 used in H323 protocol Payload Type used
dtmfSendPayloadTypeSIP		Integer	Dtmf is RFC2833 used in SIP protocol Payload Type
dtmfReceivePayloadType		Integer	Dtmf is RFC2833 soft switch receiving Dtmf Payload Type used by the signal
q931NumberingPlan	THE	Integer	Q931NumberingPlan -1: Default, use system parameter settings 0:UnknownPlan 1:ISDNPlan 3:DataPlan 4:TelexPlan 8:NationalStandardPlan 9:PrivatePlan 15:ReservedPlan

Parameter name	Required type		Description
q931NumberType	THE	Integer	Q931NumberType -1: Default, use system parameter settings 0:UnknownType 1:InternationalType 2:NationalType 3:NetworkSpecificType 4:SubscriberType 6:AbbreviatedType 7:ReservedType
q931PresentationIndicator O		Integer	Q931PresentationIndicator -1: Default, use system parameter settings 0:Presentation allowed 1:Presentation restricted 2:Number not available due to interworking 3:Reserved 4: None
q931ScreeningIndicator O		Integer	Q931ScreeningIndicator -1: Default, use system parameter settings 0:User-providedÿnot screened 1:User-providedÿverified and passed 2:User-providedÿverified and failed 3:Network provided 4: None
clearingAccount	THE	String	Settlement Account Name
h323FastStart	THE	Boolean	true: Enable H323 fast start function false: Disable H323 fast start function
h323H245Tunneling	THE	Boolean	true: Enable H245 tunneling of H323 able false: Disable H245 tunneling of H323 Function
h323H245InSetup	THE	Boolean	true: Included in H323 Setup signaling H245 Signaling false: Not included in the H323 Setup signaling H245 Signaling
h323T38	THE	Boolean	true: Support T38 signaling when using H323 protocol false: Ignore T38 signaling when using H323 protocol
sipTimer	THE	Boolean	true: Support SIP Timer protocol (RFC4028) false: Disable SIP Timer protocol

Parameter name	Required type		Description
sip100Rel	THE	Boolean	true:Support SIP 100rel protocol false: Disable SIP 100rel protocol
sipT38	THE	Boolean	true:Support SIP T38 protocol false: Disable SIP T38 protocol
sipDisplay	THE	Boolean	true: Included when sending signaling to the remote end Display header false: Sending a message to the remote end The Display header is not included.
sipRemotePartyId	THE	Boolean	true: Included when sending signaling to the remote end RemotePartyId header false: does not include the signaling information when sending it to the remote end. RemotePartyId header
sipPrivacy	THE	Integer	0: None 1: Transparent transmission 2:id 3:none
sipPPreferredIdentity	THE	Integer	0: None 1: Transparent transmission 2: Caller ID
sipPAssertedIdentity	THE	Integer	0: None 1: Transparent transmission 2: Caller ID
groupE164Change	THE	Boolean	true: Enable the number change function false: Disable the number change function
callerAllowLength	THE	Integer	Caller ID allowed number length mask 0: All lengths are allowed 1<<x: indicates that a number with a length of x is allowed (x Less than 32)
calleeAllowLength	THE	Integer	Number length mask allowed for the called number 0: All lengths are allowed 1<<x: indicates that a number with a length of x is allowed (x Less than 32)
callerLimitE164GroupsAllow	THE	Boolean	true: Allow callerLimitE164Groups The set number group is used as the calling number for calling false: Disable callerLimitE164Groups The set number group is used as the calling number for calling
callerLimitE164Groups O		String	Caller ID group list (comma separated)

Parameter name	Required type		Description
callLimitE164GroupsAllow	THE	Boolean	<p>true: Allow calleeLimitE164Groups</p> <p>The set number group is used as the called number for calling</p> <p>false: Prohibited calleeLimitE164Groups</p> <p>The set number group is used as the called number for calling</p>
streetLimitE164Groups O		String	Called number group list (comma-separated)
h323G729SendMode	THE	Integer	<p>H323 G729 negotiation mode</p> <p>0: Automatic</p> <p>1: Treat G729a and G729 as G729 coordinator.</p> <p><small>business</small></p> <p>2: Treat G729a and G729 as G729a</p> <p><small>business</small></p> <p>3: Use G729 or G729 as G729 and G729a Negotiation</p>
sipG729SendMode	THE	Integer	<p>SIP G729 negotiation mode</p> <p>0: Automatic</p> <p>1: Treat G729a and G729 as G729 coordinator.</p> <p><small>business</small></p> <p>2: Treat G729a and G729 as G729a</p> <p><small>business</small></p> <p>3: Use G729 or G729 as G729 and G729a Negotiation</p>
sipG729Annexb	THE	Integer	<p>G729 annexb parameter filling method</p> <p>0: Automatic</p> <p>1:annex=yes</p> <p>2:annex=no</p> <p>3: No annex</p> <p>4: Transparent transmission of the peer's annex</p>
sipG723Annexa	THE	Integer	<p>G723 annexa parameter filling method</p> <p>0: Automatic</p> <p>1:annex=yes</p> <p>2:annex=no</p> <p>3: No annex</p> <p>4: Transparent transmission of the peer's annex</p>
h323CodecAssign	THE	Boolean	<p>true: Limit H323 audio/video encoding to h323Codecs settings</p> <p>false: Softswitch auto-negotiation</p>
h323Codecs	THE	Vector<String>	H323 Audio/Video List

Parameter name	Required type		Description
sipCodecAssign	THE	Boolean	true: Limit SIP audio/video codecs to SIPCodecs settings false: Softswitch auto-negotiation
sipCodecs	THE	Vector<String>	SIP Audio/Video List
audioCodecTranscodingEnable	THE	Boolean	true: Enable encoding conversion false: Encoding conversion is not allowed
rtpIncludeDtmfInband	THE	Boolean	true: The media contains inband DTMF false: The media does not contain in-band (inband)DTMF
rtpNeedDtmfInband	THE	Boolean	true: Inband DTMF must be used for transmission false: No additional in-band usage (inband) DTMF sending
feerateRestrict	THE	Boolean	true: Check the called number rate false: Do not verify the rate
leastCostRouting	THE	Boolean	Lowest second rate sort (in feerateRestrict is true) true: Enable false: Close
minProfitPercentEnable O		Boolean	Valid when feerateRestrict is true Whether to enable the minimum profit margin limit
minProfitPercent	THE	Integer	If the minimum profit margin limit is set to 10, it means Profit margin is 10% Value range: -10000 to 10000
maxSecondRatesEnable O		Boolean	Maximum per-second rate limit true: Enable false Close
maxSecondRates	THE	Double	The highest second rate value (if the minute rate is 0.6, This value should be set to 0.01)
enablePhoneDisplay	THE	Boolean	true: Use the phone's outgoing call function when the caller is a phone Display as calling number false: Use the phone number when the caller is a phone Display as calling number
clearingAccountUseCalloutE164	THE	Boolean	true: Use the called number after dialing rules as Billing the called party for the settlement account false: Use the called number before the dial plan Billing the called party for the settlement account
softswitchName	THE	String	Softswitch Name

Parameter name	Required type		Description
forwardSignalRewriteE164 GroupEnable	THE	Boolean	true: Enable call forwarding signaling dialing rules false: Disable call forwarding signaling dialing rules
forwardSignalRewriteE164 Group	THE	String	Name of the number group used by call forwarding signaling say
memo	THE	String	Remark
dynamicBlackListEnable lone	THE	Boolean	Enable dynamic blacklist in standalone mode true: Enable false: Close
mediaRecord	THE	Boolean	recording true: Enable false: Close
externalNumberVerifyBits O		Long	Intelligent blacklist, this parameter is bit controlled Each bit indicates that a certain function is enabled. 1<<0: Enable smart blacklist 1<<1: Insurance Marketing 1<<2: Stock Recommendations 1<<3: New real estate 1<<4: Education and Training 1<<5: M0/M1 collection 1<<6: Real estate agency 1<<7: Questionnaire 1<<8: Car insurance follow-up 1<<9: Customer Service Notice 1<<10: Financial Marketing 1<<11: Voice verification code
externalNumberVerifyRew riteCaller	THE	String	Intelligent blacklist caller dialing plan
externalNumberVerifyRew riteCallee	THE	String	Intelligent blacklist called dialing plan
scheduledCallinPrefixes O		InfoScheduledCallinPrefix is []	Time period call restriction
rewriteRulesInCallerUseE1 64GroupEnable	THE	Boolean	Caller ID pool false: Disable true: Enable
rewriteRulesInCallerUseE1 64Group	THE	String	Caller ID pool Number group name
rewriteRulesInCallerUseE1 64Line	THE	Integer	Number of reuses of calling number pool numbers

Parameter name	Required type		Description
signalPortLocal	THE	Integer	Signaling local port
calculateRouteQuality	THE	Integer	Real-time calculation of route quality 0: Default 1: On 2: Close

InfoScheduledCallinPrefixes format

Parameter name	Required type		Description
days	M	int []	Day of the week 0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday
beginTime	M	int	First second of the day Value range (0~86400)
endTime	M	int	End second of the day Value range (0~86400)
action	M	int	operate 0: Disable 1: Allow
type	M	int	Way 0: Calling 1: called
prefixes	M	String []	Prefix List

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.17 Modify the landing gateway

Interface address/external/server/ModifyGatewayRouting

Request format

Parameter name	Required type		Description
name	M	String	Landing gateway name
prefix	THE	String	Landing gateway prefix (comma-separated)
prefixStyle	THE	Integer	Prefix matching method 0: Termination mode 1: Continuation mode
password	THE	String	Landing gateway registration password
customerPassword	THE	String	Landing gateway web query password
gatewayGroups	THE	String	Gateway group to which it belongs (commas separate multiple groups name)
capacity	THE	Integer	Line Cap
lockType	THE	Integer	Lock Type 0: No lock 3: Lock all
priority	THE	Integer	Priority
registerType	THE	Integer	Registration Type 0: Static 1: Dynamic 2: Register (register on other platforms) 3: IMS Edge Devices
remotelp	THE	String	Remote address of the landing gateway
rtppForwardType	THE	Integer	Media forwarding type 0: Automatic 1: Enable 2: Close 3: Must be turned on
encrypt	THE	Boolean	true: encryption false: No encryption
protocol	THE	Integer	Signaling Protocol 0:H323 1:SIP

Parameter name	Required type		Description
signalPort	THE	Integer	Signaling port
localIp	THE	String	Local Address Empty: means the system selects the local address by itself
mediaCheckDirection	THE	Integer	Media interruption detection (only when a call is (Effective when forwarding) 0: No detection 1: Check whether there is a media message transmitted to the remote end 2: Check whether the media report from the remote end is received arts 3: Detect whether there is a two-way media report between the remote end and the local end arts
maxCallDurationLower O		Integer	Greater than 0: the lower limit of the maximum call time -1: Use system parameter value (need to be consistent with maxCallDurationUpper remains consistent) 0: No restrictions (need to be combined with maxCallDurationUpper remains consistent)
maxCallDurationUpper O		Integer	Greater than 0: Maximum call time limit -1: Use system parameter value (need to be consistent with maxCallDurationLower remains consistent) 0: No restrictions (need to be combined with maxCallDurationLower remains consistent)
calleeE164Restrict	THE	Integer	Called number restriction 0: No limit 1: The called number must exist on the platform Phone number 2: The called number must not exist on the platform Phone number
callerE164CheckEnable O		Boolean	true: Check the calling number standardization false: Do not check the calling number standardization
callerE164CheckCity	THE	Boolean	true: Allow the calling number to be a city number false: The calling number is not allowed to be a city number
callerE164CheckMobile O		Boolean	true: Allow the calling number to be a mobile number false: The calling number is not allowed to be a mobile number
callerE164CheckOther	THE	Boolean	true: Allow the calling number to be a non-city number and Non-mobile number false: The calling number is not allowed to be a non-city number With non-mobile number

Parameter name	Required type		Description
callE164CheckEnable O		Boolean	true: Check the called number standardization false: Do not check the called number standardization
calleeE164CheckCity	THE	Boolean	true: Allow the number to be a city number false: The called number is not allowed to be a city number
calleeE164CheckMobile O		Boolean	true: Allow the called number to be a mobile number false: The called number is not allowed to be a mobile number
calleeE164CheckOther	THE	Boolean	true: Allow the called number to be a non-city number Non-mobile number false: Do not allow the called number to be a non-city number With non-mobile number
callinCallerPrefixesAllow O		Boolean	true: Allow callinCallerPrefixes to be set Prefix list as calling number prefix false: Disable callinCallerPrefixes setting The prefix list is used as the calling number prefix
callinCallerPrefixes	THE	LongString	Caller ID prefix in the caller ID restriction function List (comma separated)
callinCalleePrefixesAllow O		Boolean	true: Allow callinCalleePrefixes settings Prefix list as the called number prefix false: Disable callinCalleePrefixes setting The prefix list is used as the prefix of the called number
callinCalleePrefixes	THE	LongString	Called number prefix in the called number restriction function List (comma separated)
callinForwardPrefixesAllow In	THE	Boolean	true: Allow callinForwardPrefixes setting The prefix list is used as the forwarding number prefix false: Disable callinForwardPrefixes The configured prefix list is used as the forwarding number prefix
callinForwardPrefixes	THE	LongString	Forwarding number prefix in the forwarding number restriction function List (comma separated)
rewriteRulesInCaller	THE	LongString	Caller dialing plan
rewriteRulesInCallee	THE	LongString	Callee dialing plan
rewriteRulesInMobileArea Allow	THE	Boolean	true: enable rewriteRulesInMobileArea The area code you set corresponds to the mobile number of the city Add area code false: Close rewriteRulesInMobileArea The area code you set corresponds to the mobile number of the city Add area code
rewriteRulesInMobileArea O		LongString	Areas where mobile numbers need to have area codes added (can be separated by commas)

Parameter name	Required type		Description
timeoutSetup	THE	Integer	H323 Setup timeout (unit: seconds) 0: Indicates using the system parameter setting value
timeoutCallProceeding	THE	Integer	H323 CallProceeding timeout (single bit:second) 0: Indicates using the system parameter setting value
timeoutCallProceedingOlc O		Integer	H323 CallProceeding includes Open Logical Channel timeout (unit: seconds) 0: Indicates using the system parameter setting value
timeoutAlerting	THE	Integer	H323 Alerting timeout (unit: seconds) 0: Indicates using the system parameter setting value
timeoutInvite	THE	Integer	SIP Invite timeout (unit: seconds) 0: Indicates using the system parameter setting value
timeoutTrying	THE	Integer	SIP Trying timeout (unit: seconds) 0: Indicates using the system parameter setting value
timeoutSessionProgressSd p	THE	Integer	SIP SessionProgress with SDP timeout Time (unit: seconds) 0: Indicates using the system parameter setting value
timeoutSessionProgress O		Integer	SIP SessionProgress timeout (unit: Second) 0: Indicates using the system parameter setting value
timeoutRinging	THE	Integer	SIP Ring timeout (unit: seconds) 0: Indicates using the system parameter setting value
denyCallerCalleeAllow	THE	Boolean	true: Allows the denyCallerCallee setting Make a call to the called party false: Disable denyCallerCallee setting The calling party calls the called party
denyCallerCallee	THE	LongString	Restriction list for the calling party to make calls to the corresponding called party The table format is [<calling number>:<called number> code>[,<calling number>:<called number>]...] For example: 025:010,021:023
denySameCityCodesAllow O		Boolean	true: Allow denySameCityCodes setting area code to make calls in the same city false: Disable denySameCityCodes setting area code to make calls in the same city
denySameCityCodes	THE	LongString	List of city area codes where the local calling function is restricted (Use commas to separate multiple area codes)

Parameter name	Required type		Description
checkMobileAreaAllow O		Boolean	true: Allow calling checkMobileArea The mobile number of the city corresponding to the area code false: Disable calling checkMobileArea The mobile number of the city corresponding to the area code
checkMobileArea	THE	LongString	City area codes where mobile number calling function is restricted List (use commas to separate multiple area codes)
switchAllowRing	THE	Boolean	Gateway switches after receiving ring signal 18x Mode false: Prohibited true: allow
switchAllowSdp	THE	Boolean	When the SIP protocol is used, when the signaling contains Sdp Subsequent processing methods false: Prohibited true: allow
switchAllowRtp	THE	Boolean	When receiving media from the remote end during media forwarding Subsequent processing method for body message false: Prohibited true: allow
switchAllowBusy	THE	Boolean	Subsequent processing method when receiving a call busy false: Prohibited true: allow
switchAllowErrorCode	THE	Boolean	Receive error code in the list, then switch gateway Way false: Prohibited true: allow
sipResponseAddressMethod	THE	Integer	SIP Response signaling address 0: Respond to the original request address 1: Respond to the original request IP, but use the port Use the port identified in the Via header 2: Respond to the address identified in the Via header
sipRequestAddressMethod O		Integer	SIP Request signaling address 0: Request to the original request address 1: Request to the original request IP, but the port is Use the port identified in the Contact header 2: Request to the address identified in the Contact header

Parameter name	Required type		Description
dtmfSendMethodH323	THE	Integer	H323 protocol, soft switch sends DTMF Mode 0: Automatic 10:RFC2833 20:H.245 alphanumeric 30:H.245 signal 40:Q.931 keypad 60: Close
dtmfSendMethodSIP	THE	Integer	SIP protocol, soft switch sends DTMF method 0: Automatic 10:RFC2833 50:SIP Info 60: Close
dtmfReceiveMethod	THE	Integer	Softswitch receives calling DTMF method 0: All 10:RFC2833 20: Signaling 30: Close
dtmfSendPayloadTypeH323	THE	Integer	Dtmf is RFC2833 used in H323 protocol Payload Type used
dtmfSendPayloadTypeSIP		Integer	Dtmf is RFC2833 used in SIP protocol Payload Type
dtmfReceivePayloadType		Integer	Dtmf is RFC2833 soft switch receiving Dtmf Payload Type used by the signal
q931NumberingPlan	THE	Integer	Q931NumberingPlan -1: Default, use system parameter settings 0:UnknownPlan 1:ISDNPlan 3:DataPlan 4:TelexPlan 8:NationalStandardPlan 9:PrivatePlan 15:ReservedPlan

Parameter name	Required type		Description
q931NumberType	THE	Integer	Q931NumberType -1: Default, use system parameter settings 0:UnknownType 1:InternationalType 2:NationalType 3:NetworkSpecificType 4:SubscriberType 6:AbbreviatedType 7:ReservedType
q931PresentationIndicator O		Integer	Q931PresentationIndicator -1: Default, use system parameter settings 0:Presentation allowed 1:Presentation restricted 2:Number not available due to interworking 3:Reserved 4: None
q931ScreeningIndicator O		Integer	Q931ScreeningIndicator -1: Default, use system parameter settings 0:User-providedÿnot screened 1:User-providedÿverified and passed 2:User-providedÿverified and failed 3:Network provided 4: None
clearingAccount	THE	String	Settlement Account Name
h323FastStart	THE	Boolean	true: Enable H323 fast start function false: Disable H323 fast start function
h323H245Tunneling	THE	Boolean	true: Enable H245 tunneling of H323 able false: Disable H245 tunneling of H323 Function
h323H245InSetup	THE	Boolean	true: Included in H323 Setup signaling H245 Signaling false: Not included in the H323 Setup signaling H245 Signaling
h323T38	THE	Boolean	true: Support T38 signaling when using H323 protocol false: Ignore T38 signaling when using H323 protocol
sipTimer	THE	Boolean	true: Support SIP Timer protocol (RFC4028) false: Disable SIP Timer protocol

Parameter name	Required type		Description
sip100Rel	THE	Boolean	true:Support SIP 100rel protocol false: Disable SIP 100rel protocol
sipT38	THE	Boolean	true:Support SIP T38 protocol false: Disable SIP T38 protocol
sipDisplay	THE	Boolean	true: Included when sending signaling to the remote end Display header false: Sending a message to the remote end The Display header is not included.
sipRemotePartyId	THE	Boolean	true: Included when sending signaling to the remote end RemotePartyId header false: does not include the signaling information when sending it to the remote end. RemotePartyId header
sipPrivacy	THE	Integer	0: None 1: Transparent transmission 2:id 3:none
sipPPreferredIdentity	THE	Integer	0: None 1: Transparent transmission 2: Caller ID
sipPAssertedIdentity	THE	Integer	0: None 1: Transparent transmission 2: Caller ID
groupE164Change	THE	Boolean	true: Enable the number change function false: Disable the number change function
callerAllowLength	THE	Integer	Caller ID allowed number length mask 0: All lengths are allowed 1<<x: indicates that a number with a length of x is allowed (x Less than 32)
calleeAllowLength	THE	Integer	Number length mask allowed for the called number 0: All lengths are allowed 1<<x: indicates that a number with a length of x is allowed (x Less than 32)
callerLimitE164GroupsAllow	THE	Boolean	true: Allow callerLimitE164Groups The set number group is used as the calling number for calling false: Disable callerLimitE164Groups The set number group is used as the calling number for calling
callerLimitE164Groups O		String	Caller ID group list (comma separated)

Parameter name	Required type		Description
callLimitE164GroupsAllow	THE	Boolean	<p>true: Allow calleeLimitE164Groups</p> <p>The set number group is used as the called number for calling</p> <p>false: Prohibited calleeLimitE164Groups</p> <p>The set number group is used as the called number for calling</p>
streetLimitE164Groups O		String	Called number group list (comma-separated)
h323G729SendMode	THE	Integer	<p>H323 G729 negotiation mode</p> <p>0: Automatic</p> <p>1: Treat G729a and G729 as G729 coordinator.</p> <p><small>business</small></p> <p>2: Treat G729a and G729 as G729a</p> <p><small>business</small></p> <p>3: Use G729 or G729 as G729 and G729a Negotiation</p>
sipG729SendMode	THE	Integer	<p>SIP G729 negotiation mode</p> <p>0: Automatic</p> <p>1: Treat G729a and G729 as G729 coordinator.</p> <p><small>business</small></p> <p>2: Treat G729a and G729 as G729a</p> <p><small>business</small></p> <p>3: Use G729 or G729 as G729 and G729a Negotiation</p>
sipG729Annexb	THE	Integer	<p>G729 annexb parameter filling method</p> <p>0: Automatic</p> <p>1:annex=yes</p> <p>2:annex=no</p> <p>3: No annex</p> <p>4: Transparent transmission of the peer's annex</p>
sipG723Annexa	THE	Integer	<p>G723 annexa parameter filling method</p> <p>0: Automatic</p> <p>1:annex=yes</p> <p>2:annex=no</p> <p>3: No annex</p> <p>4: Transparent transmission of the peer's annex</p>
h323CodecAssign	THE	Boolean	<p>true: Limit H323 audio/video encoding to h323Codecs settings</p> <p>false: Softswitch auto-negotiation</p>
h323Codecs	THE	Vector<String>	H323 Audio/Video List

Parameter name	Required type		Description
sipCodecAssign	THE	Boolean	true: Limit SIP audio/video codecs to SIPCodecs settings false: Softswitch auto-negotiation
sipCodecs	THE	Vector<String>	SIP Audio/Video List
audioCodecTranscodingEnable	THE	Boolean	true: Enable encoding conversion false: Encoding conversion is not allowed
rtpIncludeDtmfInband	THE	Boolean	true: The media contains inband DTMF false: The media does not contain in-band (inband)DTMF
rtpNeedDtmfInband	THE	Boolean	true: Inband DTMF must be used for transmission false: No additional in-band usage (inband) DTMF sending
feerateRestrict	THE	Boolean	true: Check the called number rate false: Do not verify the rate
leastCostRouting	THE	Boolean	Lowest second rate sort (in feerateRestrict (valid when true) true: Enable false: Close
minProfitPercentEnable O		Boolean	Valid when feerateRestrict is true Whether to enable the minimum profit margin limit
minProfitPercent	THE	Integer	If the minimum profit margin limit is set to 10, it means Profit margin is 10% Value range: -10000 to 10000
maxSecondRatesEnable O		Boolean	Maximum per-second rate limit true: Enable false Close
maxSecondRates	THE	Double	The highest second rate value (if the minute rate is 0.6, This value should be set to 0.01)
enablePhoneDisplay	THE	Boolean	true: Use the phone's outgoing call function when the caller is a phone Display as calling number false: Use the phone number when the caller is a phone Display as calling number
clearingAccountUseCalloutE164	THE	Boolean	true: Use the called number after dialing rules as Billing the called party for the settlement account false: Use the called number before the dial plan Billing the called party for the settlement account
softswitchName	THE	String	Softswitch Name

Parameter name	Required type		Description
forwardSignalRewriteE164 GroupEnable	THE	Boolean	true: Enable call forwarding signaling dialing rules false: Disable call forwarding signaling dialing rules
forwardSignalRewriteE164 Group	THE	String	Name of the number group used by call forwarding signaling say
memo	THE	String	Remark
dynamicBlackListEnable lone	THE	Boolean	Enable dynamic blacklist in standalone mode true: Enable false: Close
mediaRecord	THE	Boolean	recording true: Enable false: Close
externalNumberVerifyBits O		Long	Intelligent blacklist, this parameter is bit controlled Each bit indicates that a certain function is enabled. 1<<0: Enable smart blacklist 1<<1: Insurance Marketing 1<<2: Stock Recommendations 1<<3: New real estate 1<<4: Education and Training 1<<5: M0/M1 collection 1<<6: Real estate agency 1<<7: Questionnaire 1<<8: Car insurance follow-up 1<<9: Customer Service Notice 1<<10: Financial Marketing 1<<11: Voice verification code
externalNumberVerifyRewriteCaller	THE	String	Intelligent blacklist caller dialing plan
externalNumberVerifyRewriteCallee	THE	String	Intelligent blacklist called dialing plan
scheduledCallinPrefixes O		InfoScheduledCallinPrefix is []	Time period call restriction
rewriteRulesInCallerUseE1 64GroupEnable	THE	Boolean	Caller ID pool false: Disable true: Enable
rewriteRulesInCallerUseE1 64Group	THE	String	Caller ID pool Number group name
rewriteRulesInCallerUseE1 64Line	THE	Integer	Number of reuses of calling number pool numbers

Parameter name	Required type		Description
signalPortLocal	THE	Integer	Signaling local port
calculateRouteQuality	THE	Integer	Real-time calculation of route quality 0: Default 1: On 2: Close

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.18 Deleting the Landing Gateway

Interface address/external/server/DeleteGatewayRouting

Request format

Parameter name	Required type		Description
name	M	String	Landing gateway name

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

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3.19 Query the landing gateway

Interface address/external/server/GetGatewayRouting

Request format

Parameter name	Required type		Description
names	M	String []	Gateway Name If not set, all connected gateway information will be obtained.

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoGatewayRoutings	THE	InfoGatewayRouting [] Phone Information	

TypeInfoGatewayRouting Format

Parameter name	Required type		Description
name	M	String	Landing gateway name
prefix	M	String	Landing gateway prefix (comma-separated)
prefixStyle	M	int	Prefix matching method 0: Termination mode 1: Continuation mode
password	M	String	Landing gateway registration password
customerPassword	M	String	Landing gateway web query password
gatewayGroups	M	String	Gateway group to which it belongs (commas separate multiple groups name)
capacity	M	int	Line Cap
lockType	M	int	Lock Type 0: No lock 3: Lock all
priority	M	int	Priority

Parameter name	Required type		Description
registerType	M	int	Registration Type 0: Static 1: Dynamic 2: Register (register on other platforms) 3: IMS Edge Devices
remotelp	M	String	Remote address of the landing gateway
rtpForwardType	M	int	Media forwarding type 0: Automatic 1: Enable 2: Close 3: Must be turned on
encrypt	M	boolean	true: encryption false: No encryption
protocol	M	int	Signaling Protocol 0:H323 1:SIP
signalPort	M	int	Signaling port
localIp	M	String	Local Address Empty: means the system selects the local address by itself
mediaCheckDirection M		int	Media interruption detection (only when a call is (Effective when forwarding) 0: No detection 1: Check whether there is a media message transmitted to the remote end 2: Check whether the media report from the remote end is received arts 3: Detect whether there is a two-way media report between the remote end and the local end arts
maxCallDurationLower M		int	Greater than 0: the lower limit of the maximum call time -1: Use system parameter value (need to be consistent with maxCallDurationUpper remains consistent) 0: No restrictions (need to be combined with maxCallDurationUpper remains consistent)
maxCallDurationUpper M		int	Greater than 0: Maximum call time limit -1: Use system parameter value (need to be consistent with maxCallDurationLower remains consistent) 0: No restrictions (need to be combined with maxCallDurationLower remains consistent)

Parameter name	Required type		Description
calleeE164Restrict	M	int	Called number restriction 0: No limit 1: The called number must exist on the platform Phone number 2: The called number must not exist on the platform Phone number
callerE164CheckEnable M		boolean	true: Check the calling number standardization false: Do not check the calling number standardization
callerE164CheckCity	M	boolean	true: Allow the calling number to be a city number false: The calling number is not allowed to be a city number
callerE164CheckMobile M		boolean	true: Allow the calling number to be a mobile number false: The calling number is not allowed to be a mobile number
callerE164CheckOther M		boolean	true: Allow the calling number to be a non-city number and Non-mobile number false: The calling number is not allowed to be a non-city number With non-mobile number
callE164CheckEnable M		boolean	true: Check the called number standardization false: Do not check the called number standardization
streetE164CheckCity M		boolean	true: Allow the number to be a city number false: The called number is not allowed to be a city number
calleeE164CheckMobile M		boolean	true: Allow the called number to be a mobile number false: The called number is not allowed to be a mobile number
silenceE164CheckOther M		boolean	true: Allow the called number to be a non-city number Non-mobile number false: Do not allow the called number to be a non-city number With non-mobile number
callinCallerPrefixesAllow M		boolean	true: Allow callinCallerPrefixes to be set Prefix list as calling number prefix false: Disable callinCallerPrefixes setting The prefix list is used as the calling number prefix
callinCallerPrefixes	M	LongString	Caller ID prefix in the caller ID restriction function List (comma separated)
callinCalleePrefixesAllow M		boolean	true: Allow callinCalleePrefixes settings Prefix list as the called number prefix false: Disable callinCalleePrefixes setting The prefix list is used as the prefix of the called number
callinCalleePrefixes	M	LongString	Called number prefix in the called number restriction function List (comma separated)

Parameter name	Required type		Description
callinForwardPrefixesAllow	M	boolean	<p>true: Allow callinForwardPrefixes setting The prefix list is used as the forwarding number prefix</p> <p>false: Disable callinForwardPrefixes The configured prefix list is used as the forwarding number prefix</p>
callinForwardPrefixes M		LongString	Forwarding number prefix in the forwarding number restriction function List (comma separated)
rewriteRulesInCaller	M	LongString	Caller dialing plan
rewriteRulesInCallee	M	LongString	Callee dialing plan
rewriteRulesInMobileArea Allow	M	boolean	<p>true: enable rewriteRulesInMobileArea The area code you set corresponds to the mobile number of the city Add area code</p> <p>false: Close rewriteRulesInMobileArea The area code you set corresponds to the mobile number of the city Add area code</p>
rewriteRulesInMobileArea M		LongString	Areas where mobile numbers need to have area codes added (can be separated by commas)
timeoutSetup	M	int	<p>H323 Setup timeout (unit: seconds)</p> <p>0: Indicates using the system parameter setting value</p>
timeoutCallProceeding M		int	<p>H323 CallProceeding timeout (single bit:second)</p> <p>0: Indicates using the system parameter setting value</p>
timeoutCallProceedingOlc M		int	<p>H323 CallProceeding includes Open Logical Channel timeout (unit: seconds)</p> <p>0: Indicates using the system parameter setting value</p>
timeoutAlerting	M	int	<p>H323 Alerting timeout (unit: seconds)</p> <p>0: Indicates using the system parameter setting value</p>
timeoutInvite	M	int	<p>SIP Invite timeout (unit: seconds)</p> <p>0: Indicates using the system parameter setting value</p>
timeoutTrying	M	int	<p>SIP Trying timeout (unit: seconds)</p> <p>0: Indicates using the system parameter setting value</p>
timeoutSessionProgressSdp	M	int	<p>SIP SessionProgress with SDP timeout Time (unit: seconds)</p> <p>0: Indicates using the system parameter setting value</p>
timeoutSessionProgress M		int	<p>SIP SessionProgress timeout (unit: Second)</p> <p>0: Indicates using the system parameter setting value</p>

Parameter name	Required type		Description
timeoutRinging	M	int	SIP Ring timeout (unit: seconds) 0: Indicates using the system parameter setting value
denyCallerCalleeAllow M		boolean	true: Allows the denyCallerCallee setting Make a call to the called party false: Disable denyCallerCallee setting The calling party calls the called party
denyCallerCallee	M	LongString	Restriction list for the calling party to make calls to the corresponding called party The table format is [<calling number>:<called number> code>[,<calling number>:<called number>]...] For example: 025:010,021:023
denySameCityCodesAllow M		boolean	true: Allow denySameCityCodes setting area code to make calls in the same city false: Disable denySameCityCodes setting area code to make calls in the same city
denySameCityCodes	M	LongString	List of city area codes where the local calling function is restricted (Use commas to separate multiple area codes)
checkMobileAreaAllow M		boolean	true: Allow calling checkMobileArea The mobile number of the city corresponding to the area code false: Disable calling checkMobileArea The mobile number of the city corresponding to the area code
checkMobileArea	M	LongString	City area codes where mobile number calling function is restricted List (use commas to separate multiple area codes)
switchAllowRing	THE	Boolean	Gateway switches after receiving ring signal 18x Mode false: Prohibited true: allow
switchAllowSdp	THE	Boolean	When the SIP protocol is used, when the signaling contains Sdp Subsequent processing methods false: Prohibited true: allow
switchAllowRtp	THE	Boolean	When receiving media from the remote end during media forwarding Subsequent processing method for body message false: Prohibited true: allow
switchAllowBusy	THE	Boolean	Subsequent processing method when receiving a call busy false: Prohibited true: allow

Parameter name	Required type		Description
switchAllowErrorCode	THE	Boolean	Receive error code in the list, then switch gateway Way false: Prohibited true: allow
sipResponseAddressMethod	M	int	SIP Response signaling address 0: Respond to the original request address 1: Respond to the original request IP, but use the port Use the port identified in the Via header 2: Respond to the address identified in the Via header
sipRequestAddressMethod	M	int	SIP Request signaling address 0: Request to the original request address 1: Request to the original request IP, but the port is Use the port identified in the Contact header 2: Request to the address identified in the Contact header
dtmfSendMethodH323	M	int	H323 protocol, soft switch sends DTMF Mode 0: Automatic 10:RFC2833 20:H.245 alphanumeric 30:H.245 signal 40:Q.931 keypad 60: Close
dtmfSendMethodSIP	M	int	SIP protocol, soft switch sends DTMF method 0: Automatic 10:RFC2833 50:SIP Info 60: Close
dtmfReceiveMethod	M	int	Softswitch receives calling DTMF method 0: All 10:RFC2833 20: Signaling 30: Close
dtmfSendPayloadTypeH323	M	int	Dtmf is RFC2833 used in H323 protocol Payload Type used
dtmfSendPayloadTypeSIP	M	int	Dtmf is RFC2833 used in SIP protocol Payload Type used
dtmfReceivePayloadType	M	int	Dtmf is RFC2833 soft switch receiving Dtmf Payload Type used by the signal

Parameter name	Required type		Description
q931NumberingPlan	M	int	Q931NumberingPlan -1: Default, use system parameter settings 0:UnknownPlan 1:ISDNPlan 3:DataPlan 4:TelexPlan 8:NationalStandardPlan 9:PrivatePlan 15:ReservedPlan
q931NumberType	M	int	Q931NumberType -1: Default, use system parameter settings 0:UnknownType 1:InternationalType 2:NationalType 3:NetworkSpecificType 4:SubscriberType 6:AbbreviatedType 7:ReservedType
q931PresentationIndicator M		int	Q931PresentationIndicator -1: Default, use system parameter settings 0:Presentation allowed 1:Presentation restricted 2:Number not available due to interworking 3:Reserved 4: None
q931ScreeningIndicator M		int	Q931ScreeningIndicator -1: Default, use system parameter settings 0:User-provided not screened 1:User-provided verified and passed 2:User-provided verified and failed 3:Network provided 4: None
clearingAccount	M	String	Settlement Account Name
h323FastStart	M	boolean	true: Enable H323 fast start function false: Disable H323 fast start function
h323H245Tunneling	M	boolean	true: Enable H245 tunneling of H323 able false: Disable H245 tunneling of H323 Function

Parameter name	Required type		Description
h323H245InSetup	M	boolean	true: Included in H323 Setup signaling H245 Signaling false: Not included in the H323 Setup signaling H245 Signaling
h323T38	M	boolean	true: Support T38 signaling when using H323 protocol false: Ignore T38 signaling when using H323 protocol
sipTimer	M	boolean	true: Support SIP Timer protocol (RFC4028) false: Disable SIP Timer protocol
sip100Rel	M	boolean	true: Support SIP 100rel protocol false: Disable SIP 100rel protocol
sipT38	M	boolean	true: Support SIP T38 protocol false: Disable SIP T38 protocol
sipDisplay	M	boolean	true: Included when sending signaling to the remote end Display header false: Sending a message to the remote end The Display header is not included.
sipRemotePartyId	M	boolean	true: Included when sending signaling to the remote end RemotePartyId header false: does not include the signaling information when sending it to the remote end. RemotePartyId header
sipPrivacy	THE	Integer	0: None <small>1: Transparent transmission</small> 2: id 3: none
sipPPreferredIdentity	THE	Integer	0: None <small>1: Transparent transmission</small> 2: Caller ID
sipPAssertedIdentity	THE	Integer	0: None <small>1: Transparent transmission</small> 2: Caller ID
groupE164Change	M	boolean	true: Enable the number change function false: Disable the number change function
callerAllowLength	M	int	Caller ID allowed number length mask 0: All lengths are allowed 1<<x: indicates that a number with a length of x is allowed (x Less than 32)

Parameter name	Required type		Description
calleeAllowLength	M	int	Number length mask allowed for the called number 0: All lengths are allowed 1<<x: indicates that a number with a length of x is allowed (x Less than 32)
callerLimitE164GroupsAllow	M	boolean	true: Allow callerLimitE164Groups The set number group is used as the calling number for calling false: Disable callerLimitE164Groups The set number group is used as the calling number for calling
callerLimitE164Groups M		String	Caller ID group list (comma separated)
callLimitE164GroupsAllow	M	boolean	true: Allow calleeLimitE164Groups The set number group is used as the called number for calling false: Prohibited calleeLimitE164Groups The set number group is used as the called number for calling
callLimitE164Groups M		String	Called number group list (comma-separated)
h323G729SendMode	M	int	H323 G729 negotiation mode 0: Automatic 1: Treat G729a and G729 as G729 coordinator. <small>business</small> 2: Treat G729a and G729 as G729a <small>business</small> 3: Use G729 or G729 as G729 and G729a Negotiation
sipG729SendMode	M	int	SIP G729 negotiation mode 0: Automatic 1: Treat G729a and G729 as G729 coordinator. <small>business</small> 2: Treat G729a and G729 as G729a <small>business</small> 3: Use G729 or G729 as G729 and G729a Negotiation
sipG729Annexb	M	int	G729 annexb parameter filling method 0: Automatic 1: annex=yes 2: annex=no 3: No annex 4: Transparent transmission of the peer's annex

Parameter name	Required type		Description
sipG723Annexa	M	int	G723 annexa parameter filling method 0: Automatic 1:annex=yes 2:annex=no 3: No annex 4: Transparent transmission of the peer's annex
h323CodecAssign	M	boolean	true: Limit H323 audio/video encoding to h323Codecs settings false: Softswitch auto-negotiation
h323Codecs	M	Vector<String>	H323 Audio/Video List
sipCodecAssign	M	boolean	true: Limit SIP audio/video codecs to SIPCodecs settings false: Softswitch auto-negotiation
sipCodecs	M	Vector<String>	SIP Audio/Video List
audioCodecTranscodingEnable	M	boolean	true: Enable encoding conversion false: Encoding conversion is not allowed
rtplIncludeDtmfInband M		boolean	true: The media contains inband DTMF false: The media does not contain in-band (inband)DTMF
rtplNeedDtmfInband	M	boolean	true: Inband DTMF must be used for transmission false: No additional in-band usage (inband) DTMF sending
feerateRestrict	M	boolean	true: Check the called number rate false: Do not verify the rate
leastCostRouting	M	boolean	Lowest second rate sort (in feerateRestrict (valid when true) true: Enable false: Close
minProfitPercentEnable M		boolean	Valid when feerateRestrict is true Whether to enable the minimum profit margin limit
minProfitPercent	M	int	If the minimum profit margin limit is set to 10, it means Profit margin is 10% Value range: -10000 to 10000
maxSecondRatesEnable M		boolean	Maximum per-second rate limit true: Enable false Close
maxSecondRates	M	double	Maximum second rate value

Parameter name	Required type		Description
enablePhoneDisplay	M	boolean	true: Use the phone's outgoing call function when the caller is a phone Display as calling number false: Use the phone number when the caller is a phone Display as calling number
clearingAccountUseCalloutE164	M	boolean	true: Use the called number after dialing rules as Billing the called party for the settlement account false: Use the called number before the dial plan Billing the called party for the settlement account
softswitchName	THE	String	Softswitch Name Not set: does not belong to any soft switch Empty string: indicates that it belongs to all soft switches
forwardSignalRewriteE164GroupEnable	THE	Boolean	true: Enable call forwarding signaling dialing rules false: Disable call forwarding signaling dialing rules
forwardSignalRewriteE164Group	THE	String	Name of the number group used by call forwarding signaling say
memo	THE	String	Remark
dynamicBlackListEnable	THE	Boolean	Enable dynamic blacklist in standalone mode true: Enable false: Close
mediaRecord	THE	Boolean	recording true: Enable false: Close
externalNumberVerifyBits		Long	Intelligent blacklist, this parameter is bit controlled Each bit indicates that a certain function is enabled. 1<<0: Enable smart blacklist 1<<1: Insurance Marketing 1<<2: Stock Recommendations 1<<3: New real estate 1<<4: Education and Training 1<<5: M0/M1 collection 1<<6: Real estate agency 1<<7: Questionnaire 1<<8: Car insurance follow-up 1<<9: Customer Service Notice 1<<10: Financial Marketing 1<<11: Voice verification code
externalNumberVerifyRewriteCaller	THE	String	Intelligent blacklist caller dialing plan

Parameter name	Required type		Description
externalNumberVerifyRewriteCallee	THE	String	Intelligent blacklist called dialing plan
scheduledCallinPrefixes O		InfoScheduledCallinPrefix is []	Time period call restriction
rewriteRulesInCallerUseE164GroupEnable	THE	Boolean	Caller ID pool false: Disable true: Enable
rewriteRulesInCallerUseE164Group	THE	String	Caller ID pool Number group name
rewriteRulesInCallerUseE164Line	THE	Integer	Number of reuses of calling number pool numbers
signalPortLocal	THE	Integer	Signaling local port
calculateRouteQuality	THE	Integer	Real-time calculation of route quality 0: Default 1: On 2: Close

3.20 Query online landing gateway

Interface address/external/server/GetGatewayRoutingOnline

Request format

Parameter name	Required type		Description
names	THE	String []	Connected gateway name Not set: Indicates that this filter condition is invalid
softswitchName	THE	String	Softswitch Name Not set: Indicates that this filter condition is invalid. All soft switches

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoGatewayRoutingOnline is	THE	InfoGatewayRoutingOnline and []	Package order list

TypeInfoGatewayRoutingOnline Format

Parameter name	Required type		Description
id	M	int	Landing gateway ID
name	M	String	Landing gateway name
prefix	M	String	Landing gateway prefix
currentCall	M	int	Total current calls
capacity	M	int	Call line limit
asr	M	double	Call answer rate
responseRatio	M	double	Call response rate
connectedRatio	M	double	Call completion rate
acd	M	long	Average call duration (unit: seconds)
remotelp	M	String	Remote Address
natlp	THE	String	NAT internal address, only between gateway and softswitch Valid when there is an address translation device
locallp	M	String	Registering a local address

Parameter name	Required type		Description
registerTime	M	long	Registration time (UTC 1970-01-01 to present) milliseconds) 0: Static gateway
updateTime	M	long	Last updated (UTC 1970-01-01 to Today's milliseconds) 0: Static gateway
keepTime	M	long	Online time (unit: seconds) 0: Static gateway
cryptoType	M	int	Encryption type 0: Not encrypted 1:RC4
registerName	THE	String	The identifier registered with other platforms is only available on the gateway Valid when the type is registered
retryAfter	M	long	Gateway disabled time (milliseconds), disabled due to The gateway responds to the Retry-After header field.
softswitchName	M	String	Softswitch Name
softswitchIp	M	String	Softswitch IP

3.21 Query current call

Interface address/external/server/GetCurrentCall

This interface is not recommended to be used frequently. Too frequent calls may lead to poor system performance.

Request format

Parameter name	Required type		Description
callerE164s	THE	String []	Caller ID Not set: Indicates that this filter condition is invalid
calleeE164s	THE	String []	called number Not set: Indicates that this filter condition is invalid
gatewayMappingName	THE	String	Docking Gateway Not set: Indicates that this filter condition is invalid
gatewayRoutingName	THE	String	Landing Gateway Not set: Indicates that this filter condition is invalid

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoCurrentCalls	THE	InfoCurrentCall []	Current call list

TypeInfoCurrentCall Format

Parameter name	Required type		Description
callerE164	M	String	Caller ID
silenceE1	M	String	called number
callerGatewayId	M	String	Calling Gateway
callGatewayId	M	String	called gateway
connectedTime	M	long	Call connection time When the call is not connected, it indicates the call incoming time (Milliseconds since UTC 1970-01-01)

Parameter name	Required type		Description
keepTime	M	long	Greater than or equal to 0: Call duration (unit: milliseconds) Second) -1: Call initialization (Setup) -2: Call Proceeding -3: Call Proceeding ÿRTPÿÿ -4: Call connecting (Progress) -5: Alerting -6: Connect -7: Call initialization (Invite) -8: Call connecting (Trying) -9: Call connection in progress (SessionProgress) -10: Call connecting (SessionProgress (SDP) -11: Ringing -12: Connect (Ok) -13: Release -14: Transferring -15: Call transfer successful (TransferOk) -16: Call transfer failed (TransferFailed) -17: Abort call transfer (TransferCancel)
callCodec	M	String	Call Code
callerCodec	M	String	Calling code set
calleeCodec	M	String	Called code set
callerRtplp	M	String	Caller Rtp address information (including audio and video)
calleeRtplp	M	String	Called party's RTP address information (including audio and video)
callerReceiveDtmf	M	int	Softswitch receives calling DTMF method 0: Automatic 10: RFC2833 20: H.245 alphanumeric 30: H.245 signal 40: Q.931 keypad 50: SIP Info 60: Close
callerSendDtmf	M	int	The DTMF method sent by the soft switch to the calling party. Same value as callerReceiveDtmf
calleeReceiveDtmf	M	int	Softswitch accepts called DTMF method, value ÿ callerReceiveDtmf

Parameter name	Required type		Description
calleeSendDtmf	M	int	DTMF method sent by the soft switch to the called party. Same value as callerReceiveDtmf
callerInfoRtpFlowAudio M		InfoRtpFlow	Calling voice traffic information
calleeInfoRtpFlowAudio M		InfoRtpFlow	Called voice traffic information
callerInfoRtpFlowVideo M		InfoRtpFlow	Caller video traffic information
callInfoRtpFlowVideo M		InfoRtpFlow	Called video traffic information
callerTerminal	M	String	Calling device name
calledTerminal	M	String	Name of the called device
callerCryptoType	M	int	Caller encryption type 0: Not encrypted 1:RC4
calleeCryptoType	M	int	Callee encryption type 0: Not encrypted 1:RC4
callerLocalIp	M	String	Caller signaling local address
calleeLocalIp	M	String	Callee signaling local address
callId	M	int	Unique identifier of the call in the softswitch

InfoRtpFlow format

Parameter name	Required type		Description
rtpPackets	M	int	Number of received messages
rtpBytes	M	int	Number of bytes received
rtpDuration	M	long	Duration (unit: microseconds)

3.22 Top-up

Interface address/external/server/Pay

Request format

Parameter name	Required type		Description
ownerName	M	String	Recharge object name
ownerType	M	int	Recharge object name type 2: Account 6: Platform Phone 11: Phone card number in use 25: Bind number 44: Docking Gateway
money	M	double	Recharge amount
memo	THE	String	Recharge Notes

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoPay	THE	InfoPay	Payment history

InfoPay format

Parameter name	Required type		Description
account	M	String	Account Name
money	M	double	Account balance
validTime	M	long	Validity period (milliseconds from UTC 1970-01-01 to present) <small>(number of seconds)</small>
payMoney	M	double	Recharge amount

3.23 Create a Package

Interface address/external/server/CreateSuite

Request format

Parameter name	Required type		Description
name	M	String	Package Name
rentPeriod	M	int	Lease period (must be greater than 0)
rentType	M	int	Lease Type 0: day January 2: Year 3: One-time (rentPeriod meaning changed to (Number of seconds))
nonholonomicOrder	M	boolean	true: Allow incomplete subscriptions false: Do not allow incomplete subscriptions
rentFee	M	double	rent
minConsumption	M	double	Minimum spending amount
lowerConsumption	M	double	Effective consumption limit
giftMoney	M	double	Gift amount
infoGiftTimes	THE	InfoGiftTime []	Gift duration
memo	THE	String	Remark

InfoGiftTime format

Parameter name	Required type		Description
prefix	M	LongString	Region prefix (you can use commas to separate multiple prefixes. (suffix))
startTime	M	int	The start time of the day (value range 0–86400), which is the same time as 0:00 on the same day. Deviation in seconds
endTime	M	int	End time of the day (value range 0–86400), which is the same time as 0:00 on the same day. Deviation in seconds
giftTime	M	int	Free seconds
billingTime	M	int	Billing cycle for gift time
memo	THE	String	Remark

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
id	THE	Integer	Package Id

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3.24 Deleting a Package

Interface address/external/server/DeleteSuite

Request format

Parameter name	Required type		Description
id	M	int	Package Id
force	THE	int	0: Do not force deletion, check dependencies (default recognize) 1: Force deletion and cancel dependencies

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.25 Check Package

Interface address/external/server/GetSuite

Request format

Parameter name	Required type		Description
ids	THE	int []	Package Id array, when this value is not set, the table Get all package information

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoSuites	THE	InfoSuite []	Package Information

InfoSuite format

Parameter name	Required type		Description
id	M	int	Package Id
name	M	String	Package Name
rentPeriod	M	int	Lease period
rentType	M	int	Lease Type 0: day January 2: Year 3: One-time (rentPeriod meaning changed to <small>(Number of seconds required)</small>
nonholonomicOrder	M	boolean	true: Allow incomplete subscriptions false: Do not allow incomplete subscriptions
rentFee	M	double	rent
minConsumption	M	double	Minimum spending amount
lowerConsumption	M	double	Effective consumption limit
giftMoney	M	double	Gift amount
infoGiftTimes	THE	InfoGiftTime []	Gift duration
memo	THE	String	Remark

3.26 Create a package order

Interface address/external/server/CreateSuiteOrder

Request format

Parameter name	Required type		Description
ownerName	M	String	Owner Name
ownerType	M	int	Owner Type 2: Account 6: Phone
suiteld	M	int	Package Id
availableTime	M	long	Effective time (UTC 1970-01-01 to present) Milliseconds, must be 0 o'clock in the server time zone 0: Indicates that the effective time is the current day in the server time zone 0 o'clock, and effective immediately
expireTime	THE	Long	Expiration time (GMT 1970-01-01 to present) milliseconds Not selected or 9223372036854775807 means No restrictions When the package rentType is "one-time": if not If this value is set, the one-time package will expire AvailableTime + Package rentPeriod *1000; if this value is set, This value sets the expiration time. Once the order is created, it will be converted into a valid package. Meals, orders automatically deleted
priority	THE	Integer	Priority Not set or 2147483647 means no priority class
failedProcessMode	THE	Integer	What to do when your account balance is insufficient to pay the rent Management Model 0 (default): Wait for the next recharge 1: Wait for the next rental period (only in packages (Effective when the rental unit is daily or monthly) 2: Delete
rentPercent	THE	Double	Rent percentage Default value: 100
memo	THE	String	Order Notes

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
id	THE	Integer	After success, the id of the created package order is returned

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3.27 Modifying a Package Order

Interface address/external/server/ModifySuiteOrder

Request format

Parameter name	Required type		Description
id	M	int	Package order ID
expireTime	THE	Long	Expiration time (UTC 1970-01-01 to present) Milliseconds, must be 0 o'clock in the server time zone) 9223372036854775807: indicates no limit
priority	THE	Integer	Priority Not set or 2147483647 means no priority class
failedProcessMode	THE	Integer	What to do when your account balance is insufficient to pay the rent Management Model 0 (default): Wait for the next recharge 1: Wait for the next rental period (only in packages (Effective when the rental unit is daily or monthly) 2: Delete
rentPercent	THE	Double	Rent percentage
memo	THE	String	Order Notes

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.28 Deleting a Package Order

Interface address/external/server/DeleteSuiteOrder

Request format

Parameter name	Required type		Description
id	M	int	The id of the package order

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

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3.29 Checking Package Orders

Interface address/external/server/GetSuiteOrder

Request format

Parameter name	Required type		Description
ownerName	M	String	Owner Name
ownerType	M	int	Owner Type 2: Account 6: Phone

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoSuiteOrders	THE	InfoSuiteOrder []	Package order list

InfoSuiteOrder Format

Parameter name	Required type		Description
id	M	int	Package Order Id
suiteld	M	int	Package Id
availableTime	M	long	Effective time (UTC 1970-01-01 to present) milliseconds)
expireTime	M	long	Expiration time (UTC 1970-01-01 to present) Milliseconds) Another: 9223372036854775807 Indicates no limit
priority	M	int	Priority
rentPercent	M	double	Rent percentage
memo	M	String	Order Notes

3.30 Checking the effective packages

Interface address/external/server/GetCurrentSuite

Request format

Parameter name	Required type		Description
ownerName	M	String	Owner Name
ownerType	M	int	Owner Type 2: Account 6: Phone

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoCurrentSuites	THE	InfoCurrentSuite []	Package order list

TypeInfoCurrentSuite Format

Parameter name	Required type		Description
id	M	int	Effective package ID
suiteld	M	int	Package Id
suiteOrderld	M	int	Package Order Id
rentPeriod	M	int	Lease period
rentType	M	int	Lease Type 0: day January 2: Year 3: One-time (rentPeriod meaning changed to <small>(Number of seconds required)</small>)
rentFee	M	double	rent
expireTime	M	long	Expiration time (Milliseconds since UTC 1970-01-01)
minConsumption	M	double	Minimum spending amount
currentConsumption	M	double	Consumption within the cycle
lowerConsumption	M	double	Effective consumption limit

Parameter name	Required type		Description
giftMoney	M	double	Gift amount
infoGiftTimes	THE	InfoGiftTime []	Gift duration
memo	THE	String	Remark

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3.31 Deleting an active package

Interface address/external/server/DeleteCurrentSuite

Request format

Parameter name	Required type		Description
id	M	int	Effective package ID

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.32 Create a Calling Card in Use

Interface address/external/server/CreateActivePhoneCard

Request format

Parameter name	Required type		Description
pin	M	String	card number
account	M	String	The account to which the calling card in use belongs
password	THE	String	password
displayE164	THE	String	Outgoing Caller ID
bindLimit	THE	Integer	Upper limit of bound number Not set: means no limit
memo	THE	String	Remark

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
password	THE	Integer	When a password is not set in the creation request, the system automatically Automatically generate random passwords

3.33 Modify the current phone card

Interface address/external/server/ModifyActivePhoneCard

Request format

Parameter name	Required type		Description
pin	M	String	card number
account	THE	String	The account to which the calling card in use belongs
password	THE	String	password
displayE164	THE	String	Outgoing Caller ID
bindLimit	THE	Integer	Upper limit of bound number Not set: means no limit
memo	THE	String	Remark

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.34 Deleting a SIM Card in Use

Interface address/external/server/DeleteActivePhoneCard

Request format

Parameter name	Required type		Description
pin	M	String	card number

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.35 Checking the current phone cards

Interface address/external/server/GetActivePhoneCard

Request format

Parameter name	Required type		Description
pins	THE	String []	Card number list (if accounts is not set, this parameter (Required)
accounts	THE	String []	Account number list (if pins is not set, this Parameter required)

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoActivePhoneCards	THE	InfoActivePhoneCard []	Active phone card information

InfoActivePhoneCard format

Parameter name	Required type		Description
pin	M	String	card number
account	M	String	The account to which the calling card in use belongs
password	M	String	password
displayE164	M	String	Outgoing Caller ID
bindLimit	M	int	Upper limit of bound number Not set: means no limit
activeTime	M	long	Activation time (UTC 1970-01-01 to present) milliseconds)
memo	M	String	Remark

3.36 Create a bound number

Interface address/external/server/CreateBindedE164

Request format

Parameter name	Required type		Description
e164	M	String	Bind number
pin	M	String	card number
displayE164	THE	String	Outgoing Caller ID
rewriteRulesOutCallee	THE	LongString	Outbound dialing plan
language	THE	String	language
memo	THE	String	Remark

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.37 Modify bound number

Interface address/external/server/ModifyBindedE164

Request format

Parameter name	Required type		Description
e164	M	String	Bind number
pin	THE	String	card number
displayE164	THE	String	Outgoing Caller ID
rewriteRulesOutCallee	THE	LongString	Outbound dialing plan
language	THE	String	language
memo	THE	String	Remark

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.38 Deleting a bound number

Interface address/external/server/DeleteBindedE164

Request format

Parameter name	Required type		Description
e164	M	String	Bind number

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.39 Querying the bound number

Interface address/external/server/GetBindedE164

Request format

One of the parameters must be selected

Parameter name	Required type		Description
e164s	THE	String []	Bound number list
pin	THE	String	Current calling card number
account	THE	String	Account Number

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoBindedE164s	THE	InfoBindedE164 []	Binding number information

InfoBindedE164 format

Parameter name	Required type		Description
e164	M	String	Bind number
pin	M	String	card number
account	M	String	The account to which the calling card in use belongs
displayE164	M	String	Outgoing Caller ID
rewriteRulesOutCallee M		LongString	Outbound dialing plan
bindTime	M	long	Binding time (UTC 1970-01-01 to present) milliseconds)
language	M	String	language
memo	M	String	Remark

3.40 Query Rate Group

Interface address/external/server/GetFeeRateGroup

Request format

Parameter name	Required type		Description
names	THE	String []	Rate group name list

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoFeeRateGroups	THE	InfoFeeRateGroup []	Rate group information

InfoFeeRateGroup format

Parameter name	Required type		Description
name	M	String	Rate Group Name
memo	M	String	Remark

3.41 Creating a Rate Group

Interface address/external/server/CreateFeeRateGroup

Request format

Parameter name	Required type		Description
name	M	String	Rate Group Name
fakeMinute	THE	Integer	60 seconds equivalent time of phone card
memo	THE	String	Remark

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.42 Modify Rate Group

Interface address/external/server/ModifyFeeRateGroup

Request format

Parameter name	Required type		Description
name	M	String	Rate Group Name
fakeMinute	THE	Integer	60 seconds equivalent time of phone card
memo	THE	String	Remark

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.43 Deleting a Rate Group

Interface address/external/server/DeleteFeeRateGroup

Request format

Parameter name	Required type		Description
name	M	String	Rate Group Name

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.44 Rate Inquiry

Interface address/external/server/GetFeeRate

Request format

Parameter name	Required type		Description
feeRateGroup	M	String	Rate Group Name
areaCodes	THE	String []	Regional Information List

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoFeeRates	THE	InfoFeeRate []	Rate Information

InfoFeeRate format

Parameter name	Required type		Description
feePrefix	M	String	Rate Prefix
areaCode	M	String	Region prefix
type	M	int	Rate Type 1: Intra-network calls 2: Local calls 4: Domestic long distance calls 5: International long distance
areaName	M	String	Region Name
infoFeeRateSections	M	InfoFeeRateSection []	Section rate
fee	M	double	Billing rate
period	M	int	Billing cycle
lockType	M	int	Lock Type 0: No lock 1: Lock
ivrFee	M	double	Phone card reminder rate
ivrPeriod	M	int	Phone card billing cycle reminder

InfoFeeRateSection format

Parameter name	Required type		Description
fee	M	double	Amount
time	M	int	Billing duration
position	M	int	Serial number

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3.45 Query Number Conversion Table

Interface address/external/server/GetE164Convert

Request format

Parameter name	Required type		Description
account	THE	String	Account Number
e164	THE	String	telephone number

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoE164Converts	THE	InfoE164Convert []	Payment history

InfoE164Convert format

Parameter name	Required type		Description
id	M	int	Unique identifier
account	M	String	Account Name
e164	M	String	telephone number
mappingGatewayCallerE164	M	String	Incoming caller number of the gateway
routingGatewayCalleeE164	M	String	The ground gateway calls the called number
memo	M	String	Account balance after payment

3.46 Query Payment Records

Interface address/external/server/GetPayHistory

Request format

Parameter name	Required type		Description
account	THE	String	Account number (when agentAccount is not set This parameter must be set)
agentAccount	THE	String	Agent account number (when account is not set This parameter must be set)
beginTime	M	String	Start time Format: yyyyMMddHHmmss
endTime	M	String	End Time Format: yyyyMMddHHmmss

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoPayHistorys	THE	InfoPayHistory[]	Payment history

InfoPayHistory format

Parameter name	Required type		Description
account	M	String	Account Name
fee	M	double	Payment amount
type	M	int	type 0: Recharge 1: Deduction 2: Open an account 3: Return to zero
payType	M	int	Way 0: Cash 2: Recharge card 5: Other
customerMoney	M	double	Account balance after payment

Parameter name	Required type		Description
payTime	M	long	Payment time (UTC 1970-01-01 to present) milliseconds)
memo	M	String	Remark

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3.47 Querying Historical CDRs

Interface address/external/server/GetCdr

This interface is designed for third-party accounting processing and should not be used for frequent operations due to performance issues.

Request format

Parameter name	Required type		Description
accounts	M	String []	Account Number List
callerE164	THE	String	Caller ID
silenceE1	THE	String	called number
callerGateway	THE	String	Calling Gateway
calleeGateway	THE	String	called gateway
beginTime	M	String	Start time Format: yyyyMMdd
endTime	M	String	End Time Format: yyyyMMdd

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoCdrs	THE	InfoCdr []	Call record information

InfoCdr format

Parameter name	Required type		Description
callerE164	M	String	Billing calling number
callerAccessE164	M	String	Incoming caller number
callerProductId	M	String	Calling device name
callerToGatewayE164	M	String	Outgoing caller number
callerGateway	M	String	Calling Gateway
callerip	M	String	Calling IP address
silenceE1	M	String	Billing called number
calleeAccessE164	M	String	Incoming called party
calleeProductId	M	String	Name of the called device

Parameter name	Required type		Description
callToGatewayE164 M		String	Outgoing called number
calleeGateway	M	String	called gateway
calleeip	M	String	Called IP address
start	M	long	Start time (UTC 1970-01-01 to present) milliseconds)
stop	M	long	End time (UTC 1970-01-01 to present) milliseconds)
holdTime	M	int	Duration of the call (seconds)
feeTime	M	int	Call billing duration (seconds)
fee	M	double	Account deduction amount
feePrefix	M	String	Billing area prefix
suiteFee	M	double	Package Fee
suiteFeeTime	M	int	Package gift duration (seconds)
agentFee	M	double	Agent deduction amount
agentFeeTime	M	int	Agent billing duration (seconds)
agentFeePrefix	M	String	Agency billing region prefix
agentSuiteFee	M	double	Agent package fee
agentSuiteFeeTime	M	int	Agent gift duration (seconds)
callLevel	M	int	Call Level 1: Intra-network calls 2: Local calls 4: Domestic long distance calls 5: International long distance
account	M	String	Account Number
accountName	M	String	Account Name
agentAccount	M	String	Agent Account Number
agentName	M	String	Agent Account Name
endDirection	M	int	Hang up party 0: Calling 1: called 2: Server
endReason	M	int	Termination reason: Please refer to the "Termination reason" description

Parameter name	Required type		Description
calleeBilling	M	int	Billing method 0: Calling number billing 1: Called party billing 2: External billing
billingMode	M	int	Billing model 0: Billing is based on the account the phone belongs to 1: Billing is based on the account where the gateway is connected 2: Billing is based on the account where the bound number is located 3: Billing is based on the account of the phone card in use
flowNo	M	long	CDR unique identifier

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3.48 Querying Account Details Report

Interface address /external/server/GetReportCustomerFee

Request format

Parameter name	Required type		Description
accounts	M	String []	Account Number List
period	M	int	Statistical period (days) -2: Monthly statistics
beginTime	M	String	Start time Format: yyyyMMdd
endTime	M	String	End Time Format: yyyyMMdd

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoReportCustomerFees O		InfoReportCustomerFee []	Account consumption details record

InfoReportCustomerFee format

Parameter name	Required type		Description
beginTime	M	long	Start time (UTC 1970-01-01 to present) milliseconds)
endTime	M	long	End time (UTC 1970-01-01 to present) milliseconds)
account	M	String	Account Number
accountName	M	String	Account Name
cdrCount	M	long	Total call records
totalFee	M	double	Total cost
totalTime	M	long	Total billing duration (seconds)
totalSuiteFee	M	double	Total package cost
totalSuiteFeeTime	M	long	Total duration of free package (seconds)
netFee	M	double	In-network call charges
netTime	M	long	Intra-network call billing duration (seconds)

Parameter name	Required type		Description
netCount	M	int	Number of intra-network calls
localFee	M	double	Local call charges
localTime	M	long	Local call billing duration (seconds)
localCount	M	int	Number of local calls
domesticFee	M	double	Domestic long-distance charges
domesticTime	M	long	Domestic call billing duration (seconds)
domesticCount	M	int	Number of domestic calls
internationalFee	M	double	International long-distance charges
internationalTime	M	long	International long-distance billing duration (seconds)
internationalCount	M	int	International long-distance number

3.49 Querying Phone Detail Report

Interface address/external/server/GetReportPhoneFee

Request format

Parameter name	Required type		Description
account	M	String	Account Number
e164s	THE	String []	Phone number list
period	M	int	Statistical period (days) -2: Monthly statistics
beginTime	M	String	Start time Format: yyyyMMdd
endTime	M	String	End Time Format: yyyyMMdd

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoReportPhoneFees	THE	InfoReportPhoneFee []	Phone consumption details record

InfoReportPhoneFee format

Parameter name	Required type		Description
beginTime	M	long	Start time (UTC 1970-01-01 to present) milliseconds)
endTime	M	long	End time (UTC 1970-01-01 to present) milliseconds)
e164	M	String	Phone number
calleeBilling	M	int	0: Calling number billing 1: Called party billing
account	M	String	Account Number
accountName	M	String	Account Name
agentAccount	M	String	Agent Account
cdrCount	M	long	Total call records
totalFee	M	double	Total cost

Parameter name	Required type		Description
totalTime	M	long	Total billing duration (seconds)
totalSuiteFee	M	double	Total package cost
totalSuiteFeeTime	M	long	Total duration of free package (seconds)
netFee	M	double	In-network call charges
netTime	M	long	Intra-network call billing duration (seconds)
netCount	M	int	Number of intra-network calls
localFee	M	double	Local call charges
localTime	M	long	Local call billing duration (seconds)
localCount	M	int	Number of local calls
domesticFee	M	double	Domestic long-distance charges
domesticTime	M	long	Domestic call billing duration (seconds)
domesticCount	M	int	Number of domestic calls
internationalFee	M	double	International long-distance charges
internationalTime	M	long	International long-distance billing duration (seconds)
internationalCount	M	int	International long-distance number

3.50 Querying Account Regional Detail Report

Interface address/external/server/GetReportCustomerLocationFee

Request format

Parameter name	Required type		Description
account	M	String	Account Number
areaCode	THE	String	Region prefix
period	M	int	Statistical period (days) -2: Monthly statistics
beginTime	M	String	Start time Format: yyyyMMdd
endTime	M	String	End Time Format: yyyyMMdd

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoReportCustomerLocationFestival	THE	InfoReportCustomerLocationFee []	Account regional consumption details record

InfoReportCustomerLocationFee yy

Parameter name	Required type		Description
beginTime	M	long	Start time (UTC 1970-01-01 to present) milliseconds)
endTime	M	long	End time (UTC 1970-01-01 to present) milliseconds)
areaCode	M	String	Region prefix
areaName	M	String	Region Name
account	M	String	Account Number
accountName	M	String	Account Name
agentAccount	M	String	Agent Account
cdrCount	M	long	Total call records
totalFee	M	double	Total cost

Parameter name	Required type		Description
totalTime	M	long	Total billing duration (seconds)
totalSuiteFee	M	double	Total package cost
totalSuiteFeeTime	M	long	Total duration of free package (seconds)

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3.51 External Billing

Interface address/external/server/CreateCdr

Request format

Parameter name	Required type		Description
billingMode	M	int	<p>Billing Model</p> <p>0: According to callerE164 corresponding to the phone account User billing</p> <p>1: According to the callerGatewayId corresponding docking network The account where the customs is located is charged</p> <p>2: According to the callerE164 corresponding binding number On account billing</p> <p>3: According to callerE164, the corresponding calling card is in use Account billing</p>
account	THE	String	<p>Billing Account</p> <p>Not set: The system will calculate based on billingMode Calculate the corresponding account</p>
callerE164	THE	String	Caller ID
silenceE1	THE	String	called number
callerIp	THE	String	Calling IP
callerGatewayId	THE	String	Caller via gateway
callerProductId	THE	String	Calling device name
callerToGatewayE164	THE	String	Outgoing caller
calleeIp	THE	String	Called IP
callGatewayId	THE	String	Called via gateway
calleeProductId	THE	String	Name of the called device
callToGatewayE164	THE	String	Outgoing call
startTime	THE	Long	<p>Start time (UTC 1970-01-01 to present) milliseconds)</p> <p>Not set: Use the current server time</p>
stopTime	THE	Long	<p>End time (UTC 1970-01-01 to present) milliseconds)</p> <p>Not set: use startTime</p>
billingTime	M	int	<p>Call duration (via calleeE164 corresponding fee The billing duration is calculated based on the billing period of the rate)</p>

Parameter name	Required type		Description
endDirection	THE	Integer	Hang up party 0: Calling 1: called 2: Server
endReason	THE	Integer	Termination reason: Please refer to the "Termination reason" description
flowNo	THE	Long	-1: Automatically generated by the system >=0: Use this value directly as the primary key of the call order. When this value conflicts with the recorded Cdr No record or deduction will be made.

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.52 Query Account Phone Book

Interface address /external/server/GetCustomerPhoneBook

Request format

Parameter name	Required type		Description
account	THE	String	Account Number
e164	THE	String	telephone number

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoCustomerPhoneBooks O		InfoCustomerPhoneBook []	Phone book information

InfoCustomerPhoneBook format

Parameter name	Required type		Description
e164	M	String	telephone number
shortE164s	M	String[]	Short Number List
name	M	String	Name
department	M	String	department
deviceType	M	int	Device Type 0: None 1: Mobile phone 2: Landline 3. IP Telephony
addressType	M	int	Address Type 0: None 1: Office phone number 2: Home phone
type	M	int	Create Type 0: User creation 1: Automatic memory
lastUpdateTime	M	long	Last updated (UTC Milliseconds since 1970-01-01)

Parameter name	Required	Type	Description
memo	M	String	Remark

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3.53 Create Account Phonebook

Interface address /external/server/CreateCustomerPhoneBook

Request format

Parameter name	Required type		Description
account	M	String	Account Number
e164	THE	String	Phone number, when infoCustomerPhoneBookOverWrite If not set, this option is required. infoCustomerPhoneBookOverWrite When setting, if this item is set, it means that you need to change New phone number
infoCustomerPhoneBookOverWrite	THE	InfoCustomerPhoneBookOverWrite	Create or replace the phone book in overwrite mode, Note: If you do not replace the original phone book content, Phone number is required
shortE164s	THE	String[]	Short Number List
name	THE	String	Name
department	THE	String	department
deviceType	THE	Integer	Device Type 0: None (default) 1: Mobile phone 2: Landline 3. IP Telephony
addressType	THE	Integer	Address Type 0: None (default) 1: Office phone number 2: Home phone
type	THE	Integer	Create Type 0: User created (default) 1: Automatic memory
memo	THE	String	Remark

InfoCustomerPhoneBookOverWrite format

Parameter name	Required type		Description
e164	THE	int	Use phone numbers to find existing Phonebook information, cannot be used with shortE164 set up

Parameter name	Required type		Description
shortE164	THE	int	Use short numbers to find existing telephone numbers that may be covered Book Information

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

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3.54 Modify account phone book

Interface address/external/server/ModifyCustomerPhoneBook

Request format

Parameter name	Required type		Description
account	M	String	Account Number
e164	M	String	telephone number
newE164	THE	String	New phone number
shortE164s	THE	String[]	Short Number List
name	THE	String	Name
department	THE	String	department
deviceType	THE	Integer	Device Type 0: None (default) 1: Mobile phone 2: Landline 3: IP Telephony
addressType	THE	Integer	Address Type 0: None (default) 1: Office phone number 2: Home phone
type	THE	Integer	Create Type 0: User created (default) 1: Automatic memory
memo	THE	String	Remark

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.55 Deleting an Account Phonebook

Interface address/external/server/DeleteCustomerPhoneBook

Request format

Parameter name	Required type		Description
account	M	String	Account Number
e164s	M	String[]	Phone number list

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.56 Querying the Softswitch

Interface address/external/server/GetSoftSwitch

Request format

Parameter name	Required type		Description
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Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoSoftSwitches	THE	InfoSoftSwitch []	Softswitch Information

InfoSoftSwitch format

Parameter name	Required type		Description
name	M	String	Softswitch access name
identification	M	String	Softswitch ID
createTime	M	long	Creation time (UTC 1970-01-01 to present) milliseconds)
accessTime	THE	Long	Access time (UTC 1970-01-01 to present) milliseconds)
accessAddress	THE	String	Access Address
memo	M	String	Remark

3.57 Query Performance

Interface address/external/server/GetPerformance

Request format

Parameter name	Required type		Description
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Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoPerformance	THE	InfoPerformance	Performance Information

InfoPerformance format

Parameter name	Required type		Description
callSize	M	int	Concurrency
cdrQueueSize	M	int	CDR queue length

3.58 Phone Card Recharge

Interface address/external/server/PayByPhoneCard

Request format

Parameter name	Required type		Description
ownerName	M	String	Recharge object name
ownerType	M	int	Recharge object name type 2: Account 6: Platform Phone 11: Phone card number in use 25: Bind number 44: Docking Gateway
pin	M	String	Phone card number
password	THE	String	Phone card password Note: If not set, only the card number will be verified.
memo	THE	String	Recharge Notes

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoPay	THE	InfoPay	Payment history

3.59 Phone Card Activation

Interface address/external/server/PhoneCardActive

Request format

Parameter name	Required type		Description
pin	M	String	Recharge card number
password	THE	String	Recharge card password Note: If not set, only the card number will be verified.
bindedE164	THE	String	Bind number

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.60 Callback

Interface address/external/server/CallBack

Request format

Parameter name	Required type		Description
callerE164	M	String	Caller (entered by user on the Web)
callerDisplayNumber	THE	String	Caller ID number If not set, the system default mode is used.
calleeE164s	M	String	Called (the platform is set according to the enterprise requirements, Set multiple values separated by ,
accessE164	M	String	Access number (phone number where the process is located)
accessE164Password	M	String	Access number password (password for the phone where the process is located)
callbackBillingE164	THE	String	Call back billing number, used when not set callerE164 parameter value
callbackBillingPassword O		String	Callback billing password
calloutBillingE164	THE	String	Outbound call billing number, used when not set callerE164 parameter value
calloutBillingPassword	THE	String	Outbound call billing password
calloutDisplayInFrom	THE	String	Display number set in Invite
transactionId	THE	String	Submit the identification code for this request and subsequent Status notification and call record correspondence Character value range A to Z, a to z, 0 to 9, and -, _

Supplementary Notes

The callback service determines the voice service to be used according to accessE164. Before using the callback service, you need to correctly configure accessE164 corresponding phone. When the access password, call back billing password, and outbound call billing password are set, you need to verify whether the password of the corresponding number is correct. Correct. Please do not open this interface directly to end users. End users directly submitting to this interface will cause the password to be in plain text on the network transmission, thus causing security issues.

ÿ Voice service callback billing method

第一路计费方式 接入号对应话机 When calling back, use accessE164 to access the phone account.

Billing

第一路计费方式 绑定号码|在用电话卡|平台话机|接入号对应话机 When the billing account is searched in the following order

- callbackBillingE164 corresponds to the account bound to the number

- callbackBillingE164 corresponds to the account of the calling card number in use

- callbackBillingE164 corresponds to the platform phone account

- accessE164 corresponds to the platform phone account

ÿ 第一路计费方式 在用电话卡 When the billing account is searched in the following order

- callbackBillingE164 corresponds to the account bound to the number

- callbackBillingE164 corresponds to the account of the calling card number in use

ÿ 第一路计费方式 平台话机 When calling back, use

callbackBillingE164 Billing the corresponding phone account

ÿ Second channel for voice services

ÿ 计费方式 接入号对应话机 When calling back, the corresponding phone account of accessE164 is used for billing.

ÿ 计费方式 在用电话卡 When the billing account is searched in the following order

- calloutBillingE164 corresponds to the account bound to the number

- calloutBillingE164 corresponds to the account of the calling card number in use

ÿ 计费方式 平台话机 When calling back, calloutBillingE164 is used to charge the corresponding phone account.

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
transactionId	THE	String	Same as request transactionId of CallStateReport Consistency
callIdentifier	THE	String	A-way call unique identifier and CallStateReport's callIdentifier Consistency The prefix of route B is the same as that of route A, only the last digit is different. Increment

3.61 Playing Voice

Interface address/external/server/PlayAudio

Request format

Parameter name	Required type		Description
audioes	M	String	A list of audio file names (separated by commas) multiple file names)
language	THE	String	By default, accessE164 is used for voice flow. Language
callerDisplayNumber	THE	String	Caller ID number If not set, the system default mode is used.
silence	M	String	called number
accessE164	M	String	Access number (phone number where the process is located)
accessE164Password	M	String	Access number password (password for the phone where the process is located)
billingNumber	THE	String	Billing number
billingNumberType	THE	Integer	Billing number type 0: According to the billingNumber corresponding to the phone location Account billing 2: According to the billingNumber corresponding binding number Account billing 3: According to the billingNumber corresponding to the phone number in use The card account is billed
transactionId	THE	String	Submit the identification code for this request and subsequent Status notification and call record correspondence Character value range A to Z, a to z, 0 to 9, and -, _

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
transactionId	THE	String	Same as request transactionId of CallStateReport Consistency

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Operation

Parameter name	Required type		Description
callIdentifier	THE	String	Call unique identifier and CallStateReport's callIdentifier Consistency

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3.62 Obtaining Available Talk Time

Interface address/external/server/GetAvailableTime

Request format

Parameter name	Required type		Description
billingName	M	String	Billing calling name
billingMode	M	int	Billing call type 0: Platform phone 1: Connect to the gateway 2: Bind number 3: Phone card number 4: First find the account based on the phone card number. Find the account according to the docking gateway
silenceE1	M	String	called number
streetEndPointType	THE	Integer	Device to which the called number is delivered 0: Platform phone 1: Landing Gateway (When it is a platform phone, the called number can be judged Determine whether it is in the special service number, so as to avoid billing)
routingGateway	THE	String	Landing gateway name
callToGatewayE164	THE	String	Number after landing gateway dialing plan (Used with routingGateway, When the landing gateway needs to verify the settlement account balance (The parameter is valid when

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
InfoAvailableTime	THE	InfoAvailableTime	Available time information

InfoAvailableTime format

Parameter name	Required type		Description
account	THE	String	Account number
accountName	THE	String	Account Name

Parameter name	Required type		Description
accountMoney	THE	Double	Account balance (excluding bonus in package) <small>Forehead)</small>
timeRemain	M	int	>0: indicates the number of seconds available for talk <0: Reason for call failure, please refer to the termination reason <small>Due to documentation</small>
timeRemainRoutingGatew is	THE	Integer	>0: Indicates the number of seconds the landing gateway can talk. <0: The reason why the landing gateway cannot communicate, please refer to Termination reason document

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3.63 Get the available call time of the second IVR channel

Interface address/external/server/GetIvrSecondAvailableTime

Request format

Parameter name	Required type		Description
billingNumber	M	String	Billing calling number
billingType	M	int	Billing call type 0: The access number corresponds to the phone 1: Using a calling card 2: Automatic, the matching order is bound number, phone number Calling card number, platform phone number 3: Caller ID corresponds to the phone
silenceE1	M	String	called number
accessE164	THE	String	Access Number When this value is set, the calling account and access The account has a common traffic-based billing No agent account or respective agent account Traffic billing mode.
mergeBillingType	THE	Integer	Superimposed billing method 0: No superposition 1: Add the access number to the second channel 2: Add the calling number to the second line
mergeE164	THE	String	Billing number to be superimposed
firstE164	M	String	The called number of the first line
firstConnectTime		long	Time of first connection (UTC Milliseconds since 1970-01-01)
firstStopTime		long	The time that has been completed for the first route to be calculated (Milliseconds since UTC 1970-01-01)

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoIvrSecondAvailableTime	THE	InfoIvrSecondAvailableTime	Available time information

InfoIvrSecondAvailableTime format

Parameter name	Required type		Description
account	THE	String	Account number
accountName	THE	String	Account Name
accountMoney	THE	Double	Account balance (excluding bonus in package) Forehead)
timeRemain	M	int	>0: indicates the number of seconds available for talk <0: Reason for call failure, please refer to the termination reason Due to documentation

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3.64 Query other income records

Interface address/external/server/GetConsumption

Request format

Parameter name	Required type		Description
account	THE	String	Account number (when agentAccount is not set) This parameter must be set
agentAccount	THE	String	Agent account number (when account is not set) This parameter must be set
beginTime	M	String	Start time Format:yyyyMMddHHmmss
endTime	M	String	End Time Format:yyyyMMddHHmmss

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoConsumptions	THE	InfoConsumption []	Other income records

InfoConsumption format

Parameter name	Required type		Description
account	M	String	Account Number
money	M	double	Consumption amount
customerMoney	M	double	Account balance
type	M	int	type 0:Package rental 1: Phone monthly rental 2: The minimum phone consumption is insufficient 3: The minimum consumption of the package is insufficient
consumptionName	M	int	Consumption Source
time	M	long	Time (milliseconds since UTC 1970-01-01) Number)

3.65 Get all account numbers

Interface address /external/server/GetAllCustomers

Request format

Parameter name	Required type		Description
type	THE	int	Get content mode, not setting is equivalent to setting 0 same 0: Get accounts 1: Get infoCustomerBriefs

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
accounts	THE	String []	Account Number List
infoCustomerBriefs	THE	InfoCustomerBrief[]	Account brief information list

InfoCustomerBrief format

Parameter name	Required type		Description
account	M	String	Account Name
money	M	double	Account balance
limitMoney	M	double	Overdraft limit

3.66 Semi-direct dial reservation called number

Interface address/external/server/ReserveCalleeE164

Request format

Parameter name	Required type		Description
callerE164	M	String	Caller ID
silenceE1	M	String	Called number
accessE164	M	String	Access number (phone number where the process is located)
accessE164Password	M	String	Access number password (password for the phone where the process is located)

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.67 Creating a Number Group

Interface address/external/server/CreateLimitE164Group

Request format

Parameter name	Required type		Description
name	M	String	Number group name (unique and visible logo)
memo	THE	String	Remarks

Return format

Parameter name	Required type		Description
retCode	M int		Return code
exception	THE	String	Cause of the error

3.68 Modify Number Group

Interface address/external/server/ModifyLimitE164Group

Request format

Parameter name	Required type		Description
name	M	String	Number group name (unique and visible logo)
memo	THE	String	Remarks

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.69 Deleting a Number Group

Interface address/external/server/DeleteLimitE164Group

Request format

Parameter name	Required type		Description
name	M	String	Number group name (unique and visible logo)

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.70 Query Number Group

Interface address/external/server/GetLimitE164Group

Request format

Parameter name	Required type		Description
names	THE	String[]	Number group list; supports multiple numbers, separated by commas

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
infoLimitE164Groups	THE	infoLimitE164Group[]	Number group information

infoLimitE164Group format

Parameter name	Required type		Description
name	THE	String	Number group name
memo	THE	String	Number group notes

3.71 Creating a Number Group

Interface address/external/server/CreateLimitE164

Request format

Parameter name	Required type		Description
limitE164GroupName	M	String	Number group name
infoLimitE164s	M	InfoLimitE164 []	Number group number list

InfoLimitE164 format

Parameter name	Required type		Description
e164	M	String	Number
memo	THE	String	Remark

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.72 Deleting a Number Group Number

Interface address/external/server/DeleteLimitE164

Request format

Parameter name	Required type		Description
limitE164GroupName M		String	Number group name
e164s	M	String []	Number group number list

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.73 Query Number Group Number

Interface address/external/server/GetLimitE164

Request format

Parameter name	Required type		Description
limitE164GroupName M		String	Number group name (unique and visible logo)
e164	THE	String	Number; supports multiple numbers, separated by commas

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoLimitE164s	THE	infoLimitE164[]	Specific information under the number group

infoLimitE164 format

Parameter name	Required type		Description
e164	THE	String	Number
memo	THE	String	Remarks

3.74 Creating Ivr Voice

Interface address/external/server/CreteIvrAudio

Request format

Parameter name	Required type		Description
type	M	int	Voice Type 0: Public Voice 1: Built-in voice 2: Ringback tone voice 3: Enterprise switchboard voice 4: Call back direct dial voice 5: Value-added service voice 6: Alarm voice 7: Voicemail
name	M	String	Voice Name
language	THE	String	language
ivrServiceName	THE	String	Process name
memo	THE	String	Remark

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
id	THE	Integer	Voice Identification

3.75 Modify Ivr voice

Interface address/external/server/ModifyIvrAudio

Request format

Parameter name	Required type		Description
id	M	int	Voice Identification
language	THE	String	language
ivrServiceName	THE	String	Process name
memo	THE	String	Remark

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.76 Delete Ivr voice

Interface address/external/server/DeletelvrAudio

Request format

Parameter name	Required type		Description
id	M	int	Voice Identification

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

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3.77 Get Ivr Voice

Interface address/external/server/GetIvrAudio

Request format

Parameter name	Required type		Description
type	THE	Integer	Voice type (or ids) 0: Public Voice 1: Built-in voice 2: Ringback tone voice 3: Enterprise switchboard voice 4: Call back direct dial voice 5: Value-added service voice 6: Alarm voice 7: Voicemail
ids	THE	int []	Voice Marker List

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infolvrAudios	THE	InfolvrAudio []	Voice message list

InfolvrAudio format

Parameter name	Required type		Description
id	M	int	Voice Identification
type	M	int	Voice Type 0: Public Voice 1: Built-in voice 2: Ringback tone voice 3: Enterprise switchboard voice 4: Call back direct dial voice 5: Value-added service voice 6: Alarm voice 7: Voicemail
name	M	String	Voice Name

Parameter name	Required type		Description
language	M	String	language
ivrServiceName	M	String	Process name
size		int	Voice storage size
memo	M	String	Remark

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3.78 Modify Ivr voice data

Interface address/external/server/ModifyIvrAudioData

Request format

Parameter name	Required type		Description
id	M	int	Voice Identification
data	M	String	wav file information, the byte stream needs to be converted to Hexadecimal string (e.g. byte value 128 corresponds to The character string "80" corresponds to the byte value 0 The string "00", byte value 255 corresponds to the string "FF" File Format: PCM_SIGNED 8000.0 Hz, 16 bit, mono, 2 bytes/frame, little-endian

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.79 Creating a Number Alternation Table

Interface address/external/server/CreateE164Convert

Request format

Parameter name	Required type		Description
mappingGatewayCallerE164	M	String	Incoming caller number of the gateway
e164	M	String	telephone number
routingGatewayCalleeE164	M	String	The ground gateway calls the called number
memo	M	String	Remark

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
id	THE	Integer	Unique identifier

3.80 Modify the number conversion table

Interface address/external/server/ModifyE164Convert

Request format

Parameter name	Required type		Description
id	M	int	Unique identifier
mappingGatewayCallerE164	THE	String	Incoming caller number of the gateway
routingGatewayCalleeE164	THE	String	The ground gateway calls the called number
memo	THE	String	Remark

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.81 Deleting the Number Change Table

Interface address/external/server/DeleteE164Convert

Request format

Parameter name	Required type		Description
id	M	int	Unique identifier

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

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3.82 Call interruption

Interface address/external/server/DisconnectCurrentCall

Request format

Parameter name	Required type		Description
callIds	M	int []	A list of unique call identifiers in the softswitch. Please refer to the query for the callId returned by the current call.

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.83 Get all online phones

Interface address/external/server/GetAllPhoneOnline

Request format

Parameter name	Required type		Description
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Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
e164s	THE	String[]	The phone numbers of all online phones

3.84 Query Phone Card

Interface address/external/server/GetPhoneCard

Request format

Parameter name	Required type		Description
pin	M	String	card number
password	THE	String	password

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoPhoneCard	THE	InfoPhoneCard	Phone card information

InfoPhoneCard format

Parameter name	Required type		Description
money	M	double	Start time (UTC 1970-01-01 to present) milliseconds
limitMoney	M	double	Overdraft limit
bitsOfConfig	M	int	Card function type 1<<1: Allowed for account opening 1<<2: Open an account and create a calling card in use 1<<3: Open an account and create a platform phone 1<<4: Allowed for recharge 1<<5: Replace account rate when recharging 1<<6: Add the package to the account order when recharging 1<<7: Card value is added to account balance
feeRateGroup	M	String	Rate Group Name
expireTime	M	long	Expiration time (UTC 1970-01-01 to present) milliseconds
usedTime	THE	Long	Elapsed time (UTC 1970-01-01 to present) milliseconds Not set: Not used
usedAccount	THE	String	Used account
agentAccount	M	String	Agent Account

Parameter name	Required type		Description
suiteNames	M	String []	Package Name List
memo	M	String	Remarks

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3.85 Creating an Alarm

Interface address/external/server/CreateAlarm

Request format

Parameter name	Required type		Description
name	M	String	Alarm Name
level		int	Alarm level 0: General 1: Secondary 2: Main 3: Emergency
value	THE	Double	Default value: 0x7ffffff (32-bit integer)
alarmInfo	THE	String	Alarm Information
startTime	THE	Long	Alarm occurrence time (UTC 1970-01-01 to Today's milliseconds)
stopTime	THE	Long	Alarm end time (UTC 1970-01-01 to Today's milliseconds)
upper	THE	Double	Upper threshold Value range: 0x80000000y0x7ffffff (32-bit integer)
lower	THE	Double	Lower threshold: 0x80000000y0x7ffffff (32-bit integer)

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.86 Creating a Geofence

Interface address/external/server/CreateIpLimit

Request format

Parameter name	Required type		Description
area	THE	String	Region Name
ip	M	String	Starting IP address (please follow the ipv4 format. 1.1.1.1ÿ
count	THE	int	Total number of IP segments starting from the starting IP
memo	THE	String	Remark

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.87 Deleting a Geofence

Interface address/external/server/Delete IpLimit

Request format

Parameter name	Required type		Description
ips	M	String	Delete the IP segment corresponding to the starting IP

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.88 Get current alarms

Interface address/external/server/GetAlarmCurrent

Request format

Parameter name	Required type		Description
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Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoAlarmCurrents	THE	InfoAlarmCurrent	Current alarm list

InfoAlarmCurrent format

Parameter name	Required type		Description
id	M	int	Alarm unique identifier

Parameter name	Required type		Description
type	M	int	Alarm Type 20000: Landing Gateway ASR 20001: Landing Gateway ACD 20002: Landing gateway concurrency decreases 20003: CPU utilization 20004: Memory usage 20005: Hard Drive 20006: Pending CDR 20007: Account Balance 20009: Receive packet rate 20010: receiving data traffic 20011: Packet sending rate 20012: Sending data traffic 20013: Connecting to Gateway ASR 20014: Docking Gateway ACD 20015: Gateway concurrency decreases 20016: Call duration 20017: Database 20018: Process terminated 20019: Standby machine activated 20020: Illegal call 20021: Clock deviation 20022: Landing gateway concurrency increases 20023: Gateway concurrency increases 20026: Login MAC is restricted 20027: Host database service 20028: Backup database service
level	M	int	Alarm level 0: General 1: Secondary 2: Main 3: Emergency
name	M	String	Alarm Name
startTime	M	long	Alarm start time (Milliseconds since UTC 1970-01-01)
stopTime	THE	Long	Alarm end time (Milliseconds since UTC 1970-01-01)

Parameter name	Required type		Description
value	M	double	Alarm value
upper	THE	Double	Upper limit of the alarm threshold
lower	THE	Double	Lower alarm threshold
confirmUser	THE	String	Alarm confirmation user
confirmTime	THE	Long	Alarm confirmation time (Milliseconds since UTC 1970-01-01)
memo	M	String	Alarm Notes

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3.89 IVR disconnects call

Interface address/external/server/DisconnectIvrCall

Request format

Parameter name	Required type		Description
callIdentifiers	M	String []	IVR Caller ID List

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

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3.90 Creating a Mobile Region

Interface address/external/server/CreateMobileArea

When mobilePrefix conflicts with existing information, the system will overwrite the original data with the current data.

Request format

Parameter name	Required type		Description
infoMobileAreas	M	InfoMobileArea []	Mobile phone region information list

InfoMobileArea format

Parameter name	Required type		Description
mobilePrefix	M	String	Mobile phone prefix (must be 7 digits) Example: 1300000
areaCode	M	String	Area Code Beijing area code example: 10
areaName	THE	String	Region Name
memo	THE	String	Remark

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.91 Delete mobile region

Interface address/external/server/DeleteMobileArea

Request format

Parameter name	Required type		Description
mobilePrefixes	M	String []	Mobile prefix list

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error

3.92 Get the mobile phone region

Interface address/external/server/GetMobileArea

Request format

Parameter name	Required type		Description
mobilePrefix	THE	String	Mobile phone prefix Not set: Get all mobile phone regions

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
infoMobileAreas	THE	InfoMobileArea []	For mobile region information, see Create a mobile region.

4

External Request

The system uses HTTP+JSON for external requests, and the address to which the external request is submitted and the suffix name of the interface page can be configured.

4.1 External Request Configuration

Step 1: Fill in the push address parameters in /home/kunshi/vos3000/etc/server.conf

OUT_POST_URL

Step 2: Reload the configuration

vos3000d reload

Step 3: Enable the function

参数名称	参数值	
EXTERNAL_CUSTOMER_MONEY_REPORT	关闭	接口:账户余额改变通知
EXTERNAL_WEB_ALARM_CURRENT	关闭	接口:当前告警通知
EXTERNAL_WEB_SEND_PHONE_ONLINE	关闭	接口:话机上线/离线传送

4.2 IVR Requests External Data to Control Voice Process

Interface page: PushDtmfInfo

Request format

Parameter name	Required type		Description
flowNo	M	long	Unique identifier of this call
callerE164	M	String	Caller ID
silenceE1	M	String	called number
accessE164	M	String	Access Number
menuName	M	String	Menu Name

Parameter name	Required type		Description
dtmf	M	String	Customer keystroke information

Return format

Parameter name	Required type		Description
retCode	M	int	Return code (defined by external system, system root Execute the subsequent process according to the return code. If it is received Execute if information is returned or no subsequent process is specified Default process)
exception	THE	String	Cause of the error
audioNames	THE	String []	Voice parameter list

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4.3 IVR Requests External Data to Control Voice Process 2

Interface page: PushDtmfInfos

Request format

Parameter name	Required type		Description
flowNo	M	long	Unique identifier of this call
callerE164	M	String	Caller ID
silenceE1	M	String	called number
accessE164	M	String	Access Number
infoDtmfs	M	InfoDtmf []	Menu button information

InfoDtmf format

Parameter name	Required type		Description
menuName	M	String	Menu Name
dtmf	M	String	Customer keystroke information

Return format

Parameter name	Required type		Description
retCode	M	int	Return code (defined by external system, system root Execute the subsequent process according to the return code. If it is received Execute if information is returned or no subsequent process is specified Default process)
exception	THE	String	Cause of the error
audioNames	THE	String []	Voice parameter list

4.4 Platform phone online and offline notification

Interface page:PhoneOnline

Request format

Parameter name	Required type		Description
e164	M	String	Phone number
dids	M	String[]	One phone, multiple numbers list
online	M	boolean	true: the phone is online false: The phone is offline
eventTime	M	long	Event generation time (Milliseconds since UTC 1970-01-01)
localIp	M	String	Server local IP
localPort	M	int	Server local port
remoteIp	M	String	Remote IP
productId	M	String	Device Name

Return format

Parameter name	Required type		Description
retCode	M	int	Return code

4.5 Call Status Notification

Interface page: CallStateReport

Request format

Parameter name	Required type		Description
callId	M	int	Call unique identifier
callState	M	int	Call Status -1: Call initialization (Setup) -2: Call Proceeding -3: Call connecting (CallProceeding(RTP)) -4: Call connecting (Progress) -5: Alerting -6: Connect -7: Call initialization (Invite) -8: Call connecting (Trying) -9: Call connection in progress (SessionProgress) -10: Call connecting (SessionProgress(SDP)) -11: Ringing -12: Connect (Ok) -13: Release -18: The call is being authenticated, i.e., it has not yet been sent to the called party. direction.
eventTime	M	long	Event generation time (Milliseconds since UTC 1970-01-01)
callerE164	M	String	Caller ID
silenceE1	M	String	called number
callerGatewayId	THE	String	Calling gateway name
callGatewayId	THE	String	Name of the called gateway
callerIp	M	String	Calling IP
calleep	M	String	Called IP
callerLocalIp	M	String	Local IP address of the calling party
calleeLocalIp	M	String	Local IP address of the called party
transactionId	THE	String	

Parameter name	Required type		Description
callIdentifier	M	String	Calling SIP header field Call-ID

Return format

Parameter name	Required type		Description
retCode	M	int	Return code

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4.6 Account Balance Changes

Only triggered by account recharge and non-call bill deduction

Interface page:CustomerMoneyChange

Request format

Parameter name	Required type		Description
account	M	String	Account Number
money	M	double	Current account balance

Return format

Parameter name	Required type		Description
retCode	M	int	Return code

4.7 Current Alarm Notification

Interface page: AlarmCurrentReport

Request format

Parameter name	Required type		Description
infoAlarmCurrents	M	InfoAlarmCurrent []	Current alarm list, structure definition see "Get current alarm"

Return format

Parameter name	Required type		Description
retCode	M	int	Return code

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Additional optional interfaces

5.1 Playing Voice

Interface address/external/server/PlayAudio

Request format

Parameter name	Required type		Description
audioes	M	String	A list of audio file names (separated by commas) multiple file names)
language	THE	String	By default, accessE164 is used for voice flow. Language
callerDisplayNumber	THE	String	Caller ID number If not set, the system default mode is used.
silence	M	String	called number
accessE164	M	String	Access number (phone number where the process is located)
accessE164Password	M	String	Access number password (password for the phone where the process is located)
billingNumber	THE	String	Billing number
billingNumberType	THE	Integer	Billing number type 0: According to the billingNumber corresponding to the phone On account billing 2: According to the billingNumber corresponding binding number The account where the code is located is charged 3: According to billingNumber corresponding to the electricity consumption The account where the phone card is located is used for billing
transactionId	THE	String	Submit the identification code for this request and subsequent Status notification and call record correspondence Character value range A to Z, a to z, 0 to 9, and -, _

Return format

Parameter name	Required type		Description
retCode	M	int	Return code
exception	THE	String	Cause of the error
transactionId	THE	String	Same as request transactionId of CallStateReport <small>Consistency</small>
callIdentifier	THE	String	Call unique identifier and CallStateReport's callIdentifier <small>Consistency</small>