

# **VOS3000 Web Interface For Third Party**

Version 2.1.8.0

Kunshi Network Technology Co., Ltd.  
[www.linknat.com](http://www.linknat.com)

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## 1 Descriptions

This document describes the interface of VOS3000 for third party developers. Interfaces described in this document and the final interpretation of the copyright belongs to Kunshi Network Technology Co., Ltd. Any third party need to get permission from Kunshi.

Defined in JSON, use "UTF-8".

Use POST to submit to VOS Web Service.

For return code, use 0 for success, non 0 for failed, e.g. {"retCode":-10007,"exception":"Not found, operation failed."}

HTML head, Content-Type use "text/html; charset=UTF-8".

After install, edit /home/kunshiweb/base/apache-tomcat-7.0.23/conf/Catalina/localhost/external.xml to set access IP, separate by |.

Web interface field attribute: "Required", must contain this parameter; "Optional", default value will be used if not set this parameter; empty means this parameter is invalid.

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## 2Receive Request

### 2.1Create Customer

<http://VOSIP/external/server/CreateCustomer>

#### Request Format

Parameter	M/O	Type	Length	Description
account	M	String	64	Account Number
name	O	String	64	Account Name
money	O	Double		For Create Account Only Default: 0
limitMoney	O	Double		Overdraft Limit Default: 0
feeRateGroup	O	String	64	Billing Fee Rate Group Name (Do not support "Use Lower Rate")
type	O	Integer		Account Type 0: General Account 1: Phone Card 2: Clearing Account Default: 0
lockType	O	Integer		Lock Type 0: Normal 1: Locked Default: 0
agentAccount	O	String	64	Agent
phoneBookLimit	O	Integer		Phone Book Number Limit Default: 0
validTime	O	Long		Account Valid Time (UTC Time) Default: 0 (Set by System Parameter)

memo	O	String	255	Memo
infoCustomerAdditional	O	InfoCustomerAdditional		Additional Information

#### InfoCustomerAdditional Format

Parameter	M/O	Type	Length	Description
cardType	O	Integer		Certification Type 0: ID Card 1: Passport 2: Officer ID 3: Employee ID 4: Student ID 5: Others Default: 0
cardNumber	O	String		Certification Number
address	O	String		Detailed Address
postCode	O	String		Post Code
linkMan	O	String		Contact
telephone	O	String		Phone Number
fax	O	String		Fax
email	O	String		Email
emailCc	O	String		CC
emailBcc	O	String		BCC
reportType	O	Integer		Report Sending Type 0: None 1: Daily 2: Weekly 3: Monthly Default: 0
companyName	O	String		Company Name
bank	O	String		Bank Account

#### Response Format

Parameter	M/O	Type	Length	Description
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retCode	M	Integer		Response Code
exception	O	String		Error Information



## 2.2Modify Customer

<http://VOSIP/external/server/ModifyCustomer>

### Request Format

Parameter	M/O	Type	Length	Description
account	M	String	64	Account Number
name	O	String	64	Account Name
limitMoney	O	Double		Overdraft Limit Default: 0
feeRateGroup	O	String	64	Billing Fee Rate Group Name (Do not support "Use Lower Rate")
type	O	Integer		Account Type 0: General Account 1: Phone Card 2: Clearing Account Default: 0
lockType	O	Integer		Lock Type 0: Normal 1: Locked Default: 0
agentAccount	O	String	64	Agent
phoneBookLimit	O	Integer		Phone Book Number Limit Default: 0
validTime	O	Long		Account Valid Time (UTC Time) Default: 0 (Set by System Parameter)
memo	O	String	255	Memo
infoCustomerAdditional	O	InfoCustomerAdditional		Additional Information

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### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

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## 2.3Delete Customer

<http://VOSIP/external/server/DeleteCustomer>

### Request Format

Parameter	M/O	Type	Length	Description
account	M	String	64	Account Number

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

## 2.4Get Customer

<http://VOSIP/external/server/GetCustomer>

### Request Format

Parameter	M/O	Type	Length	Description
accounts	O	String[]		Account List
e164s	O	String[]		E164 List

One of parameters is needed at least.

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoCustomers	O	InfoCustomer[]		Customer Information

### InfoCustomer Format

Parameter	M/O	Type	Length	Description
account	M	String	64	Account Number
name	M	String	64	Account Name
money	M	double		Balance
limitMoney	M	double		Over Draft
feeRateGroup	M	String	64	Billing Fee Rate Blank: no fee rate group
type	M	Integer		Account Type 0: General Account 1: Phone Card 2: Clearing Account
lockType	M	Integer		Lock Type 0: Normal 1: Locked
agentAccount	M	String	64	Agent Account Blank: no agent

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phoneBookLimit	M	Integer		Phone Book Number Limit
startTime	M	Long		Customer Create Time
validTime	M	Long		Customer Expire Time
todayConsumption	M	double		Today Consumption
memo	M	String	255	Memo
infoCustomerAdditional	M	InfoCustomerAdditional		Customer Additional Information

## 2.5 Create Phone

<http://VOSIP/external/server/CreatePhone>

### Request Format

Parameter	M/O	Type	Length	Description
autoCreateAccount	M	Boolean		Create Phone and Account
e164	M	String	64	Phone Number
password	O	String	32	Phone Password
displayNumber	O	String	64	Display Number
lockType	O	Integer		Lock Type 0: No Lock 1: Lock Call Out 2: Lock Call In 3: Lock All
callLevel	O	Integer		Call Level 1: Net 2: Local 4: Domestic 5: International
feerateGroup	O	String	255	Fee Rate Group
monthlyMoneyMinimum	O	Double		Monthly Minimum Consumption
monthlyMoneyMaximum	O	Double		Monthly Maximum Consumption
monthlyRentFee	O	Double		Monthly Rent Fee
rewriteRulesOutCallee	O	String	65535	Call Out Callee Rewrite Rule
rewriteRulesInCallee	O	String	65535	Call In Callee Rewrite Rule
rewriteRulesInCaller	O	String	65535	Call In Caller Rewrite Rule
routingGatewayGroupsAllow	O	Boolean		true: Allow Selected Gateway Group false: Forbidden Selected

				Gateway Group
routingGatewayGroups	O	String	255	Routing Gateway Group Name Blank for All
account	O	String	64	Phone's Account
equipment	O	String	64	Phone's Soft Switch Blank for All
calleeBilling	O	Boolean		true: Enable false: Disable
customerPassword	O	String	32	Web Query Password
lineCallIn	O	Integer		Call In Number Limit
lineCallOut	O	Integer		Call Out Number Limit
lineCapacity	O	Integer		Total Number Limit
phonebookLimit	O	Integer		Phone Book Number Limit
callerLimitE164GroupsAllow	O	Boolean		true: Allow Selected Caller Group false: Forbidden Selected Caller Group
callerLimitE164Groups	O	String	255	Caller Limit E164 Groups Blank for All
calleeLimitE164Allow	O	Boolean		true: Allow Selected Callee Group false: Forbidden Selected Callee Group
calleeLimitE164Groups	O	String	255	Callee Limit E164 Groups Blank for All
memo	O	String	255	Memo
infoPhoneValueAdded	O	InfoPhoneValueAdded		Value Added Settings
infoPhoneAdditional	O	InfoPhoneAdditional		Additional Settings

InfoPhoneValueAdded Format

Parameter	M/O	Type	Length	Description
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callerIdDisplay	O	Boolean		true: Enable false: Disable
callTransfer	O	Boolean		true: Enable false: Disable
doNotDisturb	O	Boolean		true: Enable false: Disable
periodForwarding	O	Boolean		true: Enable false: Disable
infoPhoneValueAddedPeriodForwardings	O	InfoPhoneValueAddedPeriodForwarding[]		Period Forward Settings
unconditionalForward	O	Boolean		true: Enable false: Disable
unconditionalForwardE164	O	InfoPhoneValueAddedForwardE164		Unconditional Forward Settings
noAnswerForward	O	Boolean		true: Enable false: Disable
noAnswerForwardE164	O	InfoPhoneValueAddedForwardE164		No Answer Forward Settings
offlineForward	O	Boolean		true: Enable false: Disable
offlineForwardE164	O	InfoPhoneValueAddedForwardE164		Off Line Forward Settings
busyForward	O	Boolean		true: Enable false: Disable
busyForwardE164	O	InfoPhoneValueAddedForwardE164		Busy Forward Settings
colorRing	O	Boolean		true: Enable false: Disable
remoteColorRingPassthrough	O	Boolean		true: Enable false: Disable
colorRingName	O	String	64	Color Ring Name
unableToConnectVoicePrompts	O	Integer		Prompt for Unable Connect 0: Default



				1: On 2: Off
callRemainingTimePrompts	O	Integer		Prompt for Remain Time 0: Default 1: On 2: Off
balanceNotEnoughAlarm	O	Integer		Prompt for Balance 0: Default 1: Money Left 2: Time Left 3: Off
voiceMail	O	Boolean		true: Enable false: Disable
voiceMailCheckPassword	O	Boolean		true: Enable false: Disable
voiceMailMaxNumber	O	Integer		Voice Mail Number -1: Set by System Parameter
voiceMailExpireDay	O	Integer		Voice Mail Expire Day -1: Set by System Parameter
voiceMailAudioType	O	Integer		0: Default 1: Customized

InfoPhoneValueAddedPeriodForwarding Format

Parameter	M/O	Type	Length	Description
weekOfDay	O	String	32	0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday

---

				Blank: 0,1,2,3,4,5,6
beginSecondInDay	O	Integer		Start Time (Seconds from 0:00) Default: 0 Range: 0-86400
endSecondInDay	O	Integer		Stop Time (Seconds from 0:00) Default: 0 Range: 0-86400
forwardE164	O	InfoPhoneValueAddedForwardE164		Forward E164 Settings

InfoPhoneValueAddedForwardE164 Format

Parameter	M/O	Type	Length	Description
forwardMethod	O	Integer		Forwarding Mode 0: Sequence 1: Poll 3: Random Default: 0
alertSecond	O	Integer		Ringing Duration Unit: Seconds, no use for last number. Default: -1, use default value
e164	O	String	255	Forward Number, use comma to separate

InfoPhoneAdditional Format

Parameter	M/O	Type	Length	Description
registerType	O	Integer		Register Type 0: Static 1: Dynamic 2: Mapping Gateway

protocol	O	Integer		Protocol 0: H323 1: SIP
ip	O	String	32	IP for Static Register
port	O	Integer		Port for Static Register
localIp	O	String		Local IP for Static Register
rtpRelay	O	Integer		Media Proxy 0: Auto 1: Enable 2: Disable Default: 0
rtpInterruptDetection	O	Integer		RTP Interrupt Detection Mode 0: No Detect 1: Detect whether VOS has sent RTP to Remote 2: Detect whether VOS has received Remote RTP 3: Detect Both Side's RTP Default: 0
callDurationLimit	O	Integer		Conversation Limitation, Unit: Seconds -1: Use System Parameter 0: No limit Default: -1
callTransferBillingMethod	O	Integer		Call Transfer Billing Mode 0: Callee 1: Caller
useCallerPhoneDisplay	O	Integer		Use Phone Display Number 0: Use System Parameter 1: On 2: Off Default: 0

noBillingToPhone	O	Integer		No billing, when the other side is phone 0: Use System Parameter 1: On 2: Off Default: 0
displayCallerShortNumber	O	Boolean		true: On false: Off
useRoutingGatewayNotOnline	O	Integer		If phone is offline, try routing gateway 0: Use System Parameter 1: On 2: Off Default: 0
minProfitPercentEnable	O	Boolean		Enable Min Profit Percent
minProfitPercent	O	Integer		Min Profit Rate e.g. 10 means 10% Range: -10000 to 10000
maxSecondRatesEnable	O	Boolean		Enable Max Second Rate
maxSecondRates	O	Integer		Max Second Rates e.g. if minute rate is 0.6, set this value as 0.01
firstRoutingPolicy	O	Integer		First Routing Strategy 0: None 1: ASR 2: Lowest Rate per Second
secondRoutingPolicy	O	Integer		Second Routing Strategy 0: None 1: ASR 2: Lowest Rate per Second
sipAuthenticationMethod	O	Integer		SIP Call Authentication Mode 0: IP

				1: IP and Port 2: Password
sipRemoteAlertingMethod	O	Integer		Remote Ring Back Mode 0: Default 1: d183+SDP 2: 180+SDP
sipTimerSupport	O	Boolean		true: Enable Timer (RFC4028) false: Disable Timer
sip100RelSupport	O	Boolean		true: Enable 100rel false: Disable 100rel
sipT38Support	O	Boolean		true: Enable t38 false: Disable t38
sipPrivacySupport	O	Boolean		true: Enable Privacy false: Omit Privacy
sipPrivacy	O	Integer		0: None 1: Pass through 2: id
sipPPreferredIdentity	O	Integer		0: None 1: Pass through 2: Caller number
sipPAssertedIdentity	O	Integer		0: None 1: Pass through 2: Caller number
dtmfReceiveMethod	O	Integer		DTMF Receive 0: All 10: RFC2833 20: Signaling 30: Off
dtmfSIPSendMethod	O	Integer		SIP DTMF Send 0: Auto 10: RFC2833 50: SIP INFO

				60: Off
sipCodecAssign	O	Boolean		true: Specify SIP Codec false: Auto Negotiation
sipCodecs	O	String []		Codec: audio/AMR audio/DVI4 audio/G722 audio/G723 audio/G726-16 audio/G726-24 audio/G726-32 audio/G726-40 audio/G728 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-FE C

				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
ivrEquipmentType	O	Integer		Equipment Type -1: None 1: Direct/Callback 2: IP PBX 3: Value Added
ivrServiceName	O	String		Service Name
ivrCallbackBillingMode	O	Integer		Callback First Line Billing 0: Access Number' Phone 1: In-use Phone Card 2: Auto (Order: Binded Number, Active Phone Card, Phone, Access Number's Phone) 3: Phone
ivrCallbackMergeBillingMod	O	Integer		Callback Second Line

e				Billing Mode 0: None 1: Add to Access Number Rate 2: Add to Caller Rate
ivrDirectMergeBillingMode	O	Integer		Direct Second Line Billing Mode 0: None 1: Add to Access Number Rate 2: Add to Caller Rate
ivrSecondBillingMode	O	Integer		Second Line Billing Mode 0: Access Number's Phone 1: In-use Phone Card 3: Phone
ivrCallbackBillingSecordNot ConnectedOnAccessE164	O	Boolean		true: Billing on access number, if second line not connected
ivrCallbackBillingSecordCo nnectedOnSecondAccount	O	Boolean		true: Billing on second line account, if second line connected
ivrAccessVerifyActivePhone Card	O	Boolean		true: Caller Number Verify Active Phone Card
ivrAccessVerifyBindedE164	O	Boolean		true: Caller Number Verify Binded Number
ivrAccessVerifyCallerE164P hone	O	Boolean		true: Caller Number Verify Phone
ivrAccessVerifyAccessE164 Phone	O	Boolean		true: Callee Number Verify Access Number Account
ivrEnablePhoneSetting	O	Boolean		true: Enable false: Disable
lrnEnable	O	Boolean		Enable LRN Query
lrnEatPrefixLength	O	Integer		Omit prefix length



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lrnFailureAction	O	Integer		0: Reject the call 1: Use original number
lrnInterstateBillingPrefix	O	String		Billing Prefix for different area
lrnUndeterminedBillingPrefix	O	String		Billing Prefix for unknown area

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
password	O	String		If no password, system will generate one automatically.

## 2.6 Modify Phone

<http://VOSIP/external/server/ModifyPhone>

### Request Format

Parameter	M/O	Type	Length	Description
e164	M	String	64	Phone Number
password	O	String	32	Phone Password
displayNumber	O	String	64	Display Number
lockType	O	Integer		Lock Type 0: No Lock 1: Lock Call Out 2: Lock Call In 3: Lock All
callLevel	O	Integer		Call Level 1: Net 2: Local 4: Domestic 5: International
feerateGroup	O	String	255	Fee Rate Group
monthlyMoneyMinimum	O	Double		Monthly Minimum Consumption
monthlyMoneyMaximum	O	Double		Monthly Maximum Consumption
monthlyRentFee	O	Double		Monthly Rent Fee
rewriteRulesOutCallee	O	String	65535	Call Out Callee Rewrite Rule
rewriteRulesInCallee	O	String	65535	Call In Callee Rewrite Rule
rewriteRulesInCaller	O	String	65535	Call In Caller Rewrite Rule
routingGatewayGroupsAllow	O	Boolean		true: Allow Selected Gateway Group false: Forbidden Selected Gateway Group

routingGatewayGroups	O	String	255	Routing Gateway Group Name Blank for All
account	O	String	64	Phone's Account
equipment	O	String	64	Phone's Soft Switch Blank for All
calleeBilling	O	Boolean		true: Enable false: Disable
customerPassword	O	String	32	Web Query Password
lineCallIn	O	Integer		Call In Number Limit
lineCallOut	O	Integer		Call Out Number Limit
lineCapacity	O	Integer		Total Number Limit
phonebookLimit	O	Integer		Phone Book Number Limit
callerLimitE164GroupsAllow	O	Boolean		true: Allow Selected Caller Group false: Forbidden Selected Caller Group
callerLimitE164Groups	O	String	255	Caller Limit E164 Groups Blank for All
calleeLimitE164Allow	O	Boolean		true: Allow Selected Callee Group false: Forbidden Selected Callee Group
calleeLimitE164Groups	O	String	255	Callee Limit E164 Groups Blank for All
memo	O	String	255	Memo
infoPhoneValueAdded	O	InfoPhoneValueAdded		Value Added Settings
infoPhoneAdditional	O	InfoPhoneAdditional		Additional Settings

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

---

## 2.7Delete Phone

<http://VOSIP/external/server/DeletePhone>

### Request Format

Parameter	M/O	Type	Length	Description
e164	M	String	64	Phone Number

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

---

## 2.8Get Phone

<http://VOSIP/external/server/GetPhone>

### Request Format

Parameter	M/O	Type	Length	Description
e164s	O	String []		E164 List
accounts	O	String []		Account List

One of parameters is needed at least.

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoPhones	O	InfoPhone []		Phone Information

### InfoPhone Format

Parameter	M/O	Type	Length	Description
e164	M	String	64	Phone Number
password	O	String	32	Phone Password
displayNumber	O	String	64	Display Number
lockType	O	Integer		Lock Type 0: No Lock 1: Lock Call Out 2: Lock Call In 3: Lock All
callLevel	O	Integer		Call Level 1: Net 2: Local 4: Domestic 5: International
feerateGroup	O	String	255	Fee Rate Group
monthlyMoneyMinimum	O	Double		Monthly Minimum

				Consumption
monthlyMoneyMaximum	O	Double		Monthly Maximum Consumption
monthlyRentFee	O	Double		Monthly Rent Fee
rewriteRulesOutCallee	O	String	65535	Call Out Callee Rewrite Rule
rewriteRulesInCallee	O	String	65535	Call In Callee Rewrite Rule
routingGatewayGroupsAllow	O	Boolean		true: Allow Selected Gateway Group false: Forbidden Selected Gateway Group
routingGatewayGroups	O	String	255	Routing Gateway Group Name Blank for All
account	O	String	64	Phone's Account
equipment	O	String	64	Phone's Soft Switch Blank for All
calleeBilling	O	Boolean		true: Enable false: Disable
customerPassword	O	String	32	Web Query Password
lineCallIn	O	Integer		Call In Number Limit
lineCallOut	O	Integer		Call Out Number Limit
lineCapacity	O	Integer		Total Number Limit
phonebookLimit	O	Integer		Phone Book Number Limit
callerLimitE164GroupsAllow	O	Boolean		true: Allow Selected Caller Group false: Forbidden Selected Caller Group
callerLimitE164Groups	O	String	255	Caller Limit E164 Groups Blank for All
calleeLimitE164Allow	O	Boolean		true: Allow Selected Callee Group false: Forbidden Selected

---

				Gallee Group
calleeLimitE164Groups	O	String	255	Callee Limit E164 Groups Blank for All
memo	O	String	255	Memo
infoPhoneValueAdded	O	InfoPhoneValueAdded		Value Added Settings
infoPhoneAdditional	O	InfoPhoneAdditional		Additional Settings

---

## 2.9Get Online Phone

<http://VOSIP/external/server/GetPhoneOnline>

### Request Format

Parameter	M/O	Type	Length	Description
e164s	M	String []		E164 List

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoPhoneOnlines	O	InfoPhoneOnline []		Online Phone Information

### InfoPhoneOnline Format

Parameter	M/O	Type	Length	Description
e164	M	String	64	Phone Number
currentCall	M	Integer		Current Call
remotelp	M	String		Remote IP
locallp	M	String		Local IP
registerTime	M	Long		Register Time (UTC)
updateTime	M	Long		Update Time (UTC)
protocol	M	Integer		Protocol Type 0: H323 1: SIP
cryptoType	M	Integer		Encryption Type 0: No Encryption 1: RC4
productId	M	String		Device Name



## 2.10 Create Gateway Mapping

<http://VOSIP/external/server/CreateGatewayMapping>

### Request Format

Parameter	M/O	Type	Length	Description
name	M	String	64	Mapping Gateway Name
password	O	String	64	Register Password
lockType	O	Integer		Lock Type 0: No Lock 3: Lock All
callLevel	O	Integer		Call Level 1: Net 2: Local 4: Domestic 5: International
capacity	O	Integer		Line Limit
priority	O	Integer		Priority
gatewayGroups	O	String	65535	Gateway Groups, use comma to separate
routingGatewayGroupsAllow	O	Boolean		true: Allow false: Forbidden
routingGatewayGroups	O	String	65535	Routing Gateway Groups Blank: All
registerType	O	Integer		Register Type 0: Static 1: Dynamic
remotelps	O	String	65535	IP list, use comma to separate
callerE164CheckEnable	O	Boolean		true: Enable Caller Check false: Disable Caller Check
callerE164CheckCity	O	Boolean		true: Enable Caller City Check

				false: Disable Caller City Check
callerE164CheckMobile	O	Boolean		true: Enable Caller Mobile Check false: Disable Caller Mobile Check
callerE164CheckOther	O	Boolean		true: Enable Caller Other Check false: Disable Caller Other Check
calleeE164CheckEnable	O	Boolean		true: Enable Callee Check false: Disable Callee Check
calleeE164CheckCity	O	Boolean		true: Enable Callee City Check false: Disable Callee City Check
calleeE164CheckMobile	O	Boolean		true: Enable Callee Mobile Check false: Disable Callee Mobile Check
calleeE164CheckOther	O	Boolean		true: Enable Callee Other Check false: Disable Callee Other Check
customerPassword	O	String		Web Query Password
rtpForwardType	O	Integer		Media Proxy 0: Auto 1: Enable 2: Disable Default: 0
mediaCheckDirection	O	Integer		RTP Interrupt Detection Mode

				0: No Detect 1: Detect whether VOS has sent RTP to Remote 2: Detect whether VOS has received Remote RTP 3: Detect Both Side's RTP Default: 0
calleeE164Restrict	O	Integer		Callee Limit 0: No Limit 1: Limit Callee is Phone 2: Limit Callee not Phone
maxCallDurationLower	O	Integer		-1: Use System Parameter 0: No limit
maxCallDurationUpper	O	Integer		-1: Use System Parameter 0: No limit
allowPhoneBilling	O	Boolean		Billing on Phone Account, If caller matches phone number
allowBindedE164Billing	O	Boolean		Billing on Binded E164 Account, If caller matches binded e164
enablePhoneSetting	O	Boolean		Use phone settings when caller matches phone number
denySameCityCodesAllow	O	Boolean		true: Enable denySameCityCodes Setting false: Disable denySameCityCodes Setting
denySameCityCodes	O	String	65535	Deny Same City Codes Settings, use comma to separate

checkMobileAreaAllow	O	Boolean		true: Enable checkMobileArea Settings false: Disable checkMobileArea Settings
checkMobileArea	O	String	65535	Mobile Area Settings, use comma to separate
calloutCalleePrefixesAllow	O	Boolean		true: Enable calloutCalleePrefixes Settings false: Disable calloutCalleePrefixes Settings
calloutCalleePrefixes	O	String	65535	Callout Callee Prefixes Settings
calloutCallerPrefixesAllow	O	Boolean		true: Enable calloutCallerPrefixes Settings false: Disable calloutCallerPrefixes Settings
calloutCallerPrefixes	O	String	65535	Callout Caller Prefixes Settings
rewriteRulesOutCallee	O	String	65535	Callee Rewrite Rule
rewriteRulesOutCaller	O	String	65535	Caller Rewrite Rule
rewriteRulesInMobileAreaAl low	O	Boolean		true: Enable rewriteRulesInMobileArea Settings false: Disable rewriteRulesInMobileArea Settings
rewriteRulesInMobileArea	O	String	65535	Mobile Area Rewrite Rules Settings, separate by comma

timeoutCallProceeding	O	Integer		Unit: Second -1: Use System Parameter 0: No limit
sipResponseAddressMethod	O	Integer		SIP Response Address 0: Response to Request Address 1: Response to Request IP use port from Via
sipRequestAddressMethod	O	Integer		SIP Request Address 0: To Original Address 1: To Original IP and Port from Contact 2: To Contact
dtmfSendMethodH323	O	Integer		0: Auto 10: RFC2833 20: H.245 alphanumeric 30: H.245 signal 40: Q.931 keypad 60: Off
dtmfSendMethodSIP	O	Integer		0: Auto 10: RFC2833 50: SIP Info 60: Off
dtmfReceiveMethod	O	Integer		0: All 10: RFC2833 20: Signaling 30: Off
dtmfSendPayloadTypeH323	O	Integer		Payload Type for H323 DTMF Send
dtmfSendPayloadTypeSIP	O	Integer		Payload Type for SIP DTMF Send
dtmfReceivePayloadType	O	Integer		Payload Type for DTMF Receive

q931ProgressIndicator	O	Integer		-1: Auto 0: Off 1: ProgressNotEndToEndISDN 2: ProgressDestinationNonISDN 3: ProgressOriginNotISDN 4: ProgressReturnedToISDN 5: ProgressServiceChange 8: ProgressInbandInformationAvailable
account	O	String		Billing Account
callTimeoutQ931CauseValue	O	Integer		H323 Cause Replace 0: No Replace Above 0: Refer to RFC
callTimeoutSIPCode	O	Integer		SIP Cause Replace 0: No Replace Above 0: Refer to RFC
sipRemoteRingSignal	O	Integer		SIP Remote Ring Signal 0: Auto 1: 183+SDP 2: 180+SDP
sipCalleeE164Domain	O	Integer		SIP Callee 0: Use field To 1: Use field Invite
sipCallerE164Domain	O	Integer		SIP Caller 0: Use field From 1: Use field RemotePartId 2: Use field Display
h323CalleeE164Domain	O	Integer		H323 Callee

				0: Use field CalledPartyNumber 1: Use field DestinationAddress
h323CallerE164Domain	O	Integer		H323 Caller 0: Use field CallingPartyNumber 1: Use field SourceAddress 2: Use field Display
memo	O	String		Memo
sipAuthenticationMethod	O	Integer		SIP Call Authentication Mode 0: IP 1: IP and Port 2: Password
h323FastStart	O	Boolean		true: Enable H323 fast start false: Disable H323 fast start
h323H245Tunneling	O	Boolean		true: Enable H323 H245 tunneling false: Disable H323 H245 tunneling
h323H245InSetup	O	Boolean		true: Enable H323 H245 in Setup false: Disable H323 H245 in Setup
h323AutoCallProceeding	O	Boolean		true: Enable H323 send response after receive call request false: Disable H323 send response after receive call request
h323CallProceedingFromSIPTrying	O	Boolean		Caller is H323, Callee is SIP true: convert trying to

				CallProceeding false: no convert
h323AlertingFromSIP183Sdp	O	Boolean		Caller is H323, Callee is SIP true: convert Alerting to CallProceeding false: no convert
h323T38	O	Boolean		true: Enable H323 T38 false: Disable H323 T38
sipTimer	O	Boolean		true: Enable SIP Timer (RFC4028) false: Disable SIP Timer
sip100Rel	O	Boolean		true: Enable SIP 100rel false: Disable SIP 100rel
sipT38	O	Boolean		true: Enable SIP T38 false: Disable SIP T38
sipDisplay	O	Boolean		true: Include Display false: Exclude Display
sipRemotePartyId	O	Boolean		true: Include RemotePartyId false: Exclude RemotePartyId
sipPrivacySupport	O	Boolean		true: Enable privacy false: Omit privacy
groupE164Change	O	Boolean		true: Enable Group E164 Change false: Disable Group E164 Change
callerAllowLength	O	Integer		Mask of Caller Allow Length 0: Allow All Length 1<x: Allow Length is x (x < 32)
calleeAllowLength	O	Integer		Mask of Callee Allow



				Length 0: Allow All Length 1<x: Allow Length is x (x < 32)
callerLimitE164GroupsAllow	O	Boolean		true: Allow callerLimitE164Groups false: Forbidden callerLimitE164Groups
callerLimitE164Groups	O	String		Caller List, separate by comma
calleeLimitE164GroupsAllow	O	Boolean		true: Allow calleeLimitE164Groups false: Forbidden calleeLimitE164Groups
calleeLimitE164Groups	O	String		Callee List, separate by comma
minProfitPercentEnable	O	Boolean		Enable Min Profit Percent
minProfitPercent	O	Integer		Min Profit Rate e.g. 10 means 10% Range: -10000 to 10000
maxSecondRatesEnable	O	Boolean		Enable Max Second Rate
maxSecondRates	O	Integer		Max Second Rates e.g. if minute rate is 0.6, set this value as 0.01
firstRoutePolicy	O	Integer		First Routing Strategy 0: None 1: ASR 2: Lowest Rate per Second
secondRoutePolicy	O	Integer		Second Routing Strategy 0: None 1: ASR 2: Lowest Rate per Second
h323G729SendMode	O	Integer		H323 G729 Negotiation

				Mode 0: Auto, keep original G729 codec 1: G729, treat G729a or G729 as G729 2: G729a, treat G729a or G729 as G729a 3: G729&G729a, treat G729 or G729a as G729 and G729a
sipG729SendMode	O	Integer		SIP G729 Negotiation Mode 0: Auto, keep original G729 codec 1: G729, treat G729a or G729 as G729 2: G729a, treat G729a or G729 as G729a 3: G729&G729a, treat G729 or G729a as G729 and G729a
sipG729Annexb	O	Integer		G729 annexb 0: Auto 1: annex=yes 2: annex=no 3: no annex 4: transmit annex
sipG723Annexa	O	Integer		G723 annexa 0: Auto 1: annex=yes 2: annex=no 3: no annex 4: transmit annex
h323CodecAssign	O	Boolean		true: Assign H323 Codecs false: Auto Negotiation

h323Codecs	O	Vector<String>		H323 Codec List
sipCodecAssign	O	Boolean		true: Assign SIP Codecs false: Auto Negotiation
sipCodecs	O	Vector<String>		SIP Codec List
forwardSignalRewriteE164GroupEnable	O	Boolean		true: Enable Forward Signal Rewrite false: Disable Forward Signal Rewrite
forwardSignalRewriteE164Group	O	String	255	Forward Signal Rewrite E164 Group
lrnEnable	O	Boolean		Enable LRN Query
lrnEatPrefixLength	O	Integer		Omit prefix length
lrnFailureAction	O	Integer		0: Reject the call 1: Use original number
lrnInterstateBillingPrefix	O	String		Billing Prefix for different area
lrnUndeterminedBillingPrefix	O	String		Billing Prefix for unknown area

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

## 2.11 Modify Mapping Gateway

<http://VOSIP/external/server/ModifyGatewayMapping>

### Request Format

Parameter	M/O	Type	Length	Description
name	M	String	64	Mapping Gateway Name
password	O	String	64	Register Password
lockType	O	Integer		Lock Type 0: No Lock 3: Lock All
callLevel	O	Integer		Call Level 1: Net 2: Local 4: Domestic 5: International
capacity	O	Integer		Line Limit
priority	O	Integer		Priority
gatewayGroups	O	String	65535	Gateway Groups, use comma to separate
routingGatewayGroupsAllow	O	Boolean		true: Allow false: Forbidden
routingGatewayGroups	O	String	65535	Routing Gateway Groups Blank: All
registerType	O	Integer		Register Type 0: Static 1: Dynamic
remotelps	O	String	65535	IP list, use comma to separate
callerE164CheckEnable	O	Boolean		true: Enable Caller Check false: Disable Caller Check
callerE164CheckCity	O	Boolean		true: Enable Caller City Check

				false: Disable Caller City Check
callerE164CheckMobile	O	Boolean		true: Enable Caller Mobile Check false: Disable Caller Mobile Check
callerE164CheckOther	O	Boolean		true: Enable Caller Other Check false: Disable Caller Other Check
calleeE164CheckEnable	O	Boolean		true: Enable Callee Check false: Disable Callee Check
calleeE164CheckCity	O	Boolean		true: Enable Callee City Check false: Disable Callee City Check
calleeE164CheckMobile	O	Boolean		true: Enable Callee Mobile Check false: Disable Callee Mobile Check
calleeE164CheckOther	O	Boolean		true: Enable Callee Other Check false: Disable Callee Other Check
customerPassword	O	String		Web Query Password
rtpForwardType	O	Integer		Media Proxy 0: Auto 1: Enable 2: Disable Default: 0
mediaCheckDirection	O	Integer		RTP Interrupt Detection Mode

				0: No Detect 1: Detect whether VOS has sent RTP to Remote 2: Detect whether VOS has received Remote RTP 3: Detect Both Side's RTP Default: 0
calleeE164Restrict	O	Integer		Callee Limit 0: No Limit 1: Limit Callee is Phone 2: Limit Callee not Phone
maxCallDurationLower	O	Integer		-1: Use System Parameter 0: No limit
maxCallDurationUpper	O	Integer		-1: Use System Parameter 0: No limit
allowPhoneBilling	O	Boolean		Billing on Phone Account, If caller matches phone number
allowBindedE164Billing	O	Boolean		Billing on Binded E164 Account, If caller matches binded e164
enablePhoneSetting	O	Boolean		Use phone settings when caller matches phone number
denySameCityCodesAllow	O	Boolean		true: Enable denySameCityCodes Setting false: Disable denySameCityCodes Setting
denySameCityCodes	O	String	65535	Deny Same City Codes Settings, use comma to separate

checkMobileAreaAllow	O	Boolean		true: Enable checkMobileArea Settings false: Disable checkMobileArea Settings
checkMobileArea	O	String	65535	Mobile Area Settings, use comma to separate
calloutCalleePrefixesAllow	O	Boolean		true: Enable calloutCalleePrefixes Settings false: Disable calloutCalleePrefixes Settings
calloutCalleePrefixes	O	String	65535	Callout Callee Prefixes Settings
calloutCallerPrefixesAllow	O	Boolean		true: Enable calloutCallerPrefixes Settings false: Disable calloutCallerPrefixes Settings
calloutCallerPrefixes	O	String	65535	Callout Caller Prefixes Settings
rewriteRulesOutCallee	O	String	65535	Callee Rewrite Rule
rewriteRulesOutCaller	O	String	65535	Caller Rewrite Rule
rewriteRulesInMobileAreaAl low	O	Boolean		true: Enable rewriteRulesInMobileArea Settings false: Disable rewriteRulesInMobileArea Settings
rewriteRulesInMobileArea	O	String	65535	Mobile Area Rewrite Rules Settings, separate by comma

timeoutCallProceeding	O	Integer		Unit: Second -1: Use System Parameter 0: No limit
sipResponseAddressMethod	O	Integer		SIP Response Address 0: Response to Request Address 1: Response to Request IP use port from Via
sipRequestAddressMethod	O	Integer		SIP Request Address 0: To Original Address 1: To Original IP and Port from Contact 2: To Contact
dtmfSendMethodH323	O	Integer		0: Auto 10: RFC2833 20: H.245 alphanumeric 30: H.245 signal 40: Q.931 keypad 60: Off
dtmfSendMethodSIP	O	Integer		0: Auto 10: RFC2833 50: SIP Info 60: Off
dtmfReceiveMethod	O	Integer		0: All 10: RFC2833 20: Signaling 30: Off
dtmfSendPayloadTypeH323	O	Integer		Payload Type for H323 DTMF Send
dtmfSendPayloadTypeSIP	O	Integer		Payload Type for SIP DTMF Send
dtmfReceivePayloadType	O	Integer		Payload Type for DTMF Receive



q931ProgressIndicator	O	Integer		-1: Auto 0: Off 1: ProgressNotEndToEndISDN 2: ProgressDestinationNonISDN 3: ProgressOriginNotISDN 4: ProgressReturnedToISDN 5: ProgressServiceChange 8: ProgressInbandInformationAvailable
account	O	String		Billing Account
callTimeoutQ931CauseValue	O	Integer		H323 Cause Replace 0: No Replace Above 0: Refer to RFC
callTimeoutSIPCode	O	Integer		SIP Cause Replace 0: No Replace Above 0: Refer to RFC
sipRemoteRingSignal	O	Integer		SIP Remote Ring Signal 0: Auto 1: 183+SDP 2: 180+SDP
sipCalleeE164Domain	O	Integer		SIP Callee 0: Use field To 1: Use field Invite
sipCallerE164Domain	O	Integer		SIP Caller 0: Use field From 1: Use field RemotePartId 2: Use field Display
h323CalleeE164Domain	O	Integer		H323 Callee

				0: Use field CalledPartyNumber 1: Use field DestinationAddress
h323CallerE164Domain	O	Integer		H323 Caller 0: Use field CallingPartyNumber 1: Use field SourceAddress 2: Use field Display
memo	O	String		Memo
sipAuthenticationMethod	O	Integer		SIP Call Authentication Mode 0: IP 1: IP and Port 2: Password
h323FastStart	O	Boolean		true: Enable H323 fast start false: Disable H323 fast start
h323H245Tunneling	O	Boolean		true: Enable H323 H245 tunneling false: Disable H323 H245 tunneling
h323H245InSetup	O	Boolean		true: Enable H323 H245 in Setup false: Disable H323 H245 in Setup
h323AutoCallProceeding	O	Boolean		true: Enable H323 send response after receive call request false: Disable H323 send response after receive call request
h323CallProceedingFromSIPTrying	O	Boolean		Caller is H323, Callee is SIP true: convert trying to

				CallProceeding false: no convert
h323AlertingFromSIP183Sdp	O	Boolean		Caller is H323, Callee is SIP true: convert Alerting to CallProceeding false: no convert
h323T38	O	Boolean		true: Enable H323 T38 false: Disable H323 T38
sipTimer	O	Boolean		true: Enable SIP Timer (RFC4028) false: Disable SIP Timer
sip100Rel	O	Boolean		true: Enable SIP 100rel false: Disable SIP 100rel
sipT38	O	Boolean		true: Enable SIP T38 false: Disable SIP T38
sipDisplay	O	Boolean		true: Include Display false: Exclude Display
sipRemotePartyId	O	Boolean		true: Include RemotePartyId false: Exclude RemotePartyId
sipPrivacySupport	O	Boolean		true: Enable Privacy false: Omit Privacy
groupE164Change	O	Boolean		true: Enable Group E164 Change false: Disable Group E164 Change
callerAllowLength	O	Integer		Mask of Caller Allow Length 0: Allow All Length 1<x: Allow Length is x (x < 32)
calleeAllowLength	O	Integer		Mask of Callee Allow

				Length 0: Allow All Length 1<x: Allow Length is x (x < 32)
callerLimitE164GroupsAllow	O	Boolean		true: Allow callerLimitE164Groups false: Forbidden callerLimitE164Groups
callerLimitE164Groups	O	String		Caller List, separate by comma
calleeLimitE164GroupsAllow	O	Boolean		true: Allow calleeLimitE164Groups false: Forbidden calleeLimitE164Groups
calleeLimitE164Groups	O	String		Callee List, separate by comma
minProfitPercentEnable	O	Boolean		Enable Min Profit Percent
minProfitPercent	O	Integer		Min Profit Rate e.g. 10 means 10% Range: -10000 to 10000
maxSecondRatesEnable	O	Boolean		Enable Max Second Rate
maxSecondRates	O	Integer		Max Second Rates e.g. if minute rate is 0.6, set this value as 0.01
firstRoutePolicy	O	Integer		First Routing Strategy 0: None 1: ASR 2: Lowest Rate per Second
secondRoutePolicy	O	Integer		Second Routing Strategy 0: None 1: ASR 2: Lowest Rate per Second
h323G729SendMode	O	Integer		H323 G729 Negotiation

				Mode 0: Auto, keep original G729 codec 1: G729, treat G729a or G729 as G729 2: G729a, treat G729a or G729 as G729a 3: G729&G729a, treat G729 or G729a as G729 and G729a
sipG729SendMode	O	Integer		SIP G729 Negotiation Mode 0: Auto, keep original G729 codec 1: G729, treat G729a or G729 as G729 2: G729a, treat G729a or G729 as G729a 3: G729&G729a, treat G729 or G729a as G729 and G729a
sipG729Annexb	O	Integer		G729 annexb 0: Auto 1: annex=yes 2: annex=no 3: no annex 4: transmit annex
sipG723Annexa	O	Integer		G723 annexa 0: Auto 1: annex=yes 2: annex=no 3: no annex 4: transmit annex
h323CodecAssign	O	Boolean		true: Assign H323 Codecs false: Auto Negotiation

h323Codecs	O	Vector<String>		H323 Codec List
sipCodecAssign	O	Boolean		true: Assign SIP Codecs false: Auto Negotiation
sipCodecs	O	Vector<String>		SIP Codec List
forwardSignalRewriteE164GroupEnable	M	Boolean		true: Enable Forward Signal Rewrite false: Disable Forward Signal Rewrite
forwardSignalRewriteE164Group	M	String	255	Forward Signal Rewrite E164 Group
lrnEnable	O	Boolean		Enable LRN Query
lrnEatPrefixLength	O	Integer		Omit prefix length
lrnFailureAction	O	Integer		0: Reject the call 1: Use original number
lrnInterstateBillingPrefix	O	String		Billing Prefix for different area
lrnUndeterminedBillingPrefix	O	String		Billing Prefix for unknown area

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

## 2.12Get Mapping Gateway

<http://VOSIP/external/server/GetGatewayMapping>

### Request Format

Parameter	M/O	Type	Length	Description
names	M	String []		Gateway Name Blank: All

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoGatewayMappings	O	InfoGatewayMapping []		Gateway Information

### InfoGatewayMapping Format

Parameter	M/O	Type	Length	Description
name	M	String	64	Mapping Gateway Name
lockType	M	Integer		Lock Type 0: No Lock 3: Lock All
callLevel	M	Integer		Call Level 1: Net 2: Local 4: Domestic 5: International
capacity	M	Integer		Line Limit
priority	M	Integer		Priority
gatewayGroups	M	String	65535	Gateway Groups, use comma to separate
routingGatewayGroupsAllow	M	Boolean		true: Allow false: Forbidden
routingGatewayGroups	M	String	65535	Routing Gateway Groups

				Blank: All
registerType	M	Integer		Register Type 0: Static 1: Dynamic
remotelps	M	String	65535	IP list, use comma to separate
callerE164CheckEnable	M	Boolean		true: Enable Caller Check false: Disable Caller Check
callerE164CheckCity	M	Boolean		true: Enable Caller City Check false: Disable Caller City Check
callerE164CheckMobile	M	Boolean		true: Enable Caller Mobile Check false: Disable Caller Mobile Check
callerE164CheckOther	M	Boolean		true: Enable Caller Other Check false: Disable Caller Other Check
calleeE164CheckEnable	M	Boolean		true: Enable Callee Check false: Disable Callee Check
calleeE164CheckCity	M	Boolean		true: Enable Callee City Check false: Disable Callee City Check
calleeE164CheckMobile	M	Boolean		true: Enable Callee Mobile Check false: Disable Callee Mobile Check
calleeE164CheckOther	M	Boolean		true: Enable Callee Other



				Check false: Disable Callee Other Check
rtpForwardType	M	Integer		Media Proxy 0: Auto 1: Enable 2: Disable Default: 0
mediaCheckDirection	M	Integer		RTP Interrupt Detection Mode 0: No Detect 1: Detect whether VOS has sent RTP to Remote 2: Detect whether VOS has received Remote RTP 3: Detect Both Side's RTP Default: 0
calleeE164Restrict	M	Integer		Callee Limit 0: No Limit 1: Limit Callee is Phone 2: Limit Callee not Phone
maxCallDurationLower	M	Integer		-1: Use System Parameter 0: No limit
maxCallDurationUpper	M	Integer		-1: Use System Parameter 0: No limit
allowPhoneBilling	M	Boolean		Billing on Phone Account, If caller matches phone number
allowBindedE164Billing	M	Boolean		Billing on Binded E164 Account, If caller matches binded e164
enablePhoneSetting	M	Boolean		Use phone settings when caller matches phone number

denySameCityCodesAllow	M	Boolean		true: Enable denySameCityCodes Setting false: Disable denySameCityCodes Setting
denySameCityCodes	M	String	65535	Deny Same City Codes Settings, use comma to separate
checkMobileAreaAllow	M	Boolean		true: Enable checkMobileArea Settings false: Disable checkMobileArea Settings
checkMobileArea	M	String	65535	Mobile Area Settings, use comma to separate
calloutCalleePrefixesAllow	M	Boolean		true: Enable calloutCalleePrefixes Settings false: Disable calloutCalleePrefixes Settings
calloutCalleePrefixes	M	String	65535	Callout Callee Prefixes Settings
calloutCallerPrefixesAllow	M	Boolean		true: Enable calloutCallerPrefixes Settings false: Disable calloutCallerPrefixes Settings
calloutCallerPrefixes	M	String	65535	Callout Caller Prefixes Settings
rewriteRulesOutCallee	M	String	65535	Callee Rewrite Rule
rewriteRulesOutCaller	M	String	65535	Caller Rewrite Rule

rewriteRulesInMobileAreaAllow	M	Boolean		true: Enable rewriteRulesInMobileArea Settings false: Disable rewriteRulesInMobileArea Settings
rewriteRulesInMobileArea	M	String	65535	Mobile Area Rewrite Rules Settings, separate by comma
timeoutCallProceeding	M	Integer		Unit: Second -1: Use System Parameter 0: No limit
sipResponseAddressMethod	M	Integer		SIP Response Address 0: Response to Request Address 1: Response to Request IP use port from Via
sipRequestAddressMethod	M	Integer		SIP Request Address 0: To Original Address 1: To Original IP and Port from Contact 2: To Contact
dtmfSendMethodH323	M	Integer		0: Auto 10: RFC2833 20: H.245 alphanumeric 30: H.245 signal 40: Q.931 keypad 60: Off
dtmfSendMethodSIP	M	Integer		0: Auto 10: RFC2833 50: SIP Info 60: Off
dtmfReceiveMethod	M	Integer		0: All 10: RFC2833

				20: Signaling 30: Off
dtmfSendPayloadTypeH323	M	Integer		Payload Type for H323 DTMF Send
dtmfSendPayloadTypeSIP	M	Integer		Payload Type for SIP DTMF Send
dtmfReceivePayloadType	M	Integer		Payload Type for DTMF Receive
q931ProgressIndicator	M	Integer		-1: Auto 0: Off 1: ProgressNotEndToEndISDN 2: ProgressDestinationNonISDN 3: ProgressOriginNotISDN 4: ProgressReturnedToISDN 5: ProgressServiceChange 8: ProgressInbandInformation Available
account	M	String		Billing Account
callTimeoutQ931CauseValue	M	Integer		H323 Cause Replace 0: No Replace Above 0: Refer to RFC
callTimeoutSIPCode	M	Integer		SIP Cause Replace 0: No Replace Above 0: Refer to RFC
sipRemoteRingSignal	M	Integer		SIP Remote Ring Signal 0: Auto 1: 183+SDP 2: 180+SDP

sipCalleeE164Domain	M	Integer		SIP Callee 0: Use field To 1: Use field Invite
sipCallerE164Domain	M	Integer		SIP Caller 0: Use field From 1: Use field RemotePartId 2: Use field Display
h323CalleeE164Domain	M	Integer		H323 Callee 0: Use field CalledPartyNumber 1: Use field DestinationAddress
h323CallerE164Domain	M	Integer		H323 Caller 0: Use field CallingPartyNumber 1: Use field SourceAddress 2: Use field Display
memo	M	String		Memo
sipAuthenticationMethod	M	Integer		SIP Call Authentication Mode 0: IP 1: IP and Port 2: Password
h323FastStart	M	Boolean		true: Enable H323 fast start false: Disable H323 fast start
h323H245Tunneling	M	Boolean		true: Enable H323 H245 tunneling false: Disable H323 H245 tunneling
h323H245InSetup	M	Boolean		true: Enable H323 H245 in Setup false: Disable H323 H245 in Setup

h323AutoCallProceeding	M	Boolean		true: Enable H323 send response after receive call request false: Disable H323 send response after receive call request
h323CallProceedingFromSIPTrying	M	Boolean		Caller is H323, Callee is SIP true: convert trying to CallProceeding false: no convert
h323AlertingFromSIP183SDP	M	Boolean		Caller is H323, Callee is SIP true: convert Alerting to CallProceeding false: no convert
h323T38	M	Boolean		true: Enable H323 T38 false: Disable H323 T38
sipTimer	M	Boolean		true: Enable SIP Timer (RFC4028) false: Disable SIP Timer
sip100Rel	M	Boolean		true: Enable SIP 100rel false: Disable SIP 100rel
sipT38	M	Boolean		true: Enable SIP T38 false: Disable SIP T38
sipDisplay	M	Boolean		true: Include Display false: Exclude Display
sipRemotePartyId	M	Boolean		true: Include RemotePartyId false: Exclude RemotePartyId
sipPPPreferredIdentity	M	Boolean		true: Include P-Preferred-Identity false: Exclude P-Preferred-Identity

sipPAssertedIdentity	M	Boolean		true: Include P-Asserted-Identity false: Exclude P-Asserted-Identity
groupE164Change	M	Boolean		true: Enable Group E164 Change false: Disable Group E164 Change
callerAllowLength	M	Integer		Mask of Caller Allow Length 0: Allow All Length 1<x: Allow Length is x (x < 32)
calleeAllowLength	M	Integer		Mask of Callee Allow Length 0: Allow All Length 1<x: Allow Length is x (x < 32)
callerLimitE164GroupsAllow	M	Boolean		true: Allow callerLimitE164Groups false: Forbidden callerLimitE164Groups
callerLimitE164Groups	M	String		Caller List, separate by comma
calleeLimitE164GroupsAllow	M	Boolean		true: Allow calleeLimitE164Groups false: Forbidden calleeLimitE164Groups
calleeLimitE164Groups	M	String		Callee List, separate by comma
minProfitPercent	M	Integer		Lowest Profit Rate Limit -1: No limit Range: -1-9999 Default: -1

firstRoutePolicy	M	Integer		First Routing Strategy 0: None 1: ASR 2: Lowest Rate per Second
secondRoutePolicy	M	Integer		Second Routing Strategy 0: None 1: ASR 2: Lowest Rate per Second
h323G729SendMode	M	Integer		H323 G729 Negotiation Mode 0: Auto, keep original G729 codec 1: G729, treat G729a or G729 as G729 2: G729a, treat G729a or G729 as G729a 3: G729&G729a, treat G729 or G729a as G729 and G729a
sipG729SendMode	M	Integer		SIP G729 Negotiation Mode 0: Auto, keep original G729 codec 1: G729, treat G729a or G729 as G729 2: G729a, treat G729a or G729 as G729a 3: G729&G729a, treat G729 or G729a as G729 and G729a
sipG729Annexb	M	Integer		G729 annexb 0: Auto 1: annex=yes 2: annex=no 3: no annex



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				4: transmit annex
sipG723Annexa	M	Integer		G723 annexa 0: Auto 1: annex=yes 2: annex=no 3: no annex 4: transmit annex
h323CodecAssign	M	Boolean		true: Assign H323 Codecs false: Auto Negotiation
h323Codecs	M	Vector<String>		H323 Codec List
sipCodecAssign	M	Boolean		true: Assign SIP Codecs false: Auto Negotiation
sipCodecs	M	Vector<String>		SIP Codec List
forwardSignalRewriteE164GroupEnable	O	Boolean		true: Enable Forward Signal Rewrite false: Disable Forward Signal Rewrite
forwardSignalRewriteE164Group	O	String	255	Forward Signal Rewrite E164 Group
softswitchName	M	String		Soft Switch Name

---

## 2.13 Delete Mapping Gateway

<http://VOSIP/external/server/DeleteGatewayMapping>

### Request Format

Parameter	M/O	Type	Length	Description
name	M	String		Mapping Gateway Name

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

## 2.14Get Online Mapping Gateway

<http://VOSIP/external/server/GetGatewayMappingOnline>

### Request Format

Parameter	M/O	Type	Length	Description
names	O	String []		Gateway Name Null: All
softswitchName	O	String		Soft Switch Name Null: All

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoGatewayMappingOnline s	O	InfoGatewayMappingOnline []		Online Mapping Gateway Information

### InfoGatewayMappingOnline Format

Parameter	M/O	Type	Length	Description
id	M	Integer		Mapping Gateway ID
name	M	String		Mapping Gateway Name
currentCall	M	Integer		Current Call
capacity	M	Integer		Line Limit
asr	M	double		Average Success Ratio
acd	M	Long		Average Call Duration
remotelps	M	String		IP list, use comma to separate
natIp	O	String		NAT Address
localIp	M	String		Register IP
registerTime	M	Long		Register Time (UTC) 0: Static Gateway
updateTime	M	Long		Last Update Time (UTC)

---

				0: Static Gateway
keepTime	M	Long		Online Time (Second) 0: Static Gateway
cryptoType	M	Integer		Encryption Type 0: No Encryption 1: RC4
softswitchName	M	String		Soft Switch Name
softswitchIp	M	String		Soft Switch IP

## 2.15 Create Routing Gateway

<http://VOSIP/external/server/CreateGatewayRouting>

### Request Format

Parameter	M/O	Type	Length	Description
name	M	String	64	Routing Gateway Name
prefix	O	String		Gateway Prefix
prefixStyle	O	Integer		Prefix Mode 0: Terminal 1: Continual
password	O	String		Gateway Password Default: Random Create
customerPassword	O	String		Self Service Password
gatewayGroups	O	String		Gateway Groups
capacity	O	Integer		Line Limit
lockType	O	Integer		Lock Type 0: No Lock 3: Lock All Default: 0
priority	O	Integer		Priority
registerType	O	Integer		Register Type 0: Static 1: Dynamic 2: Register
remotelp	O	String	64	IP
rtpForwardType	O	Integer		Media Proxy 0: Auto 1: Enable 2: Disable Default: 0
encrypt	O	Boolean		true: Encrypt false: No Encrypt

protocol	O	Integer		Protocol 0: H323 1: SIP
signalPort	O	Integer		Signaling Port H323 Default: 1720 SIP Default: 5060
localIp	O	String	64	Local IP Blank: Auto
mediaCheckDirection	O	Integer		RTP Interrupt Detection Mode 0: No Detect 1: Detect whether VOS has sent RTP to Remote 2: Detect whether VOS has received Remote RTP 3: Detect Both Side's RTP Default: 0
maxCallDurationLower	O	Integer		-1: Use System Parameter 0: No limit
maxCallDurationUpper	O	Integer		-1: Use System Parameter 0: No limit
calleeE164Restrict	O	Integer		Callee Limit 0: No Limit 1: Limit Callee is Phone 2: Limit Callee not Phone
callerE164CheckEnable	O	Boolean		true: Enable Caller Check false: Disable Caller Check
callerE164CheckCity	O	Boolean		true: Enable Caller City Check false: Disable Caller City Check
callerE164CheckMobile	O	Boolean		true: Enable Caller Mobile

				Check false: Disable Caller Mobile Check
callerE164CheckOther	O	Boolean		true: Enable Caller Other Check false: Disable Caller Other Check
calleeE164CheckEnable	O	Boolean		true: Enable Callee Check false: Disable Callee Check
calleeE164CheckCity	O	Boolean		true: Enable Callee City Check false: Disable Callee City Check
calleeE164CheckMobile	O	Boolean		true: Enable Callee Mobile Check false: Disable Callee Mobile Check
calleeE164CheckOther	O	Boolean		true: Enable Callee Other Check false: Disable Callee Other Check
callinCallerPrefixesAllow	O	Boolean		true: Enable callinCallerPrefixes false: Disable callinCallerPrefixes
callinCallerPrefixes	O	String	65535	Caller Prefixes List
callinCalleePrefixesAllow	O	Boolean		true: Enable callinCalleePrefixes false: Disable callinCalleePrefixes
callinCalleePrefixes	O	String	65535	Callee Prefixes List
callinForwardPrefixesAllow	O	Boolean		true: Enable

				callinForwardPrefixes settings false: Disable callinForwardPrefixes settings
callinForwardPrefixes	O	String	65535	Call in forward prefixes settings
rewriteRulesInCaller	O	String	65535	Caller Rewrite Rule
rewriteRulesInCallee	O	String	65535	Callee Rewrite Rule
rewriteRulesInMobileAreaAl low	O	Boolean		true: Enable rewriteRulesInMobileArea false: Disable rewriteRulesInMobileArea
rewriteRulesInMobileArea	O	String	65535	Mobile Area Rewrite Rules Settings, separate by comma
timeoutSetup	O	Integer		H323 Setup Timeout(Unit: Second) 0: Use System Parameter
timeoutCallProceeding	O	Integer		H323 CallProceeding Timeout(Unit: Second) 0: Use System Parameter
timeoutCallProceedingOlc	O	Integer		H323 CallProceeding include Open Logical Channel Timeout(Unit: Second) 0: Use System Parameter
timeoutAlerting	O	Integer		H323 Alerting Timeout(Unit: Second) 0: Use System Parameter
timeoutInvite	O	Integer		SIP Invite Timeout(Unit: Second) 0: Use System Parameter



timeoutTrying	O	Integer		SIP Trying Timeout(Unit: Second) 0: Use System Parameter
timeoutSessionProgressSdp	O	Integer		SIP SessionProgress include SDP Timeout(Unit: Second) 0: Use System Parameter
timeoutSessionProgress	O	Integer		SIP SessionProgress Timeout(Unit: Second) 0: Use System Parameter
timeoutRinging	O	Integer		SIP Ring Timeout(Unit: Second) 0: Use System Parameter
denyCallerCalleeAllow	O	Boolean		true: Enable denyCallerCallee false: Disable denyCallerCallee
denyCallerCallee	O	String	65535	Format: [ <Caller>: <Callee>[, <Caller>: <Callee>]...] e.g.: 025: 010,021: 023
denySameCityCodesAllow	O	Boolean		true: Enable denySameCityCodes Setting false: Disable denySameCityCodes Setting
denySameCityCodes	O	String	65535	Deny Same City Codes Settings, use comma to separate
checkMobileAreaAllow	O	Boolean		true: Enable checkMobileArea Settings false: Disable checkMobileArea Settings

checkMobileArea	O	String	65535	Mobile Area Settings, use comma to separate
stopSwitchAfterOlc	O	Integer		Stop Switch Gateway After Open Logical Channel 0: Use System Parameter 1: Disable 2: Enable Default: 0
stopSwitchAfterSdp	O	Integer		Stop Switch Gateway After Received SDP 0: Use System Parameter 1: Disable 2: Enable Default: 0
stopSwitchAfterRtpStart	O	Integer		Stop Switch Gateway After Received RTP 0: Use System Parameter 1: Disable 2: Enable Default: 0
stopSwitchAfterUserBusy	O	Integer		Stop Switch Gateway After Received User Busy 0: Use System Parameter 1: Disable 2: Enable Default: 0
switchUntilConnect	O	Integer		Switch Gateway Until Connect 0: Use System Parameter 1: Disable 2: Enable Default: 0
sipResponseAddressMethod	O	Integer		SIP Response Address 0: Response to Request

				Address 1: Response to Request IP use port from Via
sipRequestAddressMethod	O	Integer		SIP Request Address 0: To Original Address 1: To Original IP and Port from Contact 2: To Contact
dtmfSendMethodH323	O	Integer		0: Auto 10: RFC2833 20: H.245 alphanumeric 30: H.245 signal 40: Q.931 keypad 60: Off
dtmfSendMethodSIP	O	Integer		0: Auto 10: RFC2833 50: SIP Info 60: Off
dtmfReceiveMethod	O	Integer		0: All 10: RFC2833 20: Signaling 30: Off
dtmfSendPayloadTypeH323	O	Integer		Payload Type for H323 DTMF Send
dtmfSendPayloadTypeSIP	O	Integer		Payload Type for SIP DTMF Send
dtmfReceivePayloadType	O	Integer		Payload Type for DTMF Receive
q931NumberingPlan	O	Integer		Q931NumberingPlan -1: Use System Parameter 0: UnknownPlan 1: ISDNPlan 3: DataPlan 4: TelexPlan

				8: NationalStandardPlan 9: PrivatePlan 15: ReservedPlan
q931NumberType	O	Integer		Q931NumberType -1: Use System Parameter 0: UnknownType 1: InternationalType 2: NationalType 3: NetworkSpecificType 4: SubscriberType 6: AbbreviatedType 7: ReservedType
q931PresentationIndicator	O	Integer		Q931PresentationIndicator -1: Use System Parameter 0: Presentation allowed 1: Presentation restricted 2: Number not available due to interworking 3: Reserved 4: None
q931ScreeningIndicator	O	Integer		Q931ScreeningIndicator -1: Use System Parameter 0: User-provided, not screened 1: User-provided, verified and passed 2: User-provided, verified and failed 3: Network provided 4: None
clearingAccount	O	String	64	Clearing Account Name
h323FastStart	O	Boolean		true: Enable H323 fast start false: Disable H323 fast start

h323H245Tunneling	O	Boolean		true: Enable H323 H245 tunneling false: Disable H323 H245 tunneling
h323H245InSetup	O	Boolean		true: Enable H323 H245 in Setup false: Disable H323 H245 in Setup
h323T38	O	Boolean		true: Enable H323 T38 false: Disable H323 T38
sipTimer	O	Boolean		true: Enable SIP Timer (RFC4028) false: Disable SIP Timer
sip100Rel	O	Boolean		true: Enable SIP 100rel false: Disable SIP 100rel
sipT38	O	Boolean		true: Enable SIP T38 false: Disable SIP T38
sipDisplay	O	Boolean		true: Include Display false: Exclude Display
sipRemotePartyId	O	Boolean		true: Include RemotePartyId false: Exclude RemotePartyId
sipPrivacy	O	Integer		0: None 1: Pass through 2: id
sipPPreferredIdentity	O	Integer		0: None 1: Pass through 2: Caller number
sipPAssertedIdentity	O	Integer		0: None 1: Pass through 2: Caller number
groupE164Change	O	Boolean		true: Enable Group E164

				Change false: Disable Group E164 Change
callerAllowLength	O	Integer		Mask of Caller Allow Length 0: Allow All Length 1<x: Allow Length is x (x < 32)
calleeAllowLength	O	Integer		Mask of Callee Allow Length 0: Allow All Length 1<x: Allow Length is x (x < 32)
callerLimitE164GroupsAllow	O	Boolean		true: Allow callerLimitE164Groups false: Forbidden callerLimitE164Groups
callerLimitE164Groups	O	String	255	Caller List, separate by comma
calleeLimitE164GroupsAllow	O	Boolean		true: Allow calleeLimitE164Groups false: Forbidden calleeLimitE164Groups
calleeLimitE164Groups	O	String	255	Callee List, separate by comma
h323G729SendMode	O	Integer		H323 G729 Negotiation Mode 0: Auto, keep original G729 codec 1: G729, treat G729a or G729 as G729 2: G729a, treat G729a or G729 as G729a 3: G729&G729a, treat G729

				or G729a as G729 and G729a
sipG729SendMode	O	Integer		SIP G729 Negotiation Mode 0: Auto, keep original G729 codec 1: G729, treat G729a or G729 as G729 2: G729a, treat G729a or G729 as G729a 3: G729&G729a, treat G729 or G729a as G729 and G729a
sipG729Annexb	O	Integer		G729 annexb 0: Auto 1: annex=yes 2: annex=no 3: no annex 4: transmit annex
sipG723Annexa	O	Integer		G723 annexa 0: Auto 1: annex=yes 2: annex=no 3: no annex 4: transmit annex
h323CodecAssign	O	Boolean		true: Assign H323 Codecs false: Auto Negotiation
h323Codecs	O	Vector<String>		H323 Codec List
sipCodecAssign	O	Boolean		true: Assign SIP Codecs false: Auto Negotiation
sipCodecs	O	Vector<String>		SIP Codec List
feerateRestrict	O	Boolean		true: Check Callee Fee Rate false: No Check

leastCostRouting	O	Boolean		(feerateRestrict must be true) true: On false: Off
minProfitPercentEnable	O	Boolean		Enable Min Profit Percent
minProfitPercent	O	Integer		Min Profit Rate e.g. 10 means 10% Range: -10000 to 10000
maxSecondRatesEnable	O	Boolean		Enable Max Second Rate
maxSecondRates	O	Integer		Max Second Rates e.g. if minute rate is 0.6, set this value as 0.01
enablePhoneDisplay	O	Boolean		true: Use phone display number as caller false: Use phone number as caller
clearingAccountUseCallout E164	O	Boolean		true: Use Callee after rewrite as Clearing Account false: Use Callee before rewrite as Clearing Account
softswitchName	O	String	64	Soft Switch Name
forwardSignalRewriteE164 GroupEnable	O	Boolean		true: Enable Forward Signal Rewrite false: Disable Forward Signal Rewrite
forwardSignalRewriteE164 Group	O	String	255	Forward Signal Rewrite E164 Group

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code



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exception	O	String		Error Information
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## 2.16 Modify Routing Gateway

<http://VOSIP/external/server/ModifyGatewayRouting>

### Request Format

Parameter	M/O	Type	Length	Description
name	M	String	64	Routing Gateway Name
prefix	O	String		Gateway Prefix
prefixStyle	O	Integer		Prefix Mode 0: Terminal 1: Continual
password	O	String		Gateway Password Default: Random Create
customerPassword	O	String		Self Service Password
gatewayGroups	O	String		Gateway Groups
capacity	O	Integer		Line Limit
lockType	O	Integer		Lock Type 0: No Lock 3: Lock All Default: 0
priority	O	Integer		Priority
registerType	O	Integer		Register Type 0: Static 1: Dynamic 2: Register
remotelp	O	String	64	IP
rtpForwardType	O	Integer		Media Proxy 0: Auto 1: Enable 2: Disable Default: 0
encrypt	O	Boolean		true: Encrypt false: No Encrypt

protocol	O	Integer		Protocol 0: H323 1: SIP
signalPort	O	Integer		Signaling Port H323 Default: 1720 SIP Default: 5060
localIp	O	String	64	Local IP Blank: Auto
mediaCheckDirection	O	Integer		RTP Interrupt Detection Mode 0: No Detect 1: Detect whether VOS has sent RTP to Remote 2: Detect whether VOS has received Remote RTP 3: Detect Both Side's RTP Default: 0
maxCallDurationLower	O	Integer		-1: Use System Parameter 0: No limit
maxCallDurationUpper	O	Integer		-1: Use System Parameter 0: No limit
calleeE164Restrict	O	Integer		Callee Limit 0: No Limit 1: Limit Callee is Phone 2: Limit Callee not Phone
callerE164CheckEnable	O	Boolean		true: Enable Caller Check false: Disable Caller Check
callerE164CheckCity	O	Boolean		true: Enable Caller City Check false: Disable Caller City Check
callerE164CheckMobile	O	Boolean		true: Enable Caller Mobile

				Check false: Disable Caller Mobile Check
callerE164CheckOther	O	Boolean		true: Enable Caller Other Check false: Disable Caller Other Check
calleeE164CheckEnable	O	Boolean		true: Enable Callee Check false: Disable Callee Check
calleeE164CheckCity	O	Boolean		true: Enable Callee City Check false: Disable Callee City Check
calleeE164CheckMobile	O	Boolean		true: Enable Callee Mobile Check false: Disable Callee Mobile Check
calleeE164CheckOther	O	Boolean		true: Enable Callee Other Check false: Disable Callee Other Check
callinCallerPrefixesAllow	O	Boolean		true: Enable callinCallerPrefixes false: Disable callinCallerPrefixes
callinCallerPrefixes	O	String	65535	Caller Prefixes List
callinCalleePrefixesAllow	O	Boolean		true: Enable callinCalleePrefixes false: Disable callinCalleePrefixes
callinCalleePrefixes	O	String	65535	Callee Prefixes List
callinForwardPrefixesAllow	O	Boolean		true: Enable

				callinForwardPrefixes settings false: Disable callinForwardPrefixes settings
callinForwardPrefixes	O	String	65535	Call in forward prefixes settings
rewriteRulesInCaller	O	String	65535	Caller Rewrite Rule
rewriteRulesInCallee	O	String	65535	Callee Rewrite Rule
rewriteRulesInMobileAreaAl low	O	Boolean		true: Enable rewriteRulesInMobileArea false: Disable rewriteRulesInMobileArea
rewriteRulesInMobileArea	O	String	65535	Mobile Area Rewrite Rules Settings, separate by comma
timeoutSetup	O	Integer		H323 Setup Timeout(Unit: Second) 0: Use System Parameter
timeoutCallProceeding	O	Integer		H323 CallProceeding Timeout(Unit: Second) 0: Use System Parameter
timeoutCallProceedingOlc	O	Integer		H323 CallProceeding include Open Logical Channel Timeout(Unit: Second) 0: Use System Parameter
timeoutAlerting	O	Integer		H323 Alerting Timeout(Unit: Second) 0: Use System Parameter
timeoutInvite	O	Integer		SIP Invite Timeout(Unit: Second) 0: Use System Parameter

timeoutTrying	O	Integer		SIP Trying Timeout(Unit: Second) 0: Use System Parameter
timeoutSessionProgressSdp	O	Integer		SIP SessionProgress include SDP Timeout(Unit: Second) 0: Use System Parameter
timeoutSessionProgress	O	Integer		SIP SessionProgress Timeout(Unit: Second) 0: Use System Parameter
timeoutRinging	O	Integer		SIP Ring Timeout(Unit: Second) 0: Use System Parameter
denyCallerCalleeAllow	O	Boolean		true: Enable denyCallerCallee false: Disable denyCallerCallee
denyCallerCallee	O	String	65535	Format: [<Caller>:<Callee>[,<Caller>:<Callee>]...] e.g.: 025: 010,021: 023
denySameCityCodesAllow	O	Boolean		true: Enable denySameCityCodes Setting false: Disable denySameCityCodes Setting
denySameCityCodes	O	String	65535	Deny Same City Codes Settings, use comma to separate
checkMobileAreaAllow	O	Boolean		true: Enable checkMobileArea Settings false: Disable checkMobileArea Settings

checkMobileArea	O	String	65535	Mobile Area Settings, use comma to separate
stopSwitchAfterOlc	O	Integer		Stop Switch Gateway After Open Logical Channel 0: Use System Parameter 1: Disable 2: Enable Default: 0
stopSwitchAfterSdp	O	Integer		Stop Switch Gateway After Received SDP 0: Use System Parameter 1: Disable 2: Enable Default: 0
stopSwitchAfterRtpStart	O	Integer		Stop Switch Gateway After Received RTP 0: Use System Parameter 1: Disable 2: Enable Default: 0
stopSwitchAfterUserBusy	O	Integer		Stop Switch Gateway After Received User Busy 0: Use System Parameter 1: Disable 2: Enable Default: 0
switchUntilConnect	O	Integer		Switch Gateway Until Connect 0: Use System Parameter 1: Disable 2: Enable Default: 0
sipResponseAddressMethod	O	Integer		SIP Response Address 0: Response to Request

				Address 1: Response to Request IP use port from Via
sipRequestAddressMethod	O	Integer		SIP Request Address 0: To Original Address 1: To Original IP and Port from Contact 2: To Contact
dtmfSendMethodH323	O	Integer		0: Auto 10: RFC2833 20: H.245 alphanumeric 30: H.245 signal 40: Q.931 keypad 60: Off
dtmfSendMethodSIP	O	Integer		0: Auto 10: RFC2833 50: SIP Info 60: Off
dtmfReceiveMethod	O	Integer		0: All 10: RFC2833 20: Signaling 30: Off
dtmfSendPayloadTypeH323	O	Integer		Payload Type for H323 DTMF Send
dtmfSendPayloadTypeSIP	O	Integer		Payload Type for SIP DTMF Send
dtmfReceivePayloadType	O	Integer		Payload Type for DTMF Receive
q931NumberingPlan	O	Integer		Q931NumberingPlan -1: Use System Parameter 0: UnknownPlan 1: ISDNPlan 3: DataPlan 4: TelexPlan



				8: NationalStandardPlan 9: PrivatePlan 15: ReservedPlan
q931NumberType	O	Integer		Q931NumberType -1: Use System Parameter 0: UnknownType 1: InternationalType 2: NationalType 3: NetworkSpecificType 4: SubscriberType 6: AbbreviatedType 7: ReservedType
q931PresentationIndicator	O	Integer		Q931PresentationIndicator -1: Use System Parameter 0: Presentation allowed 1: Presentation restricted 2: Number not available due to interworking 3: Reserved 4: None
q931ScreeningIndicator	O	Integer		Q931ScreeningIndicator -1: Use System Parameter 0: User-provided, not screened 1: User-provided, verified and passed 2: User-provided, verified and failed 3: Network provided 4: None
clearingAccount	O	String	64	Clearing Account Name
h323FastStart	O	Boolean		true: Enable H323 fast start false: Disable H323 fast start

h323H245Tunneling	O	Boolean		true: Enable H323 H245 tunneling false: Disable H323 H245 tunneling
h323H245InSetup	O	Boolean		true: Enable H323 H245 in Setup false: Disable H323 H245 in Setup
h323T38	O	Boolean		true: Enable H323 T38 false: Disable H323 T38
sipTimer	O	Boolean		true: Enable SIP Timer (RFC4028) false: Disable SIP Timer
sip100Rel	O	Boolean		true: Enable SIP 100rel false: Disable SIP 100rel
sipT38	O	Boolean		true: Enable SIP T38 false: Disable SIP T38
sipDisplay	O	Boolean		true: Include Display false: Exclude Display
sipRemotePartyId	O	Boolean		true: Include RemotePartyId false: Exclude RemotePartyId
sipPrivacy	O	Integer		0: None 1: Pass through 2: id
sipPPreferedIdentity	O	Integer		0: None 1: Pass through 2: Caller number
sipPAssertedIdentity	O	Integer		0: None 1: Pass through 2: Caller number
groupE164Change	O	Boolean		true: Enable Group E164

				Change false: Disable Group E164 Change
callerAllowLength	O	Integer		Mask of Caller Allow Length 0: Allow All Length 1<x: Allow Length is x (x < 32)
calleeAllowLength	O	Integer		Mask of Callee Allow Length 0: Allow All Length 1<x: Allow Length is x (x < 32)
callerLimitE164GroupsAllow	O	Boolean		true: Allow callerLimitE164Groups false: Forbidden callerLimitE164Groups
callerLimitE164Groups	O	String	255	Caller List, separate by comma
calleeLimitE164GroupsAllow	O	Boolean		true: Allow calleeLimitE164Groups false: Forbidden calleeLimitE164Groups
calleeLimitE164Groups	O	String	255	Callee List, separate by comma
h323G729SendMode	O	Integer		H323 G729 Negotiation Mode 0: Auto, keep original G729 codec 1: G729, treat G729a or G729 as G729 2: G729a, treat G729a or G729 as G729a 3: G729&G729a, treat G729

				or G729a as G729 and G729a
sipG729SendMode	O	Integer		SIP G729 Negotiation Mode 0: Auto, keep original G729 codec 1: G729, treat G729a or G729 as G729 2: G729a, treat G729a or G729 as G729a 3: G729&G729a, treat G729 or G729a as G729 and G729a
sipG729Annexb	O	Integer		G729 annexb 0: Auto 1: annex=yes 2: annex=no 3: no annex 4: transmit annex
sipG723Annexa	O	Integer		G723 annexa 0: Auto 1: annex=yes 2: annex=no 3: no annex 4: transmit annex
h323CodecAssign	O	Boolean		true: Assign H323 Codecs false: Auto Negotiation
h323Codecs	O	Vector<String>		H323 Codec List
sipCodecAssign	O	Boolean		true: Assign SIP Codecs false: Auto Negotiation
sipCodecs	O	Vector<String>		SIP Codec List
feerateRestrict	O	Boolean		true: Check Callee Fee Rate false: No Check

leastCostRouting	O	Boolean		(feerateRestrict must be true) true: On false: Off
minProfitPercentEnable	O	Boolean		Enable Min Profit Percent
minProfitPercent	O	Integer		Min Profit Rate e.g. 10 means 10% Range: -10000 to 10000
maxSecondRatesEnable	O	Boolean		Enable Max Second Rate
maxSecondRates	O	Integer		Max Second Rates e.g. if minute rate is 0.6, set this value as 0.01
enablePhoneDisplay	O	Boolean		true: Use phone display number as caller false: Use phone number as caller
clearingAccountUseCalloutE164	O	Boolean		true: Use Callee after rewrite as Clearing Account false: Use Callee before rewrite as Clearing Account
softswitchName	O	String	64	Soft Switch Name
forwardSignalRewriteE164GroupEnable	O	Boolean		true: Enable Forward Signal Rewrite false: Disable Forward Signal Rewrite
forwardSignalRewriteE164Group	O	String	255	Forward Signal Rewrite E164 Group

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

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## 2.17Delete Routing Gateway

<http://VOSIP/external/server/DeleteGatewayRouting>

### Request Format

Parameter	M/O	Type	Length	Description
name	M	String		Routing Gateway Name

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

## 2.18Get Routing Gateway

<http://VOSIP/external/server/GetGatewayRouting>

### Request Format

Parameter	M/O	Type	Length	Description
names	M	String []		Gateway Name Null: All

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoGatewayRoutings	O	InfoGatewayRouting []		Routing Gateway Information

### InfoGatewayRouting Format

Parameter	M/O	Type	Length	Description
name	M	String	64	Routing Gateway Name
prefix	M	String		Gateway Prefix
prefixStyle	M	Integer		Prefix Mode 0: Terminal 1: Continual
password	M	String		Gateway Password Default: Random Create
customerPassword	M	String		Self Service Password
gatewayGroups	M	String		Gateway Groups
capacity	M	Integer		Line Limit
lockType	M	Integer		Lock Type 0: No Lock 3: Lock All Default: 0
priority	M	Integer		Priority

registerType	M	Integer		Register Type 0: Static 1: Dynamic 2: Register
remotelp	M	String	64	IP
rtpForwardType	M	Integer		Media Proxy 0: Auto 1: Enable 2: Disable Default: 0
encrypt	M	Boolean		true: Encrypt false: No Encrypt
protocol	M	Integer		Protocol 0: H323 1: SIP
signalPort	M	Integer		Signaling Port H323 Default: 1720 SIP Default: 5060
localIp	M	String	64	Local IP Blank: Auto
mediaCheckDirection	M	Integer		RTP Interrupt Detection Mode 0: No Detect 1: Detect whether VOS has sent RTP to Remote 2: Detect whether VOS has received Remote RTP 3: Detect Both Side's RTP Default: 0
maxCallDurationLower	M	Integer		-1: Use System Parameter 0: No limit
maxCallDurationUpper	M	Integer		-1: Use System Parameter 0: No limit



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calleeE164Restrict	M	Integer		Callee Limit 0: No Limit 1: Limit Callee is Phone 2: Limit Callee not Phone
callerE164CheckEnable	M	Boolean		true: Enable Caller Check false: Disable Caller Check
callerE164CheckCity	M	Boolean		true: Enable Caller City Check false: Disable Caller City Check
callerE164CheckMobile	M	Boolean		true: Enable Caller Mobile Check false: Disable Caller Mobile Check
callerE164CheckOther	M	Boolean		true: Enable Caller Other Check false: Disable Caller Other Check
calleeE164CheckEnable	M	Boolean		true: Enable Callee Check false: Disable Callee Check
calleeE164CheckCity	M	Boolean		true: Enable Callee City Check false: Disable Callee City Check
calleeE164CheckMobile	M	Boolean		true: Enable Callee Mobile Check false: Disable Callee Mobile Check
calleeE164CheckOther	M	Boolean		true: Enable Callee Other Check false: Disable Callee Other Check

callinCallerPrefixesAllow	M	Boolean		true: Enable callinCallerPrefixes false: Disable callinCallerPrefixes
callinCallerPrefixes	M	String	65535	Caller Prefixes List
callinCalleePrefixesAllow	M	Boolean		true: Enable callinCalleePrefixes false: Disable callinCalleePrefixes
callinCalleePrefixes	M	String	65535	Callee Prefixes List
rewriteRulesInCaller	M	String	65535	Caller Rewrite Rule
rewriteRulesInCallee	M	String	65535	Callee Rewrite Rule
rewriteRulesInMobileAreaAllow	M	Boolean		true: Enable rewriteRulesInMobileArea false: Disable rewriteRulesInMobileArea
rewriteRulesInMobileArea	M	String	65535	Mobile Area Rewrite Rules Settings, separate by comma
timeoutSetup	M	Integer		H323 Setup Timeout(Unit: Second) 0: Use System Parameter
timeoutCallProceeding	M	Integer		H323 CallProceeding Timeout(Unit: Second) 0: Use System Parameter
timeoutCallProceedingOlc	M	Integer		H323 CallProceeding include Open Logical Channel Timeout(Unit: Second) 0: Use System Parameter
timeoutAlerting	M	Integer		H323 Alerting Timeout(Unit: Second) 0: Use System Parameter

timeoutInvite	M	Integer		SIP Invite Timeout(Unit: Second) 0: Use System Parameter
timeoutTrying	M	Integer		SIP Trying Timeout(Unit: Second) 0: Use System Parameter
timeoutSessionProgressSdp	M	Integer		SIP SessionProgress include SDP Timeout(Unit: Second) 0: Use System Parameter
timeoutSessionProgress	M	Integer		SIP SessionProgress Timeout(Unit: Second) 0: Use System Parameter
timeoutRinging	M	Integer		SIP Ring Timeout(Unit: Second) 0: Use System Parameter
denyCallerCalleeAllow	M	Boolean		true: Enable denyCallerCallee false: Disable denyCallerCallee
denyCallerCallee	M	String	65535	Format: [<Caller>:<Callee>[,<Caller>:<Callee>]...] e.g.: 025: 010,021: 023
denySameCityCodesAllow	M	Boolean		true: Enable denySameCityCodes Setting false: Disable denySameCityCodes Setting
denySameCityCodes	M	String	65535	Deny Same City Codes Settings, use comma to separate

checkMobileAreaAllow	M	Boolean		true: Enable checkMobileArea Settings false: Disable checkMobileArea Settings
checkMobileArea	M	String	65535	Mobile Area Settings, use comma to separate
stopSwitchAfterOlc	M	Integer		Stop Switch Gateway After Open Logical Channel 0: Use System Parameter 1: Disable 2: Enable Default: 0
stopSwitchAfterSdp	M	Integer		Stop Switch Gateway After Received SDP 0: Use System Parameter 1: Disable 2: Enable Default: 0
stopSwitchAfterRtpStart	M	Integer		Stop Switch Gateway After Received RTP 0: Use System Parameter 1: Disable 2: Enable Default: 0
switchUntilConnect	M	Integer		Switch Gateway Until Connect 0: Use System Parameter 1: Disable 2: Enable Default: 0
sipResponseAddressMethod	M	Integer		SIP Response Address 0: Response to Request Address 1: Response to Request IP

				use port from Via
sipRequestAddressMethod	M	Integer		SIP Request Address 0: To Original Address 1: To Original IP and Port from Contact 2: To Contact
dtmfSendMethodH323	M	Integer		0: Auto 10: RFC2833 20: H.245 alphanumeric 30: H.245 signal 40: Q.931 keypad 60: Off
dtmfSendMethodSIP	M	Integer		0: Auto 10: RFC2833 50: SIP Info 60: Off
dtmfReceiveMethod	M	Integer		0: All 10: RFC2833 20: Signaling 30: Off
dtmfSendPayloadTypeH323	M	Integer		Payload Type for H323 DTMF Send
dtmfSendPayloadTypeSIP	M	Integer		Payload Type for SIP DTMF Send
dtmfReceivePayloadType	M	Integer		Payload Type for DTMF Receive
q931NumberingPlan	M	Integer		Q931NumberingPlan -1: Use System Parameter 0: UnknownPlan 1: ISDNPlan 3: DataPlan 4: TelexPlan 8: NationalStandardPlan 9: PrivatePlan

				15: ReservedPlan
q931NumberType	M	Integer		Q931NumberType -1: Use System Parameter 0: UnknownType 1: InternationalType 2: NationalType 3: NetworkSpecificType 4: SubscriberType 6: AbbreviatedType 7: ReservedType
q931PresentationIndicator	M	Integer		Q931PresentationIndicator -1: Use System Parameter 0: Presentation allowed 1: Presentation restricted 2: Number not available due to interworking 3: Reserved 4: None
q931ScreeningIndicator	M	Integer		Q931ScreeningIndicator -1: Use System Parameter 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	64	Clearing Account Name
h323FastStart	M	Boolean		true: Enable H323 fast start false: Disable H323 fast start
h323H245Tunneling	M	Boolean		true: Enable H323 H245 tunneling

				false: Disable H323 H245 tunneling
h323H245InSetup	M	Boolean		true: Enable H323 H245 in Setup false: Disable H323 H245 in Setup
h323T38	M	Boolean		true: Enable H323 T38 false: Disable H323 T38
sipTimer	M	Boolean		true: Enable SIP Timer (RFC4028) false: Disable SIP Timer
sip100Rel	M	Boolean		true: Enable SIP 100rel false: Disable SIP 100rel
sipT38	M	Boolean		true: Enable SIP T38 false: Disable SIP T38
sipDisplay	M	Boolean		true: Include Display false: Exclude Display
sipRemotePartyId	M	Boolean		true: Include RemotePartyId false: Exclude RemotePartyId
sipPPreferredIdentity	M	Boolean		true: Include P-Preferred-Identity false: Exclude P-Preferred-Identity
sipPAssertedIdentity	M	Boolean		true: Include P-Asserted-Identity false: Exclude P-Asserted-Identity
groupE164Change	M	Boolean		true: Enable Group E164 Change false: Disable Group E164 Change

callerAllowLength	M	Integer		Mask of Caller Allow Length 0: Allow All Length 1<<x: Allow Length is x (x < 32)
calleeAllowLength	M	Integer		Mask of Callee Allow Length 0: Allow All Length 1<<x: Allow Length is x (x < 32)
callerLimitE164GroupsAllow	M	Boolean		true: Allow callerLimitE164Groups false: Forbidden callerLimitE164Groups
callerLimitE164Groups	M	String	255	Caller List, separate by comma
calleeLimitE164GroupsAllow	M	Boolean		true: Allow calleeLimitE164Groups false: Forbidden calleeLimitE164Groups
calleeLimitE164Groups	M	String	255	Callee List, separate by comma
h323G729SendMode	M	Integer		H323 G729 Negotiation Mode 0: Auto, keep original G729 codec 1: G729, treat G729a or G729 as G729 2: G729a, treat G729a or G729 as G729a 3: G729&G729a, treat G729 or G729a as G729 and G729a
sipG729SendMode	M	Integer		SIP G729 Negotiation Mode



				0: Auto, keep original G729 codec 1: G729, treat G729a or G729 as G729 2: G729a, treat G729a or G729 as G729a 3: G729&G729a, treat G729 or G729a as G729 and G729a
sipG729Annexb	M	Integer		G729 annexb 0: Auto 1: annex=yes 2: annex=no 3: no annex 4: transmit annex
sipG723Annexa	M	Integer		G723 annexa 0: Auto 1: annex=yes 2: annex=no 3: no annex 4: transmit annex
h323CodecAssign	M	Boolean		true: Assign H323 Codecs false: Auto Negotiation
h323Codecs	M	Vector<String>		H323 Codec List
sipCodecAssign	M	Boolean		true: Assign SIP Codecs false: Auto Negotiation
sipCodecs	M	Vector<String>		SIP Codec List
feerateRestrict	M	Boolean		true: Check Callee Fee Rate false: No Check
leastCostRouting	M	Boolean		(feerateRestrict must be true) true: On false: Off

---

minProfitPercent	M	Integer		(feerateRestrict must be true) -1: No limit Range: -1-9999 Default: -1
enablePhoneDisplay	M	Boolean		true: Use phone display number as caller false: Use phone number as caller
clearingAccountUseCallout E164	M	Boolean		true: Use Callee after rewrite as Clearing Account false: Use Callee before rewrite as Clearing Account
softswitchName	O	String	64	Soft Switch Name
forwardSignalRewriteE164 GroupEnable	O	Boolean		true: Enable Forward Signal Rewrite false: Disable Forward Signal Rewrite
forwardSignalRewriteE164 Group	O	String	255	Forward Signal Rewrite E164 Group

## 2.19Get Online Routing Gateway

<http://VOSIP/external/server/GetGatewayRoutingOnline>

### Request Format

Parameter	M/O	Type	Length	Description
names	O	String []		Gateway Name Null: All
softswitchName	O	String		Soft Switch Name Null: All

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoGatewayRoutingOnlines	O	InfoGatewayRoutingOnline []		Online Routing Gateway Information

### InfoGatewayRoutingOnline Format

Parameter	M/O	Type	Length	Description
id	M	Integer		Routing Gateway ID
name	M	String		Routing Gateway Name
prefix	M	String		Routing Gateway Prefix
currentCall	M	Integer		Current Call
capacity	M	Integer		Line Limit
asr	M	double		Average Success Ratio
acd	M	Long		Average Call Duration
remotelp	M	String		IP list, use comma to separate
natlp	O	String		NAT Address
localip	M	String		Register IP
registerTime	M	Long		Register Time (UTC) 0: Static Gateway

---

updateTime	M	Long		Last Update Time (UTC) 0: Static Gateway
keepTime	M	Long		Online Time (Second) 0: Static Gateway
cryptoType	M	Integer		Encryption Type 0: No Encryption 1: RC4
registerName	O	String		Register Name
softswitchName	M	String		Soft Switch Name
softswitchIp	M	String		Soft Switch IP

## 2.20Get Current Call

<http://VOSIP/external/server/GetCurrentCall>

Frequently use this function may cause performance become lower.

### Request Format

Parameter	M/O	Type	Length	Description
callerE164s	O	String []		Caller
calleeE164s	O	String []		Callee

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoCurrentCalls	O	InfoCurrentCall []		Current Call Information

### InfoCurrentCall Format

Parameter	M/O	Type	Length	Description
callerE164	M	String		Caller
calleeE164	M	String		Callee
callerGatewayId	M	String		Caller Gateway
calleeGatewayId	M	String		Callee Gateway
connectedTime	M	Long		Connected Time (UTC)
keepTime	M	Long		Above 0: Duration (Unit: Million Second) -1: Setup -2: CallProceeding -3: CallProceeding(RTP) -4: Progress -5: Alerting -6: Connect -7: Invite -8: Trying

				-9: SessionProgress -10: SessionProgress(SDP) -11: Ringing -12: Ok -13: Release -14: Transferring -15: TransferOk -16: TransferFailed -17: TransferCancel
callCodec	M	String		Call Codec
callerCodec	M	String		Caller Codec
calleeCodec	M	String		Callee Codec
callerRtpIp	M	String		Caller RTP Information
calleeRtpIp	M	String		Callee RTP Information
callerReceiveDtmf	M	Integer		Caller Receive DTMF Mode 0: Auto 10: RFC2833 20: H.245 alphanumeric 30: H.245 signal 40: Q.931 keypad 50: SIP Info 60: Off
callerSendDtmf	M	Integer		See callerReceiveDtmf
calleeReceiveDtmf	M	Integer		See callerReceiveDtmf
calleeSendDtmf	M	Integer		See callerReceiveDtmf
callerInfoRtpFlowAudio	M	InfoRtpFlow		Caller Audio Information
calleeInfoRtpFlowAudio	M	InfoRtpFlow		Callee Audio Information
callerInfoRtpFlowVideo	M	InfoRtpFlow		Caller Video Information
calleeInfoRtpFlowVideo	M	InfoRtpFlow		Callee Video Information
callerTerminal	M	String		Caller Device Name
calleeTerminal	M	String		Callee Device Name
callerCryptoType	M	Integer		Caller Encryption Type 0: No Encryption

---

				1: RC4
calleeCryptoType	M	Integer		Callee Encryption Type 0: No Encryption 1: RC4
callId	M	Integer		Call ID

InfoRtpFlow Format

Parameter	M/O	Type	Length	Description
rtpPackets	M	Integer		Receive Packets
rtpBytes	M	Integer		Receive Bytes
rtpDuration	M	Long		Duration (Unit: Micro Second)

## 2.21Pay

<http://VOSIP/external/server/Pay>

### Request Format

Parameter	M/O	Type	Length	Description
ownerName	M	String	64	Name
ownerType	M	Integer		Type 2: Account 6: Phone 11: Active Phone Card 25: Binded E164 44: Mapping Gateway
money	M	double		Amount
memo	O	String	255	Memo

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoPay	O	InfoPay		Pay Information

### InfoPay Format

Parameter	M/O	Type	Length	Description
account	M	String	64	Account Name
money	M	double		Balance
validTime	M	Long		Valid Time (UTC)
payMoney	M	double		Amount



## 2.22Create Suite

<http://VOSIP/external/server/CreateSuite>

### Request Format

Parameter	M/O	Type	Length	Description
name	M	String	64	Suite Name
rentPeriod	M	Integer		Rent Period
rentType	M	Integer		Rent Type 0: Day 1: Month 2: Year
rentFee	M	double		Rent Fee
giftMoney	M	double		Gift Money
infoGiftTimes	O	InfoGiftTime []		Gift Time
memo	O	String		Memo

### InfoGiftTime Format

Parameter	M/O	Type	Length	Description
prefix	M	String	65535	Area Prefix, separate by comma
startTime	M	Integer		Start Time (Seconds from 0:00) Default: 0 Range: 0-86400
endTime	M	Integer		Stop Time (Seconds from 0:00) Default: 0 Range: 0-86400
giftTime	M	Integer		Gift Time (Unit: second)
billingTime	M	Integer		Billing Period
memo	O	String	255	Memo

---

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer	0	Response Code
exception	O	String		Error Information
id	O	Integer		Suite Id

---

## 2.23Delete Suite

<http://VOSIP/external/server/DeleteSuite>

### Request Format

Parameter	M/O	Type	Length	Description
id	M	Integer		Suite Id
force	O	Integer		0: Normal delete, check dependence 1: Force delete, remove dependence

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

---

## 2.24Get Suite

<http://VOSIP/external/server/GetSuite>

### Request Format

Parameter	M/O	Type	Length	Description
ids	O	Integer []		Suite Id List Null: All

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoSuites	O	InfoSuite []		Suite Information

### InfoSuite Format

Parameter	M/O	Type	Length	Description
id	M	Integer		Suite Id
name	M	String		Suite Name
rentPeriod	M	Integer		Rent Period
rentType	M	Integer		Rent Type 0: Day 1: Month 2: Year
rentFee	M	double		Rent Fee
giftMoney	M	double		Gift Money
infoGiftTimes	O	InfoGiftTime []		Gift Time
memo	O	String		Memo

---

## 2.25Create Suite Order

<http://VOSIP/external/server/CreateSuiteOrder>

### Request Format

Parameter	M/O	Type	Length	Description
ownerName	M	String	64	Name
ownerType	M	Integer		Type 2: Account 6: Phone
suiteld	M	Integer		Suite Id
availableTime	M	Long		Available Time (UTC, Server Time Zone) 0: Current Day 0:00
expireTime	O	Long		Expire Time (UTC, Server Time Zone) Null: No Limit 9223372036854775807: No Limit

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
id	O	Integer		Suite Order Id, If success

---

## 2.26 Modify Suite Order

<http://VOSIP/external/server/ModifySuiteOrder>

### Request Format

Parameter	M/O	Type	Length	Description
id	M	Integer	64	Suite Order Id
expireTime	O	Long		Expire Time (UTC, Server Time Zone) Null: No Limit 9223372036854775807: No Limit

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

---

## 2.27Delete Suite Order

<http://VOSIP/external/server/DeleteSuiteOrder>

### Request Format

Parameter	M/O	Type	Length	Description
id	M	Integer		Suite Order Id

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

---

## 2.28Get Suite Order

<http://VOSIP/external/server/GetSuiteOrder>

### Request Format

Parameter	M/O	Type	Length	Description
ownerName	M	String	64	Name
ownerType	M	Integer		Type 2: Account 6: Phone

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoSuiteOrders	O	InfoSuiteOrder []		Suite Order Information

### InfoSuiteOrder Format

Parameter	M/O	Type	Length	Description
id	M	Integer		Suite Order Id
suiteld	M	Integer		Suite Id
availableTime	M	Long		Available Time (UTC, Server Time Zone)
expireTime	M	Long		Expire Time (UTC, Server Time Zone) 9223372036854775807: No Limit



## 2.29Get Current Suite

<http://VOSIP/external/server/GetCurrentSuite>

### Request Format

Parameter	M/O	Type	Length	Description
ownerName	M	String	64	Name
ownerType	M	Integer		Type 2: Account 6: Phone

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoCurrentSuites	O	InfoCurrentSuite []		Suite Order Information

### InfoCurrentSuite Format

Parameter	M/O	Type	Length	Description
id	M	Integer		Current Suite Id
suiteld	M	Integer		Suite Id
suiteOrderId	M	Integer		Suite Order Id
rentPeriod	M	Integer		Rent Period
rentType	M	Integer		Rent Type 0: Day 1: Month 2: Year
rentFee	M	double		Rent Fee
giftMoney	M	double		Gift Money
infoGiftTimes	O	InfoGiftTime []		Gift Time
memo	O	String		Memo

---

## 2.30Delete Current Suite

<http://VOSIP/external/server/DeleteCurrentSuite>

### Request Format

Parameter	M/O	Type	Length	Description
id	M	Integer	123	Current Suite Id

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

---

## 2.31 Create Active Phone Card

<http://VOSIP/external/server/CreateActivePhoneCard>

### Request Format

Parameter	M/O	Type	Length	Description
pin	M	String	64	Card Number
account	M	String	64	Card Account
password	O	String	64	Card Password
displayE164	O	String	64	Display Number
bindLimit	O	Integer		Bind Number Limit Null: No Limit
memo	O	String	255	Memo

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
password	O	Integer		Request without password, system will generate automatically.

---

## 2.32 Modify Active Phone Card

<http://VOSIP/external/server/ModifyActivePhoneCard>

### Request Format

Parameter	M/O	Type	Length	Description
pin	M	String	64	Card Number
account	O	String	64	Card Account
password	O	String	64	Card Password
displayE164	O	String	64	Display Number
bindLimit	O	Integer		Bind Number Limit Null: No Limit
memo	O	String	255	Memo

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

---

### 2.33Delete Active Phone Card

<http://VOSIP/external/server/DeleteActivePhoneCard>

#### Request Format

Parameter	M/O	Type	Length	Description
pin	M	String	64	Card Number

#### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

## 2.34Get Active Phone Card

<http://VOSIP/external/server/GetActivePhoneCard>

### Request Format

Parameter	M/O	Type	Length	Description
pins	O	String []		Card Number List
accounts	O	String []		Account List

One of parameters is needed at least.

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoActivePhoneCards	O	InfoActivePhoneCard []		Active Phone Card Information

### InfoActivePhoneCard Format

Parameter	M/O	Type	Length	Description
pin	M	String	64	Card Number
account	M	String	64	Card Account
password	M	String	64	Card Password
displayE164	M	String	64	Display Number
bindLimit	M	Integer		Bind Number Limit Null: No Limit
activeTime	M	Long		Active Time (UTC)
memo	M	String	255	Memo

---

## 2.35 Create Binded E164

<http://VOSIP/external/server/CreateBindedE164>

### Request Format

Parameter	M/O	Type	Length	Description
e164	M	String	64	Bind Number
pin	M	String	64	Card Number
displayE164	O	String	64	Display Number
rewriteRulesOutCallee	O	String	65535	Call Out Rewrite Rule
language	O	String	64	Language
memo	O	String	255	Memo

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

---

## 2.36Modify Binded E164

<http://VOSIP/external/server/ModifyBindedE164>

### Request Format

Parameter	M/O	Type	Length	Description
e164	M	String	64	Bind Number
pin	O	String	64	Card Number
displayE164	O	String	64	Display Number
rewriteRulesOutCallee	O	String	65535	Call Out Rewrite Rule
language	O	String	64	Language
memo	O	String	255	Memo

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information



---

## 2.37Delete Binded E164

<http://VOSIP/external/server/DeleteBindedE164>

### Request Format

Parameter	M/O	Type	Length	Description
e164	M	String	64	Bind Number

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

## 2.38Get Binded E164

<http://VOSIP/external/server/GetBindedE164>

### Request Format

Parameter	M/O	Type	Length	Description
e164s	O	String []		Binded Number List
pin	O	String	64	Card Number
account	O	String	64	Account

One of parameters is needed at least.

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoBindedE164s	O	InfoBindedE164 []		Binded Number Information

### InfoBindedE164 Format

Parameter	M/O	Type	Length	Description
e164	M	String	64	Binded Number
pin	M	String	64	Card Number
account	M	String	64	Account
displayE164	M	String	64	Display Number
rewriteRulesOutCallee	M	String	65535	Call Out Rewrite Rule
bindTime	M	Long		Bind Time (UTC)
language	M	String	64	Language
memo	M	String	255	Memo

---

## 2.39Get Fee Rate Group

<http://VOSIP/external/server/GetFeeRateGroup>

### Request Format

Parameter	M/O	Type	Length	Description
names	O	String []		Fee Rate Group List

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoFeeRateGroups	O	InfoFeeRateGroup []		Fee Rate Group Information

### InfoFeeRateGroup Format

Parameter	M/O	Type	Length	Description
name	M	String	64	Fee Rate Group Name
memo	M	String	64	Memo

---

## 2.40Create Fee Rate Group

<http://VOSIP/external/server/CreateFeeRateGroup>

### Request Format

Parameter	M/O	Type	Length	Description
name	M	String	64	Fee Rate Group Name
fakeMinute	O	Integer		Equivalent Time to 60 Seconds for Calling Card
memo	O	String		Memo

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

---

## 2.41 Modify Fee Rate Group

<http://VOSIP/external/server/ModifyFeeRateGroup>

### Request Format

Parameter	M/O	Type	Length	Description
name	M	String	64	Fee Rate Group Name
fakeMinute	O	Integer		Equivalent Time to 60 Seconds for Calling Card
memo	O	String		Memo

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

---

## 2.42Delete Fee Rate Group

<http://VOSIP/external/server/DeleteFeeRateGroup>

### Request Format

Parameter	M/O	Type	Length	Description
name	M	String	64	Fee Rate Group Name

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

## 2.43Get Fee Rate

<http://VOSIP/external/server/GetFeeRate>

### Request Format

Parameter	M/O	Type	Length	Description
feeRateGroup	M	String	64	Fee Rate Group
areaCodes	O	String []		Area Code

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoFeeRates	O	InfoFeeRate []		Fee Rate Information

### InfoFeeRate Format

Parameter	M/O	Type	Length	Description
feePrefix	M	String	64	Rate Prefix
areaCode	M	String	64	Area Prefix
type	M	Integer		Rate Type 1: Net 2: Local 4: Domestic 5: International
areaName	M	String	64	Area Name
infoFeeRateSections	M	InfoFeeRateSection []		Section Rate
fee	M	double		Billing Rate
period	M	Integer		Billing Cycle
lockType	M	Integer		Lock Type 0: No Lock 1: Lock
ivrFee	M	double		Billing Rate for Calling Card
ivrPeriod	M	Integer		Billing Cycle for Calling

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				Card Prompt
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InfoFeeRateSection Format

Parameter	M/O	Type	Length	Description
fee	M	double		Money Amount
time	M	Integer		Charged Duration
position	M	Integer		Serial Number



---

## 2.44Get E164 Convert

<http://VOSIP/external/server/GetE164Convert>

### Request Format

Parameter	M/O	Type	Length	Description
account	O	String	64	Account Number
e164	O	String	64	Phone Number

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoE164Converts	O	InfoE164Convert []		E164 Convert Information

### InfoE164Convert Format

Parameter	M/O	Type	Length	Description
account	M	String		Account Name
e164	M	String		Phone Number
mappingGatewayCallerE164	M	String		Mapping Gateway Caller
routingGatewayCalleeE164	M	String		Routing Gateway Callee
memo	M	String		Memo

## 2.45Get Pay History

<http://VOSIP/external/server/GetPayHistory>

### Request Format

Parameter	M/O	Type	Length	Description
account	O	String	64	Account Number
agentAccount	O	String	64	Agent Account Number
beginTime	M	String		Begin Time Format: yyyyMMddHHmmss
endTime	M	String		End Time Format: yyyyMMddHHmmss

One of parameters is needed at least.

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoPayHistorys	O	InfoPayHistory[]		Pay History Information

### InfoPayHistory Format

Parameter	M/O	Type	Length	Description
account	M	String		Account Name
fee	M	double		Money Amount
type	M	Integer		Type 0: Payment 1: Credit 2: Create Account 3: Make Zero
payType	M	Integer		Pay Type 0: Cash

---

				2: Phone Card 5: Other
customerMoney	M	double		Account Balance After Pay
payTime	M	Long		Pay Time (UTC)

## 2.46Get Cdr

<http://VOSIP/external/server/GetCdr>

### Request Format

Parameter	M/O	Type	Length	Description
accounts	M	String []	64	Account Number List
callerE164	O	String	64	Caller
calleeE164	O	String	64	Callee
callerGateway	O	String	64	Caller Gateway
calleeGateway	O	String	64	Callee Gateway
beginTime	M	String		Begin Time Format: yyyyMMdd
endTime	M	String		End Time Format: yyyyMMdd

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoCdrs	O	InfoCdr []		CDR Information

### InfoCdr Format

Parameter	M/O	Type	Length	Description
callerE164	M	String		Billing Caller
callerAccessE164	M	String		Access Caller
callerProductId	M	String		Caller Device Name
callerToGatewayE164	M	String		Call Out Caller
callerGateway	M	String		Caller Gateway
callerip	M	String		Caller IP
calleeE164	M	String		Billing Callee
calleeAccessE164	M	String		Access Callee
calleeProductId	M	String		Callee Device Name

calleeToGatewayE164	M	String		Call Out Callee
calleeGateway	M	String		Callee Gateway
calleeip	M	String		Calle IP
start	M	Long		Start Time (UTC)
stop	M	Long		Stop Time (UTC)
holdTime	M	Integer		Call Duration (Second)
feeTime	M	Integer		Fee Time (Second)
fee	M	double		Fee
feePrefix	M	String		Billing Prefix
suiteFee	M	double		Suite Fee
suiteFeeTime	M	Integer		Suite Gift Time (Second)
agentFee	M	double		Agent Fee
agentFeeTime	M	Integer		Agent Fee Time (Second)
agentFeePrefix	M	String		Agent Billing Prefix
agentSuiteFee	M	double		Agent Suite Fee
agentSuiteFeeTime	M	Integer		Agent Gift Time (Second)
callLevel	M	Integer		Call Level 1: Net 2: Local 4: Domestic 5: International
account	M	String		Account Number
accountName	M	String		Account Name
agentAccount	M	String		Agent Account Number
agentName	M	String		Agent Account Name
endDirection	M	Integer		Hangup Side 0: Caller 1: Caller 2: Server
endReason	M	Integer		End Reason
calleeBilling	M	Integer		Billing 0: Caller Billing 1: Callee Billing

---

				2: External Billing
billingMode	M	Integer		Billing Mode 0: By Phone Account 1: By Mapping Gateway Account 2: By Binded Number Account 3: By Active Phone Card Account

## 2.47Get Customer Fee Report

<http://VOSIP/external/server/GetReportCustomerFee>

### Request Format

Parameter	M/O	Type	Length	Description
accounts	M	String []		Account Number List
period	M	Integer		Statistical Cycle (Day) -2: By Month
beginTime	M	String		Begin Time Format: yyyyMMdd
endTime	M	String		End Time Format: yyyyMMdd

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoReportCustomerFees	O	InfoReportCustomerFee []		Customer Fee Report Information

### InfoReportCustomerFee Format

Parameter	M/O	Type	Length	Description
beginTime	M	Long		Begin Time (UTC)
endTime	M	Long		End Time (UTC)
account	M	String		Account Number
accountName	M	String		Account Name
cdrCount	M	Long		Total CDR
totalFee	M	double		Total Fee
totalTime	M	Long		Total Time (Second)
totalSuiteFee	M	double		Total Suite Fee
totalSuiteFeeTime	M	Long		Total Suite Fee Time (Second)

---

netFee	M	double		Total Net Fee
netTime	M	Long		Total Net Fee Time (Second)
netCount	M	Integer		Total Net CDR
localFee	M	double		Total Local Fee
localTime	M	Long		Total Local Fee Time (Second)
localCount	M	Integer		Total Local CDR
domesticFee	M	double		Total Domestic Fee
domesticTime	M	Long		Total Domestic Fee Time (Second)
domesticCount	M	Integer		Total Domestic CDR
internationalFee	M	double		Total International Fee
internationalTime	M	Long		Total International Fee Time (Second)
internationalCount	M	Integer		Total International CDR



## 2.48Get Phone Fee Report

<http://VOSIP/external/server/GetReportPhoneFee>

### Request Format

Parameter	M/O	Type	Length	Description
accounts	M	String	64	Account Number
e164s	O	String []		Phone Number List
period	M	Integer		Statistical Cycle (Day) -2: By Month
beginTime	M	String		Begin Time Format: yyyyMMdd
endTime	M	String		End Time Format: yyyyMMdd

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoReportPhoneFees	O	InfoReportPhoneFee []		Phone Fee Report Information

### InfoReportPhoneFee Format

Parameter	M/O	Type	Length	Description
beginTime	M	Long		Begin Time (UTC)
endTime	M	Long		End Time (UTC)
e164	M	String		Phone Number
calleeBilling	M	Integer		0: Caller Billing 1: Callee Billing
account	M	String		Account Number
accountName	M	String		Account Name
agentAccount	M	String		Agent Account
cdrCount	M	Long		Total CDR

---

totalFee	M	double		Total Fee
totalTime	M	Long		Total Time (Second)
totalSuiteFee	M	double		Total Suite Fee
totalSuiteFeeTime	M	Long		Total Suite Fee Time (Second)
netFee	M	double		Total Net Fee
netTime	M	Long		Total Net Fee Time (Second)
netCount	M	Integer		Total Net CDR
localFee	M	double		Total Local Fee
localTime	M	Long		Total Local Fee Time (Second)
localCount	M	Integer		Total Local CDR
domesticFee	M	double		Total Domestic Fee
domesticTime	M	Long		Total Domestic Fee Time (Second)
domesticCount	M	Integer		Total Domestic CDR
internationalFee	M	double		Total International Fee
internationalTime	M	Long		Total International Fee Time (Second)
internationalCount	M	Integer		Total International CDR

## 2.49Get Customer Location Fee Report

<http://VOSIP/external/server/GetReportCustomerLocationFee>

### Request Format

Parameter	M/O	Type	Length	Description
account	M	String	64	Account Number
areaCode	O	String	64	Area Prefix
period	M	Integer		Statistical Cycle (Day) -2: By Month
beginTime	M	String		Begin Time Format: yyyyMMdd
endTime	M	String		End Time Format: yyyyMMdd

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoReportCustomerLocationFees	O	InfoReportCustomerLocationFee []		Customer Location Fee Report Information

### InfoReportCustomerLocationFee Format

Parameter	M/O	Type	Length	Description
beginTime	M	Long		Begin Time (UTC)
endTime	M	Long		End Time (UTC)
areaCode	M	String		Area Prefix
areaName	M	String		Area Name
account	M	String		Account Number
accountName	M	String		Account Name
agentAccount	M	String		Agent Account
cdrCount	M	Long		Total CDR
totalFee	M	double		Total Fee

---

totalTime	M	Long		Total Local Fee Time (Second)
totalSuiteFee	M	double		Total Suite Fee
totalSuiteFeeTime	M	Long		Total Suite Fee Time (Second)

## 2.50Create CDR

<http://VOSIP/external/server/CreateCdr>

### Request Format

Parameter	M/O	Type	Length	Description
billingMode	M	Integer		Billing Mode 0: By callerE164's Phone Account 1: By callerGatewayId's Mapping Gateway Account 2: By callerE164's Binded Number Account 3: By callerE164's Active Phone Card Account
account	O	String		Billing Account Null: Choose By Billing Mode
callerE164	O	String	64	Caller
calleeE164	O	String	64	Callee
callerIp	O	String	64	Caller IP
callerGatewayId	O	String	64	Caller Gateway
callerProductId	O	String	64	Caller Device Name
callerToGatewayE164	O	String	64	Call Out Caller
calleeIp	O	String	64	Callee IP
calleeGatewayId	O	String	64	Callee Gateway
calleeProductId	O	String	64	Callee Device Name
calleeToGatewayE164	O	String	64	Call Out Callee
startTime	O	Long		Begin Time (UTC) Null: Use Server Current Time
stopTime	O	Long		End Time (UTC) Null: Use startTime

---

billingTime	M	Integer		Billing Time (Calculate by calleeE164's billing period)
endDirection	O	Integer		Hangup Side 0: Caller 1: Caller 2: Server
endReason	O	Integer		End Reason
flowNo	O	Long		-1: Create by System >=0: Use the number as primary key, if conflict will not billing

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

---

## 2.51Get Customer Phone Book

<http://VOSIP/external/server/GetCustomerPhoneBook>

### Request Format

Parameter	M/O	Type	Length	Description
account	O	String	64	Account Number
e164	O	String	64	Phone Number

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer	0	Response Code
exception	O	String		Error Information
infoCustomerPhoneBooks	O	InfoCustomerPhoneBook []		Customer Phone Book Information

### InfoCustomerPhoneBook Format

Parameter	M/O	Type	Length	Description
e164	M	String	64	Phone Number
shortE164s	M	String[]		Short Number List
name	M	String		Name
department	M	String		Department
deviceType	M	Integer		Device Type 0: None 1: Mobile 2: Phone 3: IP Phone
addressType	M	Integer		Address Type 0: None 1: Office 2: Home
type	M	Integer		Type 0: User Create

---

				1: Auto Save
lastUpdateTime	M	Long		Last Update Time (UTC)
memo	M	String		Memo



## 2.52Create Customer Phone Book

<http://VOSIP/external/server/CreateCustomerPhoneBook>

### Request Format

Parameter	M/O	Type	Length	Description
account	M	String	64	Account Number
e164	M	String	64	Phone Number
overwrite	O	Boolean		true: if number exists, over write the old one false: if number exists, show error
shortE164s	O	String[]		Short Number List
name	O	String	64	Name
department	O	String	64	Department
deviceType	O	Integer		Device Type 0: None 1: Mobile 2: Phone 3: IP Phone
addressType	O	Integer		Address Type 0: None 1: Office 2: Home
type	O	Integer		Type 0: User Create 1: Auto Save
memo	O	String	255	Memo

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

---

## 2.53Modify Customer Phone Book

<http://VOSIP/external/server/ModifyCustomerPhoneBook>

### Request Format

Parameter	M/O	Type	Length	Description
account	M	String	64	Account Number
e164	M	String	64	Phone Number
newE164	O	String	64	New Phone Number
shortE164s	O	String[]		Short Number List
name	O	String	64	Name
department	O	String	64	Department
deviceType	O	Integer		Device Type 0: None 1: Mobile 2: Phone 3: IP Phone
addressType	O	Integer		Address Type 0: None 1: Office 2: Home
type	O	Integer		Type 0: User Create 1: Auto Save
memo	O	String	255	Memo

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

---

## 2.54Delete Customer Phone Book

<http://VOSIP/external/server/DeleteCustomerPhoneBook>

### Request Format

Parameter	M/O	Type	Length	Description
account	M	String	64	Account Number
e164s	M	String[]	64	Phone Number List

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

---

## 2.55Get Soft Switch

<http://VOSIP/external/server/GetSoftSwitch>

### Request Format

Parameter	M/O	Type	Length	Description
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### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoSoftSwitches	O	InfoSoftSwitch []		Soft Switch Information

### InfoSoftSwitch Format

Parameter	M/O	Type	Length	Description
name	M	String		Soft Switch Name
identification	M	String		Soft Switch ID
createTime	M	Long		Create Time (UTC)
accessTime	O	Long		Access Time (UTC)
accessAddress	O	String		Access IP
memo	M	String		Memo

---

## 2.56Get Performance

<http://VOSIP/external/server/GetPerformance>

### Request Format

Parameter	M/O	Type	Length	Description
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### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoPerformance	O	InfoPerformance		Performance Information

### InfoPerformance Format

Parameter	M/O	Type	Length	Description
callSize	M	Integer		Current Call
cdrQueueSize	M	Integer		CDR Queue Size

---

## 2.57 Pay By Phone Card

<http://VOSIP/external/server/PayByPhoneCard>

### Request Format

Parameter	M/O	Type	Length	Description
ownerName	M	String	64	Name
ownerType	M	Integer		Type 2: Account 6: Phone 11: Active Phone Card 25: Binded E164 44: Mapping Gateway
pin	M	String		Card Number
password	O	String		Card Password Null: Check Pin Only
memo	O	String	255	Memo

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoPay	O	InfoPay		Pay Information

---

## 2.58Phone Card Active

<http://VOSIP/external/server/PhoneCardActive>

### Request Format

Parameter	M/O	Type	Length	Description
pin	M	String		Card Number
password	O	String		Card Password Null: Check Pin Only
bindedE164	O	String	64	Binded Number

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

---

## 2.59 Callback

<http://VOSIP/external/server/CallBack>

### Request Format

Parameter	M/O	Type	Length	Description
callerE164	M	String		Caller (Input by User)
calleeE164s	M	String		Callee (Use "," to separate numbers)
accessE164	M	String		Access Number (Number of phone, which provides callback service.)
accessE164Password	M	String		Access Password (Phone's password)
callbackBillingE164	O	String		Call Back Charge Number
callbackBillingPassword	O	String		Call Back Charge Password
calloutBillingE164	O	String		Callout Charge Number
calloutBillingPassword	O	String		Callout Charge Password

### Additional Description

Audio service is decided by accessE164. If password is set, system will do verify.

#### Callback Billing

##### First Line Billing Mode

1. Access Number's Phone: Use accessE164's Phone Account
2. In-use Phone Card: Order: callbackBillingE164's Binded Number Account, callbackBillingE164's Active Phone Card Account
3. Binded Number|Active Phonecard|Platform's Phone|Access Number's Phone: Order: callbackBillingE164's Binded Number Account, callbackBillingE164's Active Phone Card Account, callbackBillingE164's Phone Account, accessE164's Phone Account
4. Platform Phone: Use callbackBillingE164's Phone Account

##### Second Line Billing Mode



- 
- 1.Access Number's Phone: Use accessE164's Phone Account
  - 2.In-use Phone Card: Order: calloutBillingE164's Binded Number Account, calloutBillingE164's Active Phone Card Account
  - 3.Platform Phone: Use calloutBillingE164's Phone Account

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

---

## 2.60Play Audio

<http://VOSIP/external/server/PlayAudio>

### Request Format

Parameter	M/O	Type	Length	Description
audioes	M	String		Audio List, separate by comma
language	O	String		Default: Use accessE164's language
callee	M	String		Callee
accessE164	M	String		Access Number (Number of phone, which provides callback service.)
accessE164Password	M	String		Access Password (Phone's password)

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

## 2.61Get Available Time

<http://VOSIP/external/server/GetAvailableTime>

### Request Format

Parameter	M/O	Type	Length	Description
billingName	M	String		Billing Name
billingMode	M	Integer		0: Phone 1: Mapping Gateway 2: Binded Number 3: Phone Card 4: Use phone card first, then mapping gateway
calleeE164	M	String		Callee Number
calleeEndpointType	O	Integer		0: Phone 1: Mapping Gateway
routingGateway	O	String	64	Routing Gateway Name
calleeToGatewayE164	O	String	64	Number after rewrite by routing gateway (Used when routing gateway check remain money of clearing account)

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
InfoAvailableTime	O	InfoAvailableTime		Available Time Information

### InfoAvailableTime Format

Parameter	M/O	Type	Length	Description
account	O	String		Account Number
accountName	O	String		Account Name

---

accountMoney	O	Double		Account Balance (Exclude Suite's gift money)
timeRemain	M	Integer		>0: Remain Time <0: End Reason
timeRemainRoutingGateway	O	Integer		>0: Routing Gateway's Remain Time <0: Routing Gateway's End Reason

## 2.62Get IVR Second Available Time

<http://VOSIP/external/server/GetIvrSecondAvailableTime>

### Request Format

Parameter	M/O	Type	Length	Description
billingName	M	String		Billing Name
billingMode	M	Integer		0: Phone 1: Active Phone Card 2: Auto, Binded Number > Phone Card Number > Phone Number 3: Caller's Phone
calleeE164	M	String		Callee Number
mergeBillingType	O	Integer		0: No merge 1: merge access billing to second line 2: merge caller billing to second line
mergeE164	O	String	64	Merge Number
firstE164	O	String	64	First line's callee
firstConnectTime	O	Long		First line's connect time (UTC)
firstStopTime	O	Long		First line's stop time (UTC)

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infolvrSecondAvailableTime	O	InfolvrSecondAvailableTime		Available Time Information

### InfolvrSecondAvailableTime Format

Parameter	M/O	Type	Length	Description
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account	O	String		Account Number
accountName	O	String		Account Name
accountMoney	O	Double		Account Balance (Exclude Suite's gift money)
timeRemain	M	Integer		>0: Remain Time <0: End Reason

## 2.63Get Consumption

<http://VOSIP/external/server/GetConsumption>

### Request Format

Parameter	M/O	Type	Length	Description
account	O	String	64	Account Number
agentAccount	O	String	64	Agent Account Number
beginTime	M	String		Format: yyyyMMddHHmmss
endTime	M	String		Format: yyyyMMddHHmmss

One of "account" or "agentAccount" is needed.

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoConsumptions	O	InfoConsumption[]		Consumption Information

### InfoConsumption Format

Parameter	M/O	Type	Length	Description
account	M	String		Account Number
money	M	Double		Account Consumption
customerMoney	M	Double		Account Balance
type	M	Integer		0: Suite Rent 1: Phone Month Rent 2: Phone Under Consumption 3: Suite Under Consumption
consumptionName	M	Integer		Source
time	M	Long		Time (UTC)

---

## 2.64Get All Customers

<http://VOSIP/external/server/GetAllCustomers>

### Request Format

Parameter	M/O	Type	Length	Description
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### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
accounts	O	String[]		Account List



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## 2.65Reserve CalleeE164

<http://VOSIP/external/server/ReserveCalleeE164>

### Request Format

Parameter	M/O	Type	Length	Description
callerE164	M	String		Caller Number
calleeE164	M	String		Callee Number
accessE164	M	String		Access Number (Number of phone, which provides callback service.)
accessE164Password	M	String		Access Password (Phone's password)

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

---

## 2.66Create LimitedE164

<http://VOSIP/external/server/CreateLimitedE164>

### Request Format

Parameter	M/O	Type	Length	Description
limitE164GroupName	M	String	255	LimitedE164 group name
infoLimitE164s	M	InfoLimitE164 []		LimitedE164 group list

### InfoLimitE164 format

Parameter	M/O	Type	Length	Description
e164	M	String	64	Number
memo	O	String	255	Memo

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

## 2.67Create IvrAudio

<http://VOSIP/external/server/CreateIvrAudio>

### Request Format

Parameter	M/O	Type	Length	Description
type	M	Integer		Audio Type 0:public audio 1:internal audio 2:polyphonic ringtone 3:ippbx audio 4:direct/callback audio 5:valuadded audio 6:alarm prompt audio 7:voice mail audio
name	M	String		Audio name
language	O	String		Language
ivrServiceName	O	String		Ivr service name
memo	O	String		Memo

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
id	O	Integer		Ivr audio identification

---

## 2.68Modify IvrAudio

<http://VOSIP/external/server/ModifyIvrAudio>

### Request Format

Parameter	M/O	Type	Length	Description
id	M	Integer		Ivr audio identification
language	O	String		Language
ivrServiceName	O	String		Ivr service name
memo	O	String		Memo

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

---

## 2.69Delete IvrAudio

<http://VOSIP/external/server/DeleteIvrAudio>

### Request Format

Parameter	M/O	Type	Length	Description
id	M	Integer		Ivr audio identification

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

## 2.70 Get IvAudio

<http://VOSIP/external/server/GetIvrAudio>

### Request Format

Parameter	M/O	Type	Length	Description
type	M	Integer		Audio Type 0:public audio 1:internal audio 2:polyphonic ringtone 3:ippbx audio 4:direct/callback audio 5:valuadded audio 6:alarm prompt audio 7:voice mail audio
ids	O	Integer		Ivr audio identification list

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoIvrAudios	O	InfoIvrAudio []		Ivr audio list

### InfoIvrAudio Format

Parameter	M/O	Type	Length	Description
id	M	int		vr audio identification
type	M	Integer		Audio Type 0:public audio 1:internal audio 2:polyphonic ringtone 3:ippbx audio 4:direct/callback audio

---

				5:valuadded audio 6:alarm prompt audio 7:voice mail audio
name	M	String		Audio name
language	O	String		Language
ivrServiceName	O	String		Ivr service name
size	M	Integer		Memory size
memo	O	String		Memo

---

## 2.71 Modify IvrAudio Data

<http://VOSIP/external/server/ModifyIvrAudioData>

### Request Format

Parameter	M/O	Type	Length	Description
id	M	Integer		Ivr audio identification
data	M	String		Wav file, the byte stream should be converted to hexadecimal string File format: PCM_SIGNED 8000.0 Hz, 16 bit, mono, 2 bytes/frame, little-endian

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information



---

## 2.72Create E164Convert

<http://VOSIP/external/server/CreateE164Convert>

### Request Format

Parameter	M/O	Type	Length	Description
mappingGatewayCallerE164	M	String		Mapping gateway coming caller
e164	M	String		Phone number
routingGatewayCalleeE164	M	String		Routing gateway outbound number
memo	M	String		Memo

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
id	O	Integer		Identification

---

### 2.73Modify E164Convert

<http://VOSIP/external/server/ModifyE164Convert>

#### Request Format

Parameter	M/O	Type	Length	Description
id	M	Integer		Identification
mappingGatewayCallerE164	O	String		Mapping gateway coming caller
routingGatewayCalleeE164	O	String		Routing gateway outbound number
memo	O	String		Memo

#### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

---

## 2.74Delete E164Convert

<http://VOSIP/external/server/DeleteE164Convert>

### Request Format

Parameter	M/O	Type	Length	Description
id	M	Integer		Identification

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

---

## 2.75Disconnect Current Call

<http://VOSIP/external/server/DisconnectCurrentCall>

### Request Format

Parameter	M/O	Type	Length	Description
CallIds	M	Integer		Call Id

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

---

## 2.76GetAllPhoneOnline

<http://VOSIP/external/server/GetAllPhoneOnline>

### Request Format

Parameter	M/O	Type	Length	Description
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### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
E164s	O	String[]		All phone online list

---

## 2.77DeleteLimitE164

<http://VOSIP/external/server/DeleteLimitE164>

### Request Format

Parameter	M/O	Type	Length	Description
limitE164GroupName	M	String	255	LimitE164GroupName
e164s	M	String []		Number list

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

## 2.78Get Phone Card

<http://VOSIP/external/server/GetPhoneCard>

### Request Format

Parameter	M/O	Type	Length	Description
pin	M	String []	255	Card Number
Password	O	String		Password

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoPhoneCards	O	InfoPhoneCard []		Phone Card Information

### InfoPhoneCard Format

Parameter	M/O	Type	Length	Description
money	M	double		Money amount
limitMoney	M	double		Overdraft limited
bitsOfConfig	M	int		Fuction 1<<1:Create account 1<<2:Create account and active phone card 1<<3: Create account and phone number 1<<4:Recharge 1<<5:Replace account billing rate group 1<<6:Package joined in account package order 1<<7:Money charged into account balance

---

feeRateGroup	M	String		Group name
expireTime	M	Long		Exprie time(UTC)
usedTime	O	Long		Used time(UTC)
usedAccount	O	String		Used account
agentAccount	M	String		Agent Account
suiteNames	M	String []		Suite name list
memo	M	String		Memo



## 2.79Create Alarm

<http://VOSIP/external/server/CreateAlarm>

### Request Format

Parameter	M/O	Type	Length	Description
name	M	String	255	告警名称
level		Integer		Level 0:General 1:Minor 2:Major 3:Critical
value	O	Double		Default:0x7fffffff(32-bit integer)
alarmInfo	O	String		Alarm information
startTime	O	Long		Alarm start time(UTC)
stopTime	O	Long		Alarm stop time(UTC)
upper	O	Double		Upper value Range: 0x8000000~0x7fffffff(32-bit integer)
lower	O	Double		Lower value Range: 0x8000000~0x7fffffff(32-bit integer)

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

---

## 2.80CreateMediaBlockIp

http://VOSIP/external/server/ CreateMediaBlockIp

### Request Format

Parameter	M/O	Type	Length	Description
ip	M	String	255	Ip address
memo	O	String		Memo

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

---

## 2.81DeleteMediaBlockIp

http://VOSIP/external/server/DeleteMediaBlockIp

### Request Format

Parameter	M/O	Type	Length	Description
ip	M	String	255	Ip address
memo	O	String		Memo

### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information

## 2.82GetAlarmCurrent

<http://VOSIP/external/server/GetAlarmCurrent>

### Request Format

Parameter	M/O	Type	Length	Description
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### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code
exception	O	String		Error Information
infoAlarmCurrents	O	InfoAlarmCurrent		Current alarm list

### InfoAlarmCurrentFormat

Parameter	M/O	Type	Length	Description
id	M	int		Alarm id
type	M	int		Alarm type 20000:Routing ASR 20001:RoutingACD 20002:routing concurrency decline 20003:CPU 20004:Memory 20005:Harddisk 20006:Pending CDR 20007:Account Balance 20009:Package receive 20010:Bytes receive 20011:Package transmit 20012:Bytes transmit 20013:MappingASR 20014:MappingACD 20015:Mapping

				concurrency decline 20016:Conversion time 20017:Database 20018:Process terminated 20019:Standby enable 20020:Illegal call 20021:Clock deviation 20022:Routing concurrency rise 20023:Mapping concurrency rise 20026:Mac limited 20027: Master synchronize status 20028: Slave synchronize status
level	M	int		Level 0:General 1:Minor 2:Major 3:Critical
name	M	String		Alarm name
startTime	M	long		Alarm start time(UTC)
stopTime	O	Long		Alarm stop time(UTC)
value	M	double		Alarm value
upper	O	Double		Alarm upper value
lower	O	Double		Alarm lower value
confirmUser	O	String		Confirm user
confirmTime	O	Long		Confirm time(UTC)
memo	M	String		Memo

### 3.Send Request

Send Request use HTTP+JSON, address can be configured.

#### 3.1IVR Request Push DTMF Information

Interface Name: PushDtmfInfo

##### Request Format

Parameter	M/O	Type	Length	Description
flowNo	M	Long		Call ID
callerE164	M	String	64	Caller
calleeE164	M	String	64	Callee
accessE164	M	String	64	Access Number
menuName	M	String	64	Menu Name
dtmf	M	String	64	DTMF Information

##### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code (Define by external system, system will execute menu defined by response code. If no response, default menu will be executed.)
exception	O	String		Error Information
audioNames	O	String []		Audio List

### 3.2IVR Request Push DTMF Information 2

Interface Name: PushDtmfInfos

#### Request Format

Parameter	M/O	Type	Length	Description
flowNo	M	Long		Call Id
callerE164	M	String	64	Caller
calleeE164	M	String	64	Callee
accessE164	M	String	64	Access Number
infoDtmfs	M	InfoDtmf []		DTMF Information

#### InfoDtmf Format

Parameter	M/O	Type	Length	Description
menuName	M	String	64	Menu Name
dtmf	M	String	64	DTMF

#### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		Response Code (Define by external system, system will execute menu defined by response code. If no response, default menu will be executed.)
exception	O	String		Error Information
audioNames	O	String []		Audio List

---

### 3.3Phone Online/offline Report

Interface Name: PhoneOnline

#### Request Format

Parameter	M/O	Type	Length	Description
e164	M	String	64	Phone number
dids	M	String[]		Did list
online	M	boolean		True: Phone Online false: Phone Offline
eventTime	M	long		Time of event
localIp	M	String		Local Ip
localPort	M	int		Local port
remoteIp	M	String		Remote ip
productId	M	String		Device name

#### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		



### 3.4Call State Report

Interface Name: CallStateReport

#### Request Format

Parameter	M/O	Type	Length	Description
callId	M	integer	64	Call idetification
callState	M	integer		Call state -1: Setup -2: CallProceeding -3: CallProceeding(RTP -4: Progress -5: Alerting -6: Connet -7: Invite -8: Trying -9: SessionProgress -10:SessionProgress(SDP) -11:Ringing -12:Ok -13: Release -18: Call authentication
eventTime	M	long		Time of event
callerE164	M	String		Caller
calleeE164	M	String		Callee
callerGatewayId	O	String		Name of caller gateway
calleeGatewayId	O	String		Name of callee gateway
callerIp	M	String		Caller ip
calleeIp	M	String		Callee ip
callerLocalIp	M	String		Caller local ip
calleeLocalIp	M	String		Callee local ip

#### Response Format

---

Parameter	M/O	Type	Length	Description
retCode	M	Integer		

---

### 3.5Customer Money Change

Interface Name: CustomerMoneyChange

#### Request Format

Parameter	M/O	Type	Length	Description
account	M	String	64	Account id
money	M	double		Account balance

#### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		

---

### 3.6Current Alarm Report

Interface Name: AlarmCurrentReport

#### Request Format

Parameter	M/O	Type	Length	Description
infoAlarmCurrents	M	InfoAlarmCurrent []		Current alrm list,

#### Response Format

Parameter	M/O	Type	Length	Description
retCode	M	Integer		