

VaxVoIP

SIP SOFTPHONE SDK

Microsoft Windows Desktop OS
TECHNICAL DOCUMENTATION

VERSION 8.0.4.0

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INTRODUCTION AND QUICK START

The VaxVoIP SIP Softphone SDK is a software development kit designed to rapidly integrate SIP (Session Initiation Protocol) based softphone functionalities into web and desktop applications. It offers comprehensive support for customizing softphone features to meet specific needs, such as creating custom graphical user interfaces (GUIs) and incorporating your brand identity.

EXPORTED FUNCTIONS

GetVersionFile()

The GetVersionFile() method returns the current version of the component file.

Syntax

```
string GetVersionFile()
```

Parameters

No parameters.

Return Value

The function returns the files/component file version number.

Example

```
GetVersionFile()
```

See Also

GetVersionSDK()

GetVersionSDK()

The GetVersionSDK() method returns the current version of the SDK

Syntax

```
string GetVersionSDK()
```

Parameters

No parameters.

Return Value

The function returns the SDK version number.

Example

```
GetVersionSDK()
```

See Also

GetVersionFile()

GetVaxErrorCode()

The GetVaxErrorCode() method returns the error code for the last operation that failed to execute.

Please see [LIST OF ERROR CODES](#) for more details.

Syntax

```
integer GetVaxErrorCode()
```

Parameters

No parameters

Return Value

The function returns error code.

Example

```
Result = Initialize()  
If(Result == 0) GetVaxErrorCode()
```

See Also

GetVaxErrorMsg()

GetVaxErrorMsg()

The GetVaxErrorMsg() method returns the error message text for the last operation that failed to execute.

Please see [LIST OF ERROR CODES](#) for more details.

Syntax

```
string GetVaxErrorMsg()
```

Parameters

No parameters

Return Value

The function returns error message text.

Example

```
Result = Initialize()  
If(Result == 0) GetVaxErrorMsg()
```

See Also

GetVaxErrorCode()

Initialize()

The Initialize() function configures the VaxVoIP component by setting up necessary internal memory resources and preparing it for integration with your application. This process involves initializing the component so that it is ready to expose its available methods and functionalities.

Once Initialize() is executed, the component becomes fully operational and accessible. This allows your application to interact with it smoothly, leveraging its features and integrating SIP server capabilities effectively.

Syntax

```
Boolean Initialize()
```

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = Initialize()  
If(Result == 0) GetVaxErrorCode()
```

See Also

UnInitialize(), GetVaxErrorCode(), GetVaxErrorMsg()

UnInitialize()

The UnInitialize() function releases all resources that were allocated by the Initialize() function. It performs a cleanup operation by deallocating memory and other resources, ensuring that the VaxVoIP component is properly terminated and all associated resources are freed.

This process helps to prevent memory leaks and maintain system stability.

Syntax

```
UnInitialize()
```

Parameters

No parameters.

Return Value

No return value.

Example

```
UnInitialize()
```

See Also

Initialize()

AddAccountSIP()

The AddAccountSIP() function adds SIP account settings provided by a SIP server or ITSP (Internet Telephony Service Provider).

Syntax

```
boolean AddAccountSIP(  
    AccountName,  
    AccountType,  
    ListenIP,  
    ListenPort,  
    DisplayName,  
    UserName,  
    AuthLogin,  
    AuthPwd,  
    DomainRealm,  
    ServerAddr,  
    ServerPort  
)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

AccountType(integer)

This parameter value specifies the account communication type.

0 = Account Type UDP

1 = Account Type TCP

2 = Account Type TLS

ListenIP(string)

The ListenIP parameter value specifies the IP address of machine on which VaxVoIP is running.

ListenPort(integer)

The ListenPort parameter specifies the port number for SIP softphone to receive the requests. If the port is specified as -1, the VaxVoIP assigns a unique port to the application.

DisplayName(string)

This parameter value specifies the display name for user which is provided by IP-Telephony or VoIP service provider otherwise leave it blank.

UserName(string)

This parameter value specifies the user-name which is provided by IP-Telephony or VoIP service provider otherwise leave it blank.

AuthLogin(string)

This parameter value specifies the user Login which is provided by IP-Telephony or VoIP service provider.

AuthPwd(string)

This parameter value specifies the password which is provided by IP-Telephony or VoIP service provider.

DomainRealm(string)

This parameter value specifies the IP/Domain address of the computer on which SIP server is running or provided by IP-Telephony or VoIP service providers.

ServerAddr(string)

This parameter value specifies the IP/Domain address of the computer on which SIP server is running or provided by IP-Telephony or VoIP service providers.

ServerPort(integer)

This parameter value specifies the port of the computer on which SIP server is running or provided by IP-Telephony or VoIP service providers, otherwise default port 5060 can be used.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling `GetVaxErrorCode()` method.

Example

```
Result = AddAccountSIP("TestSIP", 0, "", -1, "", "", "4002", "4002", "",  
                    "demo.vaxvoip.com", 8060)
```

```
If(Result == 0) GetVaxErrorCode()
```

See Also

`RemoveAccountSIP()`, `GetVaxErrorCode()`, `GetVaxErrorMsg()`

RemoveAccountSIP()

The RemoveAccountSIP() function removes a SIP account that was previously added using the AddAccountSIP() function.

Syntax

```
void RemoveAccountSIP(AccountName)
```

Parameters

AccountName(string)
The unique name to identify a SIP account.

Return Value

No return value.

Example

```
RemoveAccountSIP("TestSIP")
```

See Also

AddAccountSIP(), RegisterAccountSIP(), GetVaxErrorCode()

RegisterAccountSIP()

The RegisterAccountSIP() function registers the VaxVoIP integrated SIP client with the SIP server. This registration process is essential for the client to receive incoming calls, as it allows the server to recognize and route calls to the client.

While registration is crucial for receiving calls, it is not required for making outgoing calls. The SIP client can place calls without being registered with the server.

Syntax

```
boolean RegisterAccountSIP(AccountName, Expire)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

Expire(integer)

The Expire parameter specifies the time interval after which the registration with server will be refreshed consequently server will remain updated about the present client status.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
RegisterAccountSIP("TestSIP", 1800)
```

See Also

UnRegisterAccountSIP(), GetVaxErrorCode()

UnRegisterAccountSIP()

The UnRegisterAccountSIP() function unregisters or disconnects the VaxVoIP integrated SIP client from the SIP server.

Syntax

```
boolean UnRegisterAccountSIP(AccountName)
```

Parameters

AccountName(string)
The unique name to identify a SIP account.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
UnRegisterAccountSIP("TestSIP")
```

See Also

RegisterAccountSIP(), GetVaxErrorCode()

AudioDeviceVU()

The AudioDeviceVU() activates VU (Volume Unit) functionality on a specific audio device (mic or spk). Such method can be used to develop VU meter.

Syntax

```
boolean AudioDeviceVU(Activate, MicVU, SpkVU)
```

Parameters

Activate(boolean)

The Activate parameter value can be 0 or 1. Assign value 1 to this parameter if you want to activate VU otherwise zero.

MicVU(boolean)

The MicVU parameter value can be 0 or 1. Assign value 1 to this parameter if you want to activate VU on MICROPHONE device otherwise zero.

SpkVU(boolean)

The SpkVU parameter value can be 0 or 1. Assign value 1 to this parameter if you want to activate VU on SPEAKER device otherwise zero.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
AudioDeviceVU(1, 1, 0)
```

See Also

OnAudioDeviceMicVU(), OnAudioDeviceSpkVU()

GetAudioInDevTotal()

The GetAudioInDevTotal() function provides the total count of input devices attached to device.

Syntax

```
integer GetAudioInDeviceTotal()
```

Parameters

No parameters.

Return Value

Total number of audio input devices.

Example

```
GetAudioInDeviceTotal()
```

See Also

GetAudioOutDevTotal()

GetAudioOutDevTotal()

The `GetAudioOutDevTotal()` function provides the total count of output devices attached to device .

Syntax

```
integer GetAudioOutDeviceTotal()
```

Parameters

No parameters.

Return Value

Total number of audio output devices.

Example

```
GetAudioOutDeviceTotal()
```

See Also

`GetAudioInDevTotal()`

GetAudioOutDevName()

The GetAudioOutDevName() function returns the name of output audio device for provided device id.

Syntax

```
string GetAudioOutDevName(DeviceId)
```

Parameters

DeviceId(integer)

This parameter value can be any number from zero to total number of input devices – 1. Each number corresponds to a particular audio output device.

Return Value

Device name for corresponding device id, otherwise empty string.

Example

```
GetAudioOutDevName(0)
```

See Also

GetAudioInDevName(), GetAudioOutDevTotal(), GetAudioInDevTotal()

GetAudioInDevName()

The GetAudioInDevName() function returns the name of input audio device for provided device id.

Syntax

```
string GetAudioInDevName(DeviceId)
```

Parameters

DeviceId(integer)

This parameter value can be any number from zero to total number of input devices – 1. Each number corresponds to a particular audio input device.

Return Value

Device name for corresponding device id, otherwise empty string.

Example

```
GetAudioInDevName(0)
```

See Also

GetAudioOutDevTotal(), GetAudioInDevTotal(), GetAudioOutDevName()

OpenLine()

The OpenLine() function opens a specific line to dial/receive call. As VaxVoIP supports multiple calls simultaneously so this function should be called prior to establishing connection, allowing user to dial/receive new calls on available free line.

Syntax

```
boolean OpenLine(LineNo, RTPRxIP, RxAudioPortRTP, RxVideoPortRTP)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

RTPRxIP(string)

The RTPRxIP parameter value specifies the IP address of computer on which VaxVoIP receives voice streams. The ListenIP and RTPRxIP can be different if a computer has multiple IP addresses.

RxAudioPortRTP(integer)

The RxAudioPortRTP parameter value specifies the port number to receive voice streams. The Listen ports should be in range of 1024 to 65535 for UDP based transmission and for RTP compliance port number should be even.

RxVideoPortRTP(integer)

The RxVideoPortRTP parameter value specifies the port number to receive video streams. The Listen ports should be in range of 1024 to 65535 for UDP based transmission and for RTP compliance port number should be even.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = OpenLine(2, "", -1, -1) // "" = auto, -1 = auto
if (Result==0) GetVaxErrorCode( )
```

See Also

CloseLine(), GetVaxErrorCode()

CloseLine()

The CloseLine() function closes the specific line which is no longer in use. This method can be called every time a call is disconnected to close the specific line or all open lines can be closed once at component uninitialization.

Syntax

```
boolean CloseLine(LineNo)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
OpenLine(2, "", -1, -1)  "" = auto, -1 = auto  
CloseLine(2)
```

See Also

OpenLine(), GetVaxErrorCode()

DialCall()

The DialCall() function sends call request to SIP server.

Syntax

```
boolean DialCall(  
    AccountName,  
    LineNo,  
    CallerName,  
    CallerId,  
    DialNo,  
    InputDeviceId,  
    OutputDeviceId  
)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

CallerName(string)

This parameter specifies the user-name to be dialed.

CallerId(string)

This parameter specifies the user id to be dialed.

DialNo(string)

This parameter specifies the user-name or phone number to be dialed.

InputDeviceId(integer)

This parameter specifies the ID of a specific input device to use when dialing a call. A value of -1 can be provided to use the default input device.

OutputDeviceId(integer)

This parameter specifies the ID of a specific output device to use when dialing a call. A value of -1 can be provided to use the default output device.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = DialCall("TestSIP", 0, "", "", "001914600518", -1, -1)
if(Result == 0) GetVaxErrorCode()
```

See Also

Disconnect(), GetAudioOutDevName(), GetAudioInDevName(),
GetVaxErrorCode()

DisconnectCall()

The DisconnectCall() function disconnects the specific call in progress.

Syntax

```
boolean DisconnectCall(LineNo)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = DisconnectCall(2)  
if(Result == 0) GetVaxErrorCode()
```

See Also

DialCall(), Connect(), GetVaxErrorCode()

AcceptCall()

The AcceptCall() function accepts the incoming call.

Syntax

```
boolean AcceptCall(  
    LineNo,  
    CallId,  
    InputDeviceId,  
    OutputDeviceId  
)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

CallId(string)

The CallId parameter is a unique identifier for each incoming call. For details on the incoming call ID, refer to the OnIncomingCallStarted() event.

InputDeviceId(integer)

This parameter specifies the ID of a specific input device to connect upon accepting a call. A value of -1 can be provided to use the default input device.

OutputDeviceId(integer)

This parameter specifies the ID of a specific output device to connect upon accepting a call. A value of -1 can be provided to use the default output device.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = AcceptCall(0, "24c654c@192.168.0.119", -1, -1)  
if(Result == 0) GetVaxErrorCode()
```

See Also

GetAudioOutDevName(), GetAudioInDevName(), RejectCall(),
GetVaxErrorCode()

RejectCall()

The RejectCall() function cancels/rejects the incoming call.

Syntax

```
boolean RejectCall(CallId)
```

Parameters

CallId(string)

The CallId parameter value is a unique identifier for each incoming call. The value of this parameter is generated internally by the system (Incoming call-Id, please see OnIncomingCallStarted() event details).

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = RejectCall("24c654c@192.168.0.119")  
if(Result == 0) GetVaxErrorCode()
```

See Also

AcceptCall(), GetVaxErrorCode()

TransferCallBlind()

The TransferCallBlind() function transfers the call from a specific line to a specific number or user. This function can be used to implement “unannounced/blind call transfer i-e transferring the call without notifying the desired party/extension of the impending call”.

Syntax

```
boolean TransferCallBlind(  
    LineNo,  
    ToUserName  
)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

ToUserName(string)

This parameter specifies the to user-name or phone number to be dialed.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = TransferCallBlind(2, "00192600524")  
if(Result == 0) GetVaxErrorCode()
```

See Also

AcceptCall(), GetVaxErrorCode()

TransferCallConsult()

The TransferCallConsult() function sends transfer call consult request to SIP Server and SIP Server links both calls. This function can be used to implement the feature “announced/consult call transfer i-e notifying the desired party/extension of the impending call by putting the caller on hold and dialing the desired party/extension”.

Syntax

```
boolean TransferCallConsult(  
                                LineNoA,  
                                LineNoB  
                                )
```

Parameters

LineNoA(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

LineNoB(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = TransferCallConsult (1, 3)  
if(Result == 0) GetVaxErrorCode()
```

See Also

TransferCallBlind(), GetVaxErrorCode()

HoldLine()

The HoldLine() method puts a specific line on hold.

Syntax

```
HoldLine(LineNo)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = HoldLine(3)
if(Result == 0) GetVaxErrorCode()
```

See Also

HoldLine(), GetVaxErrorCode()

UnHoldLine()

The UnHoldLine() function unholds a specific line.

Syntax

```
boolean UnHoldLine(LineNo)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = UnHoldLine(2)
if(Result == 0) GetVaxErrorCode()
```

See Also

HoldLine(), GetVaxErrorCode()

IsLineOpen()

The IsLineOpen() function returns open/close status of a specific line.

Syntax

```
boolean IsLineOpen(LineNo)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Return Value

The function returns value 1 (true) if line is open otherwise zero.

Example

```
IsLineOpen(4)
```

See Also

OpenLine(), IsLineBusy()

IsLineConnected()

The IsLineConnected() function returns the status of already opened line i-e line is connected or free.

Syntax

```
boolean IsLineConnected(LineNo)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Return Value

The function returns value 1 (true) if line is connected otherwise zero.

Example

```
IsLineConnected(4)
```

See Also

OpenLine(), IsLineOpen(), IsLineBusy()

IsLineHold()

The IsLineHold() method returns the HOLD status of a specific line.

Syntax

```
boolean IsLineHold(LineNo)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Return Value

The function returns value 1 (true) if line is on hold otherwise zero.

Example

```
Result = IsLineHold(3)  
if(Result == 0) GetVaxErrorCode()
```

See Also

HoldLine(), GetVaxErrorCode()

IsLineBusy()

The IsLineBusy() function checks the status of already opened line i-e line is busy or free.

Syntax

```
boolean IsLineBusy(LineNo)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Return Value

The function returns value 1 (true) if line is busy otherwise zero.

Example

```
IsLineBusy(4)
```

See Also

OpenLine(), IsLineOpen()

IsLinePlaying()

The IsLinePlaying() function checks whether the wave file playing is in progress or not on provided line.

Syntax

```
boolean IsLinePlaying(LineNo)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Return Value

The function returns value 1(true) if wave file is playing on provided line otherwise it returns 0(false).

Example

```
IsLinePlaying(2)
```

See Also

PlayWaveOpen(), PlayWaveStart(), PlayWaveStop(), PlayWaveSkipTo(),
GetVaxErrorCode()

IsLineRecording()

The IsLineRecording() function checks if recording is enabled or not on a specific line.

Syntax

```
boolean IsLineRecording(LineNo)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Return Value

The function returns value 1(true) if recording is enabled on provided line otherwise 0(false).

Example

```
IsLineRecording(6)
```

See Also

StartRecording(), StopRecording(), GetVaxErrorCode()

EnableKeepAlive()

The EnableKeepAlive() function keeps the ports open by periodically sending "keep alive" packets. This helps maintain the connection by preventing the NAT/firewall from closing the ports.

Syntax

```
boolean EnableKeepAlive(AccountName, Seconds)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

Seconds(integer)

This Seconds parameter value specifies the time interval in seconds after which keep alive packets will be sent to keep the port open for connection.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
OpenLine(2, "192.168.0.103", 7006, 7008)  
EnableKeepAlive("TestSIP", 10)
```

See Also

DisableKeepAlive(), GetVaxErrorCode()

DisableKeepAlive()

The DisableKeepAlive() method stops sending keep-alive packets, thereby disabling the functionality of the EnableKeepAlive() method.

Syntax

```
void DisableKeepAlive(AccountName)
```

Parameters

AccountName(string)
The unique name to identify a SIP account.

Return Value

No return value.

Example

```
DisableKeepAlive("TestSIP")
```

See Also

EnableKeepAlive(), GetVaxErrorCode()

SelectAllAudioCodec()

The SelectAllAudioCodec() function selects all the voice codec.

Syntax

```
void SelectAllAudioCodec()
```

Parameters

No parameters.

Return Value

No return value.

Example

```
SelectAllAudioCodec()
```

See Also

DeselectAllAudioCodec(), GetVaxErrorCode()

SelectAudioCodec()

The SelectAudioCodec() function selects a voice codec for provided codec number. The function can be called multiple times to select more than one voice codec. Moreover the sequence of selection of voice codec decides the priority of codec i-e the voice codec selected first has higher priority than the codec selected afterward.

Syntax

```
boolean SelectAudioCodec(CodecNo)
```

Parameters

CodecNo(integer)

This parameter value ranges from 0-4 and each value corresponds to a particular voice codec.

VaxVoIP SIP SDK supports the following voice codecs:

- 0 = G711 U-Law
- 1 = G711 A-Law
- 2 = GSM 6.10
- 3 = iLBC
- 4 = G729

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
DeselectAllAudioCodec()  
  
SelectAudioCodec(4)  
SelectAudioCodec(1)  
SelectAudioCodec(2)  
SelectAudioCodec(3)
```

In this example G729 has the highest priority where as iLBC has Lowest priority.

See Also

DeselectAudioCodec(), GetVaxErrorCode()

DeselectAllVideoCodec()

The DeselectAllVideoCodec() function deselects all the video codec options.

Syntax

```
void DeselectAllVideoCodec()
```

Parameters

No parameters.

Return Value

No return value.

Example

```
DeselectAllVideoCodec()
```

See Also

SelectAllVideoCodec(), GetVaxErrorCode()

DeselectAudioCodec()

The DeselectAudioCodec() function deselects a voice codec for provided codec number.

Syntax

```
boolean DeselectAudioCodec(CodecNo)
```

Parameters

CodecNo(integer)

This parameter value ranges from 0-4 and each value corresponds to a particular voice codec.

VaxVoIP SIP SDK supports the following voice codecs:

- 0 = G711 U-Law
- 1 = G711 A-Law
- 2 = GSM 6.10
- 3 = iLBC
- 4 = G729

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = DeselectAudioCodec(1)  
if(Result == 0) GetVaxErrorCode()
```

See Also

SelectAudioCodec(), GetVaxErrorCode()

SelectAllVideoCodec()

The SelectAllVideoCodec() function selects all the VaxVoIP SDK's supported video codecs.

Syntax

```
void SelectAllVideoCodec()
```

Parameters

No parameters.

Return Value

No return value.

Example

```
SelectAllVideoCodec()
```

See Also

DeselectAllVideoCodec(), GetVaxErrorCode()

SelectVideoCodec()

The SelectVideoCodec() function selects a video codec for provided codec number. The function can be called multiple times to select more than one video codec. Moreover the sequence of selection of video codec decides the priority of codec i-e the video codec selected first has higher priority than the codec selected afterward.

Syntax

```
boolean SelectVideoCodec(CodecNo)
```

Parameters

CodecNo(integer)

This parameter value ranges from 0-2 and each value corresponds to a particular video codec.

VaxVoIP SIP SDK supports the following video codecs:

0 = VP8
1 = H263
2 = H263+

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
DeselectAllVideoCodec()
```

```
SelectVideoCodec(0)  
SelectVideoCodec(2)
```

In this example VP8 has the highest priority where as H263+ has lowest priority

See Also

DeselectVideoCodec(), GetVaxErrorCode()

DeselectAllVideoCodec()

The DeselectAllVideoCodec() function deselects all the video codec options.

Syntax

```
void DeselectAllVideoCodec()
```

Parameters

No parameters.

Return Value

No return value.

Example

```
DeselectAllVideoCodec()
```

See Also

SelectAllVideoCodec(), GetVaxErrorCode()

DeselectVideoCodec()

The DeselectVideoCodec() function deselects a video codec for provided codec number.

Syntax

```
boolean DeselectVideoCodec(CodecNo)
```

Parameters

CodecNo(integer)

This parameter value ranges from 0-2 and each value corresponds to a particular video codec.

VaxVoIP SIP SDK supports the following video codecs:

0 = VP8

1 = H263

2 = H263+

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = DeselectVideoCodec(1)
if(Result == 0) GetVaxErrorCode()
```

See Also

SelectVideoCodec(), GetVaxErrorCode()

DigitDTMF()

The DigitDTMF() function sends DTMF digit to the remote end SIP server. This method can also be used to play DTMF tones.

Syntax

```
boolean DigitDTMF(  
    LineNo,  
    Digit,  
    TypeDTMF  
)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Digit(string)

This parameter value specifies any digit that has been pressed. (1, 2, 3, 4, 5, 0, *, #).

TypeDTMF(integer)

This parameter value specifies the Type Id.

The supported types are:

- 0 = AUTO
- 1 = RFC2833 TYPE
- 2 = SIP INFO TYPE
- 3 = INBAND or VOICE TYPE

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
DigitDTMF(1,"3", 0)
```

See Also

SetVolumeDTMF(), GetVolumeDTMF()

SetVolumeDTMF()

The SetVolumeDTMF() function adjusts the volume level of DTMF (Dual-Tone Multi-Frequency) tones. This function modifies the soft volume, meaning it changes the volume for the DTMF tones without affecting the overall system or master volume control.

Syntax

```
boolean SetVolumeDTMF(Volume)
```

Parameters

Volume(integer)

This parameter value specifies volume levels ranging from -100 to +100

-100 = Silence
0 = No Change
+100 = Max

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
SetVolumeDTMF(6)
```

See Also

DigitDTMF(), GetVolumeDTMF()

GetVolumeDTMF()

The GetVolumeDTMF() function retrieves the volume level for DTMF tones that was previously set using the SetVolumeDTMF() function.

Syntax

```
integer GetVolumeDTMF()
```

Parameters

No parameters.

Return Value

The function returns the volume level upon successful execution; otherwise, it returns -1.

Example

```
SeVolumeDTMF(6)  
GeVolumeDTMF()
```

See Also

DigitDTMF(), SeVolumeDTMF()

MuteMic()

The MuteMic() function mutes the microphone. Call to MuteMic() method does not affect the Master Mute Control. It simply starts sending silence data.

Syntax

```
boolean MuteMic(Mute)
```

Parameters

Mute(boolean)

The Mute parameter value can be 0 or 1. Assign value 1 to This parameter to mute the microphone otherwise zero.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
MuteMic(0)  
MuteMic(1)
```

See Also

MuteSpk(), GetVaxErrorCode()

MuteSpk()

The MuteSpk() function mutes the speaker. Call to MuteSpk() does not affect the Master Mute Control.

Syntax

```
boolean MuteSpk(Mute)
```

Parameters

Mute(boolean)

The Mute parameter value can be 0 or 1. Assign value 1 to This parameter to mute the speaker otherwise zero.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
MuteSpk(0)  
MuteSpk(1)
```

See Also

MuteMic(), GetVaxErrorCode()

MuteLineSpk()

The MuteLineSpk() method mutes output voice stream of specific line.

Syntax

```
boolean MuteLineSpk(  
    LineNo,  
    Mute,  
    )
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Mute(boolean)

The Enable parameter value can be 0 or 1. Assign value 1 to This parameter to mute output voice stream otherwise zero.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
MuteLineSpk(2, 0)  
MuteLineSpk(2, 1)
```

See Also

MuteLineMic(), GetVaxErrorCode()

MuteLineMic()

The MuteLineMic() method mutes input voice stream of specific line.

Syntax

```
boolean MuteLineMic(  
                LineNo,  
                Mute  
                )
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Mute(boolean)

The Enable parameter value can be 0 or 1. Assign value 1 to This parameter to mute input voice stream otherwise zero.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
MuteLineMic(2, 0)  
MuteLineMic(2, 1)
```

See Also

MuteLineSpk(), GetVaxError

AutoGainMic()

The AutoGainMic() method enables auto gain functionality on outgoing voice stream.

Syntax

```
boolean AutoGainMic(  
    Enable,  
    Volume  
)
```

Parameters

Enable(boolean)

This parameter value enables/disables AGC functionality.

Volume(integer)

This parameter value specifies volume level ranges between [0-255]

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
AutoGainMic(1, 150)
```

See Also

AutoGainSpk(), GetVaxError

AutoGainSpk()

The AutoGainSpk() method enables auto gain functionality on incoming voice stream.

Syntax

```
boolean AutoGainSpk(  
    Enable,  
    Volume  
)
```

Parameters

Enable(boolean)

This parameter value enables/disables AGC functionality.

Volume(integer)

This parameter value specifies volume level ranges between [0-255]

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
AutoGainSpk(0, 100)
```

See Also

AutoGainMic(), GetVaxErrorCode()

SetVolumeMic()

The SetVolumeMic() function adjusts the volume of the input voice stream. It modifies the soft volume, which changes the input stream level without affecting the overall system or master volume control.

Syntax

```
boolean SetVolumeMic(Volume)
```

Parameters

Volume(integer)

This parameter value specifies volume levels ranging from -100 to +100

-100 = Silence
0 = No Change
+100 = Max

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = SetVolumeMic(60)  
if(Result == 0) GetVaxErrorCode()
```

See Also

GetVolumeSpk(), SetVolumeSpk(), GetVolumeMic()

GetVolumeMic()

The GetVolumeMic() function returns the input volume previously set by the SetVolumeMic() function.

Syntax

```
integer GetVolumeMic()
```

Parameters

No parameters.

Return Value

The function returns the volume level upon successful execution; otherwise, it returns -1.

Example

```
GetVolumeMic()
```

See Also

GetVolumeSpk(), SetVolumeSpk(), SetVolumeMic()

SetVolumeSpk()

The SetVolumeSpk() function adjusts the volume of the output voice stream. It modifies the soft volume, which changes the output level specifically for the voice stream without affecting the overall system volume or master volume control.

Syntax

```
boolean SetVolumeSpk(Volume)
```

Parameters

Volume(integer)

This parameter value specifies volume levels ranging from -100 to +100

-100 = Silence
0 = No Change
+100 = Max

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = SetVolumeSpk(-10)  
if(Result == 0) GetVaxErrorCode()
```

See Also

GetVolumeMic(), SetVolumeMic(), GetVolumeSpk()

GetVolumeSpk()

The GetVolumeSpk() function returns the output volume previously set by the SetVolumeSpk() function.

Syntax

```
integer GetVolumeSpk()
```

Parameters

No parameters.

Return Value

The function returns the volume level upon successful execution; otherwise, it returns -1.

Example

```
GetVolumeSpk()
```

See Also

GetVolumeMic(), SetVolumeMic(), SetVolumeSpk()

SetLineVolumeSpk()

The SetLineVolumeSpk() function adjusts the output volume of a specific line without affecting the operating system master volume control.

Syntax

```
boolean SetLineVolumeSpk(  
    LineNo,  
    Volume  
)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Volume(integer)

This parameter value specifies volume level ranges between [0-255].

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = SetLineVolumeSpk(2, 200)  
if(Result == 0) GetVaxErrorCode()
```

See Also

GetLineVolumeSpk()

GetLineVolumeSpk()

The GetLineVolumeSpk() function returns the output volume of a specific line. The speaker volume ranges between 0-255 (0 = Min Volume, 255 = Max Volume).

Syntax

```
integer GetLineVolumeSpk(LineNo)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Return Value

The function returns speaker volume on its successful execution otherwise -1.

Example

```
GetLineVolumeSpk(2)
```

See Also

SetLineVolumeSpk(), SetVolumeSpk()

EchoCancellation()

The EchoCancellation() enables the significant suppression of echo and any background noise. By default this is enabled to provide high quality of output speech.

Syntax

```
boolean EchoCancellation(Enable)
```

Parameters

Enable(boolean)

This parameter value can be 0 or 1. Assign value 1 to enable the AEC or 0 to disable it.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
EchoCancellation(1)
```

See Also

DonotDisturb(), GetVaxErrorCode()

DonotDisturb()

The DonotDisturb() enables don't disturb functionality.

Syntax

```
boolean DonotDisturb(Enable)
```

Parameters

Enable(boolean)
This parameter value can be 0 or 1.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
DonotDisturb(1)
```

See Also

EchoCancellation(), GetVaxErrorCode()

StartRecording()

The StartRecording() function starts recording voice stream on specific line.

Syntax

```
boolean StartRecording(  
    LineNo,  
    FileName,  
    RecordVoice  
)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

FileName(string)

This parameter value specifies wave file name to be saved.

RecordVoice(integer)

This parameter value specifies the recording mode. It can have three values and each value corresponds to a particular recording mode.

0=Record outgoing only

1=Record incoming only

2=Record both

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
StartRecording(3, , "test.wav", 2)
```

See Also

IsLineRecording(), StopRecording(), GetVaxErrorCode()

StopRecording()

The StopRecording() function stops the recording of voice stream on specific line.

Syntax

```
boolean StopRecording(LineNo)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
StopRecording(4)
```

See Also

StartRecording(), IsLineRecording(), GetVaxErrorCode()

PlayWaveOpen()

The PlayWaveOpen() function makes the wave file ready/set to play int a call.

Syntax

```
boolean PlayWaveOpen(  
    LineNo,  
    FileName  
)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

FileName(string)

This parameter value specifies wave file name to be played.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = PlayWaveOpen(6, "test.wav")  
if(Result == 0) GetVaxErrorCode()
```

See Also

IsLinePlaying(), PlayWaveStart(), PlayWaveStop(), PlayWaveSkipTo(),
GetVaxErrorCode()

PlayWaveClose()

The PlayWaveClose() function vacates all the resources that were held by PlayWaveOpen() function.

Syntax

```
boolean PlayWaveClose(LineNo)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
PlayWaveOpen(6, "test.wav")  
Result = PlayWaveClose(6)  
if(Result == 0) GetVaxErrorCode()
```

See Also

PlayWaveOpen(), PlayWaveStart(), PlayWaveStop(), PlayWaveSkipTo(),
GetVaxErrorCode()

PlayWaveSkipTo()

The PlayWaveSkipTo() function changes the position of playing cursor to the new position.

Syntax

```
boolean PlayWaveSkipTo(  
    LineNo,  
    MilliSeconds  
)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

MilliSeconds(integer)

This parameter value specifies the time in milli-seconds to be skipped of playing wave file.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = PlayWaveSkipTo(4, 1000)  
if(Result == 0) GetVaxErrorCode()
```

See Also

PlayWaveOpen(), PlayWaveClose(), PlayWaveStop(), PlayWaveStart(),
GetVaxErrorCode()

PlayWaveTotalTime()

The PlayWaveTotalTime() function returns the total playing time of a wave file on provided line.

Syntax

```
integer PlayWaveTotalTime(LineNo)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Return Value

The function returns total playing time in milli-seconds of wave file otherwise 0.

Example

```
Result = PlayWaveTotalTime(4)
```

See Also

PlayWaveOpen(), PlayWaveClose(), PlayWaveStop(), PlayWaveStart(), PlayWavePause(), GetVaxErrorCode()

PlayWavePause()

The PlayWavePause() method pauses the playing wave file on its current position.

Syntax

```
boolean PlayWavePause(LineNo)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = PlayWavePause(1)  
if(Result == 0) GetVaxErrorCode()
```

See Also

PlayWaveOpen(), PlayWaveClose(), PlayWaveStop(), PlayWaveStart(),
PlayWaveSkipTo(), GetVaxErrorCode()

PlayWaveStart()

The PlayWaveStart() method starts playing the already set wave file on provided line. The following sequence of execution starts playing the wave file.

- PlayWaveOpen()
- PlayWaveStart()
-

It starts sending wave file data to the remote end, value listen = 1 starts sending and playing (on sound card) wave file data at the same time.

Syntax

```
boolean PlayWaveStart(  
    LineNo,  
    Listen  
)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Listen(boolean)

This parameter value can be 0 or 1. To play wave file just to remote end set its value 0 or sets its value 1 to play wave file to both remote end and sound card.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = PlayWaveStart(0, 0)  
if(Result == 0) GetVaxErrorCode()
```

See Also

PlayWaveOpen(), PlayWaveClose(), PlayWaveStop(), PlayWaveSkipTo(),
GetVaxErrorCode()

PlayWaveStop()

The PlayWaveStop() function stops playing the wave file on provided line and change the position of playing cursor at the beginning of file.

Syntax

```
boolean PalyWaveStop(LineNo)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = PlayWaveStop(2)  
if(Result == 0) GetVaxErrorCode()
```

See Also

PlayWaveOpen(), PlayWaveClose(), PlayWavePause(), PlayWaveStart(),
PlayWaveSkipTo(), GetVaxErrorCode()

PlayWavePosition()

The PlayWavePosition() method gets the current position of playing cursor.

Syntax

```
integer PlayWavePosition(LineNo)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Return Value

The function returns current position in milli-seconds of playing cursor otherwise -1.

Example

```
PlayWaveOpen(4, "test.wav")
PlayWaveStart(4, 0)

Result = PlayWavePosition(4)
if(Result == -1) GetVaxErrorCode()
```

See Also

PlayWaveOpen(), PlayWaveClose(), PlayWaveStop(), PlayWaveStart(),
PlayWaveSkipTo(), GetVaxErrorCode()

GetOutboundCodec()

The GetOutboundCodec() gets the codec number for the outbound voice stream of provided line.

Syntax

```
integer GetOutboundCodec(LineNo)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

VaxVoIP SIP SDK support the following voice codecs:

- 0 = G711 A-Law
- 1 = G711 U-Law
- 2 = GSM 6.10
- 3 = iLBC
- 4 = G729

Return Value

The function returns a codec number on its successful execution otherwise -1.

Example

```
Result = GetOutboundCodec(1)  
if(Result == -1) GetVaxErrorCode()
```

See Also

GetInboundCodec(), GetVaxErrorCode()

GetInboundCodec()

The GetInboundCodec() gets the codec number for the Inbound voice stream of provided line.

Syntax

```
integer GetInboundCodec(LineNo)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

VaxVoIP SIP SDK support the following voice codecs:

- 0 = G711 A-Law
- 1 = G711 U-Law
- 2 = GSM 6.10
- 3 = iLBC
- 4 = G729

Return Value

The function returns a codec number on its successful execution otherwise -1.

Example

```
Result = GetInBoundCodec(5)  
if(Result == -1) GetVaxErrorCode()
```

See Also

GetOutboundCodec(), GetVaxErrorCode()

AudioSessionLost()

The AudioSessionLost() function sets the specific time interval to check whether voice session is still intact or lost.

NOTE: Due to some reasons, if VaxVoIP does not receives audio stream for a specific interval of time then it triggers OnAudioSessionLost() event.

Syntax

```
void AudioSessionLost(Second)
```

Parameters

Second(integer)

This parameter value specifies the session lost time in seconds.

Return Value

No return value.

Example

```
AudioSessionLost(2)
```

See Also

OnAudioSessionLost()

SetUserAgentSIP()

The SetUserAgentSIP() function sets the user agent field of SIP packet.

Syntax

```
boolean SetUserAgentSIP(UserAgentName)
```

Parameters

UserAgentName(string)

This parameter value specifies the User agent Name.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = SetUserAgentSIP("abc")  
if(Result == 0) GetVaxErrorCode()
```

See Also

GetUserAgentSIP(), GetVaxErrorCode()

GetUserAgentSIP()

The GetUserAgentSIP() function returns the user agent field of SIP packet.

Syntax

```
string GetUserAgentSIP()
```

Parameters

No parameters.

Return Value

The function returns the user agent name otherwise empty string.

Example

```
GetUserAgentSIP()
```

See Also

SetUserAgentSIP()

SetSubjectSDP()

The SetSubjectSDP() function sets the subject field of SIP packet.

Syntax

```
boolean SetSubjectSDP(SubjectSDP)
```

Parameters

SubjectSDP(string)

This parameter specifies the value that is to be set as subject of SIP packet.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
SetSubjectSDP("xyz")
```

See Also

GetSubjectSDP()

GetSubjectSDP()

The GetSubjectSDP() function returns the subject field previously set by SetSubjectSDP() method.

Syntax

```
string GetSubjectSDP()
```

Parameters

No parameters.

Return Value

The function returns the subject.

Example

```
GetSubjectSDP()
```

See Also

SetSubjectSDP()

ConfAllowLine()

The ConfAllowLine() function allows multiple users to speak/listen in conference. This feature of VaxVoIP componnet can be used for supervision of operators at call centers in real time.

Syntax

```
boolean ConfAllowLine(  
    LineNo,  
    AllowListen,  
    AllowSpeak  
)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

AllowListen(boolean)

This parameter value can be 0 or 1. To allow user on specific line to listen in conference set parameter value to 1 otherwise 0.

AllowSpeak(boolean)

This parameter value can be 0 or 1. To allow user on specific line to speak in conference set parameter value to 1 otherwise 0.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
ConfAllowLine(1,0,1)  
ConfAllowLine(3,1,0)
```

See Also

LineVoiceChannelSpk()

LineVoiceChannelSpk()

The LineVoiceChannelSpk() function enables/disables the right and left speaker on specific line.

Syntax

```
boolean LineVoiceChannelSpk(  
                                LineNo,  
                                Channel  
                                )
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Channel(integer)

This parameter value specifies which speaker to be enabled /disabled.

- 0 = Enable Left Speaker
- 1 = Enable Right Speaker
- 2 = Enable both

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = LineVoiceChannelSpk(2, 1)  
if(Result == 0) GetVaxtError()
```

See Also

MuteSpk(), MuteLineSpk()

ChatAddContact()

The ChatAddContact() method adds a contact to receive their status, such as online, busy, idle, etc.

Syntax

```
boolean ChatAddContact(AccountName, UserName)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

UserName(string)

This parameter value specifies the user-name to be added to chat.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = ChatAddContact("TestSIP", "abc")  
if(Result == 0) GetVaxErrorCode()
```

See Also

ChatRemoveContact(), OnChatContactStatus(), GetVaxErrorCode()

ChatRemoveContact()

The ChatRemoveContact() method removes a contact that was previously added using the ChatAddContact() method.

Syntax

```
boolean ChatRemoveContact(AccountName, UserName)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

UserName(string)

This parameter value specifies the user-name to be removed from chat.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
ChatAddContact("TestSIP", "abc")  
ChatRemoveContact("TestSIP", "abc")
```

See Also

ChatAddContact(), GetVaxErrorCode()

ChatFindContact()

The ChatFindContact() function determines whether a user-name has already been added via the ChatAddContact() method.

Syntax

```
boolean ChatFindContact(AccountName, UserName)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

UserName(string)

This parameter value specifies the user-name.

Return Value

The function returns a non-zero value if user-name is found otherwise 0.

Example

```
ChatFindContact("TestSIP", "1010")
```

See Also

ChatAddContact()

ChatSendMessageTyping()

The ChatSendMessageTyping() functions sends the typing status to remote end/user.

Syntax

```
boolean ChatSendMessagingTyping(  
    AccountName,  
    UserName,  
    UserValue  
)
```

Parameters

AccountName(string)
The unique name to identify a SIP account.

UserName(string)
This parameter value specifies the user-name.

UserValue(integer)
This parameter value is a user specified value.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
ChatSendMessagingTyping("TestSIP", "xyz", 0)
```

See Also

ChatSendMessageText(), GetVaxErrorCode()

ChatSendMessageText()

The ChatSendMessageText() function sends the chat message text.

Syntax

```
boolean ChatSendMessageText(  
                                AccountName,  
                                UserName,  
                                MsgText,  
                                MsgType,  
                                UserValue  
                                )
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

UserName(string)

This parameter value specifies the user-name.

MsgText(string)

This parameter value specifies the message text.

MsgType(integer)

This parameter value specifies the number 101 or 102 which corresponds to particular message type.

UserValue(integer)

This parameter value is a user specified value

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
ChatAddContact("TestSIP", "abc")  
ChatSendMessageTyping("TestSIP", "abc", 3)  
ChatSendMessageText("TestSIP", "abc", "xyz", 101, 3)
```

See Also

ChatSendMessageTyping(), GetVaxErrorCode()

ChatSetMyStatus()

The ChatSetMyStatus() function sets the status of user for chat i-e online, offline, away, on-phone or busy.

Syntax

```
boolean ChatSetMyStatus(AccountName, StatusId)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

StatusId(integer)

This parameter value corresponds to particular user chat status.

0 = Online

1 = Offline

2 = Away

3 = On Phone

4 = Busy

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
ChatSetMyStatus("TestSIP", 0)  
ChatSetMyStatus("TestSIP", 3)
```

See Also

ChatAddContact(), ChatRemoveContact(), ChatSendMessageText()

VoiceChanger()

The VoiceChanger() functions changes the pitch of outgoing voice.

Syntax

```
boolean VoiceChanger(Pitch)
```

Parameters

Pitch(integer)

This parameter value can be -1 to disables the voice change or its value can be the pitch of the voice ranges between 0-20.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = VoiceChanger(4)  
if(Result == 0) GetVaxErrorCode()
```

See Also

ForwardCall()

The ForwardCall() function enables call forwarding.

Syntax

```
boolean ForwardCall(  
                    Enable,  
                    ToUserName  
                    )
```

Parameters

Enable(boolean)

This parameter value can be 0 or 1. Assign value 1 to enable the call forwarding to particular user or 0 to disable call forwarding.

ToUserName(string)

This parameter value specifies the user-name/number to be forwarded.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = ForwardCall(1, "abc")  
if(Result == 0) GetVaxErrorCode()
```

See Also

DialCall(), GetVaxErrorCode()

PlayAddPCM()

The PlayAddPCM() adds the voice digital PCM data to internally created buffer of VaxVoIP component and VaxVoIP component plays it to the call and remote end listens it.

Syntax

```
boolean PlayAddPCM(  
    LineNo,  
    DataPCM,  
    SizePCM  
)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

DataPCM(data)

This parameter value specifies PCM data. Supported PCM format (8000Hz, 16bit, Mono)

SizePCM(integer)

This parameter value specifies the size of PCM data.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = PlayAddPCM(1, DataPCM, 8026)  
if(Result == 0) GetVaxErrorCode()
```

See Also

PlayResetPCM()

PlayResetPCM()

The PlayResetPCM() method resets/clear VaxVoIP internally play PCM buffer.

Syntax

```
boolean PlayResetPCM(LineNo)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = PlayResetPCM(1)  
if(Result == 0) GetVaxErrorCode()
```

See Also

PlayAddPCM()

DetectAMD()

The DetectAMD() method enables/disables the detection of answering machine.

Syntax

```
boolean DetectAMD(  
    LineNo,  
    Enable,  
    AnalysisTime,  
    SilenceTime,  
    SilenceCount  
)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Enable(boolean)

This parameter value can be 0 or 1. Assign value 1 to enable the answering machine detection on specified line or 0 to disable it.

AnalysisTime(integer)

This parameter value specifies the time interval (in millisecond)for detection of answering machine.

SilenceTime(integer)

This parameter value specifies the time interval (in millisecond) for silence.

SilenceCount(integer)

This parameter value specifies the number of count for silence interval.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
DetectAMD(2, True, 6000, 300, 2)
```

See Also

OnDetectAMD(), GetVaxErrorCode()

AddCustomHeader()

The AddCustomHeader() function can be used to add custom header fields in the SIP packets of different SIP requests.

Some of the SIP requests; REGISTER, INVITE

Syntax

```
boolean AddCustomHeader(  
                                LineNo,  
                                ReqId,  
                                Name,  
                                Value  
                                )
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

ReqId(integer)

This parameter specifies a unique identification of a SIP request. Supported ReqId values are;

0 = INVITE

1 = REFER

Name(string)

This parameter specifies the name of custom header field.

Value(string)

This parameter specifies the value of custom header field.

Return Value

On successful execution this function returns non-zero value otherwise it returns 0 value and specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
AddCustomHeader(0, 1, "Call_Info", "WaitingTime = 0")
```

See Also

RemoveCustomHeader(), RemoveCustomHeaderAll()

RemoveCustomHeader()

The RemoveCustomHeader() function removes the custom header fields added by using AddCustomHeader() function.

Syntax

```
boolean RemoveCustomHeader(  
                                ReqId,  
                                Name  
                                )
```

Parameters

ReqId(integer)

This parameter specifies a unique identification of a SIP request. Supported ReqId values are;

0 = INVITE

1 = REFER

Name(string)

This parameter specifies the custom header field.

Return Value

On successful execution this function returns non-zero value otherwise it returns 0 value and specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
RemoveCustomHeader(0, "Call_Info")
```

See Also

AddCustomHeader(), RemoveCustomHeaderAll()

RemoveCustomHeaderAll()

The RemoveCustomHeaderAll() function removes all custom header fields added by using AddCustomHeader() function.

Syntax

```
boolean RemoveCustomHeaderAll(ReqId)
```

Parameters

ReqId(integer)

This parameter specifies a unique identification of a SIP request. Supported ReqId values are;

0 = INVITE

1 = REFER

Return Value

On successful execution this function returns non-zero value otherwise it returns 0 value and specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
RemoveCustomHeaderAll(0)
```

See Also

AddCustomHeader(), RemoveCustomHeader()

GetCountPacketLost()

During the call conversation, GetCountPacketLost() returns the number of UDP/RTP (voice stream) packets lost of a specific line.

Syntax

```
integer GetCountPacketLost(LineNo)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Return Value

The function returns a non-zero value on its successful execution otherwise 0.

Example

```
Result = GetCountPacketLost(1)  
if(Result == -1) GetVaxErrorCode()
```

See Also

GetSizeJitterBuffer()

GetSizeJitterBuffer()

During voice conversation, The GetSizeJitterBuffer() returns the size of jitter buffer of a specific line.

Jitter buffers are used to smooth delay variations in received audio by buffering the packets and adjusting their rendering. The result is a smoother delivery of audio to the user.

Syntax

```
integer GetSizeJitterBuffer(LineNo)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Return Value

The function returns a non-zero value on its successful execution otherwise 0.

Example

```
Result = GetSizeJitterBuffer(1)
if(Result == -1) GetVaxErrorCode()
```

See Also

GetCountPacketLost()

GetVideoDevTotal()

The GetVideoDevTotal() function provides the total number of attached video devices.

Syntax

```
integer GetVideoDevTotal()
```

Parameters

No parameters

Return Value

Total number of video devices.

Example

```
GetVideoDevTotal()
```

See Also

GetVideoDevName()

GetVideoDevName()

The GetVideoDevName() function provides the name of specific video device attached to computer.

Syntax

```
string GetVideoDevName(DeviceId)
```

Parameters

DeviceId(integer)

This parameter value can be any number from zero to total number of video devices – 1. Each number corresponds to a particular video device.

Return Value

Device name for corresponding device id, otherwise empty string.

Example

```
GetVideoDevName(-1)
```

See Also

GetVideoDevTotal()

OpenVideoDev()

The OpenVideoDev() function opens a specific video device attached to computer.

Syntax

```
boolean OpenVideoDev(  
    DeviceId,  
    Quality  
)
```

Parameters

DeviceId(integer)

This parameter value can be any number from zero to total number of video devices - 1. Each number corresponds to a particular video device.

Quality(integer)

This parameter value specifies the quality.

0 = LOW
1 = STANDARD
2 = MEDIUM
3 = HIGH
4 = MAX

Return Value

On successful execution this function returns non-zero value otherwise it returns 0 value and specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = OpenVideoDev(0, 3)  
if(Result == 0) GetVaxErrorCode()
```

See Also

CloseVideoDev()

CloseVideoDev()

The CloseVideoDev() function closes a specific video device previously opened by using OpenVideoDev() function.

Syntax

```
void CloseVideoDev(DeviceId)
```

Parameters

DeviceId(integer)

This parameter value can be any number from zero to total number of video devices – 1. Each number corresponds to a particular video device.

Return Value

No return value

Example

```
CloseVideoDev(0)
```

See Also

OpenVideoDev()

CryptoMediaNONE()

The CryptoMediaNONE() function disables encrypted media (audio/video) streaming (SRTP).

Syntax

```
boolean CryptoMediaNONE(Forced)
```

Parameters

Forced(boolean)

This parameter value disables the encrypted media streaming.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = CryptoMediaNONE(1)  
if(Result == 0) GetVaxErrorCode()
```

CryptoMediaSDP()

The CryptoMediaSDP() function enables encrypted media (audio/video) streaming (SRTP).

Syntax

```
boolean CryptoMediaSDP(Forced)
```

Parameters

Forced(boolean)

This parameter value enables the encrypted media streaming.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = CryptoMediaSDP(1)
if(Result == 0) GetVaxErrorCode()
```

DialCallToREC()

The DialCallToREC() function sends call request to SIP REC server.

Syntax

```
boolean DialCallToREC(  
    AccountName,  
    LineNo,  
    DialNo  
)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

DialNo(string)

This parameter specifies the user-name or phone number to be dialed.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = DialCallToREC("TestSIP", 2, "000")  
if(Result == 0) GetVaxErrorCode()
```

See Also

OpenLineREC()

OpenLineREC()

The OpenLineREC() function opens a specific line to connect call to SIP REC server. As VaxVoIP supports multiple calls simultaneously so this function should be called prior to establishing connection, allowing user to dial/receive new calls on available free line.

Syntax

```
boolean OpenLineREC(AccountName, LineNo, RTPRxIP, AudioPortRTP)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

RTPRxIP(string)

The RTPRxIP parameter value specifies the IP address of computer on which VaxVoIP receives voice streams. The ListenIP and RTPRxIP can be different if a computer has multiple IP addresses.

AudioPortRTP(integer)

The AudioPortRTP parameter value specifies the port number to receive voice streams. The Listen ports should be in range of 1024 to 65535 for UDP based transmission and for RTP compliance port number should be even.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = OpenLineREC("TestSIP", 2, "", -1) ; //-1 = auto, "" = auto  
if (Result==0) GetVaxErrorCode( )
```

See Also

CloseLine(), GetVaxErrorCode()

DialRingEnable()

The DialRingEnable() function enable the dial ring.

Syntax

```
boolean DialRingEnable(FileName)
```

Parameters

FileName(string)

This parameter value specifies wave file name to be played as dial ring.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
DialRingEnable("DialRing.wav")
```

See Also

DialRingDisable(), GetVaxErrorCode()

DialRingDisable()

The DialRingDisable() function disables the dial ring functionality.

Syntax

```
boolean DialRingDisable()
```

Parameters

No Parameter.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
DialRingDisable()
```

See Also

DialRingEnable(), GetVaxErrorCode()

BusyRingEnable()

The BusyRingEnable() function enables the busy tone functionality.

Syntax

```
boolean BusyRingEnable(FileName)
```

Parameters

FileName(string)

This parameter value specifies wave file name to be played as busy tone.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
BusyRingEnable("Busy.wav")
```

See Also

BusyRingDisable(), GetVaxErrorCode()

BusyRingDisable()

The BusyRingDisable() function disables the busy tone functionality.

Syntax

```
boolean BusyRingDisable()
```

Parameters

No Parameter.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
BusyRingDisable()
```

See Also

BusyRingEnable(), GetVaxErrorCode()

EnableVideo()

The EnableVideo() function can be used to start or stop video streaming during the call or prior to dialing or receiving the call.

Syntax

```
boolean EnableVideo(  
    LineNo,  
    Outbound,  
    Inbound  
)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Outbound(boolean)

This parameter value enables/disables the outbound video streaming.

Inbound(boolean)

This parameter value enables/disables the inbound video streaming.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
EnableVideo(1, 1, 0)
```

See Also

OnVideoDeviceFrameRGB(), OnVideoRemoteFrameRGB()

GetCallId()

The GetCallId() function returns Call-Id field value of a SIP packet.

Syntax

```
string GetCallId(LineNo)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Return Value

The function returns a string value on its successful execution otherwise empty string, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
GetCallId(0)
```

See Also

GetVaxErrorCode()

IsNetworkAvailable()

The IsNetworkAvailable() function returns the status of the network.

Syntax

```
boolean IsNetworkAvailable()
```

Parameters

No Parameter.

Return Value

The function returns a Non-zero if the network is available otherwise 0

Example

```
IsNetworkAvailable()
```

See Also

OnNetworkReachability(), NetworkReachability()

NetworkReachability()

The NetworkReachability() function activates/deactivates the notification about network availability.

Syntax

```
boolean NetworkReachability(Enable)
```

Parameters

Enable(boolean)

This parameter value enables/disables the notification.

Return Value

The function returns a Non-zero if the network is available otherwise 0

Example

```
NetworkReachability(1)
```

See Also

OnNetworkReachability(), IsNetworkAvailable()

AutoRegistration()

The AutoRegistration() function activates/deactivates the auto-registration functionality.

Syntax

```
boolean AutoRegistration(  
    AccountName,  
    Enable,  
    TryCount,  
    TryAfterSeconds  
)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

Enable(boolean)

This parameter value enables/disables the functionality.

TryCount(integer)

This parameter value specifies total number of auto-registration tries.

TryAfterSeconds(integer)

This parameter value specifies the time period of auto-registration.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
AutoRegistration("TestSIP", true, -1, 10) // (-1 = there is no limit)
```

See Also

OnFailToRegister(), GetVaxErrorCode()

VideoCodecBitRate()

The VideoCodecBitRate() function can be used to set the video codec compression rate.

Syntax

```
boolean VideoCodecBitRate(CodecNo, Quality)
```

Parameters

CodecNo(integer)

This parameter's value is fixed at 0, corresponding to a specific video codec.

VaxVoIP SIP SDK supports the following video codecs:

0 = VP8

Quality(integer)

This parameter value specifies the quality.

0 = LOW

1 = STANDARD

2 = MEDIUM

3 = HIGH

4 = MAX

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
VideoCodecBitRate(0, 1) // (VP8 codec bitrate to standrad)
```

See Also

OpenVideoDev(), CloseVideoDev(), GetVaxErrorCode()

OpenMediaSecondary()

If a computer running the VaxVoIP integrated softphone has multiple sound devices, the OpenMediaSecondary() function opens and captures the secondary media device. VaxVoIP then plays the same audio stream simultaneously on both the primary and secondary sound devices.

It is very useful method and helps to develop call-center training softwares.

Syntax

```
boolean OpenMediaSecondary(InputDeviceId, OutputDeviceId)
```

Parameters

InputDeviceId(integer)

This parameter specifies the id of specific input device to be connected upon call connection however -1 value can be used for default input device.

OutputDeviceId(integer)

This parameter specifies the id of specific output device to be connected upon call connection however -1 value can be used for default output device.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxObjectError() method.

Example

```
Result = OpenMediaSecondary(-1, -1)  
if(Result == 0) GetVaxObjectError()
```

See Also

CloseMediaSecondary()

CloseMediaSecondary()

The CloseMediaSecondary() closes the secondary media.

Syntax

```
boolean CloseMediaSecondary()
```

Parameters

No Parameters

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxObjectError() method.

Example

```
Result = CloseMediaSecondary()  
if(Result == 0) GetVaxObjectError()
```

See Also

OpenMediaSecondary()

ChangeMEDIA()

During the call session, ChangeMEDIA() method allows to shift the voice conversation from one sound device to other sound device.

Syntax

```
boolean ChangeMEDIA(LineNo, InputDeviceId, OutputDeviceId)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line. The range of line number is between 0 to Total number of lines - 1.

InputDeviceId(integer)

This parameter specifies the id of specific input device to be connected upon call connection however -1 value can be used for default input device.

OutputDeviceId(integer)

This parameter specifies the id of specific output device to be connected upon call connection however -1 value can be used for default output device.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxObjectError() method.

Example

```
Result = ChangeMEDIA(0, -1, -1)
if(Result == 0) GetVaxObjectError()
```

See Also

GetVideoDevTotal()

BusyLampAddContact()

The BusyLampAddContact() method adds and subscribes to receive a user statuses e.g online, busy etc. Busylamp functionality must be supported and configured on SIP SERVER side.

Syntax

```
boolean BusyLampAddContact(AccountName, UserName)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

UserName(string)

This parameter value specifies the user-name.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
Result = BusyLampAddContact("TestSIP", "4040")  
if(Result == 0) GetVaxErrorCode()
```

See Also

BusyLampRemoveContact(), GetVaxErrorCode()

BusyLampRemoveContact()

The BusyLampRemoveContact() method removes and unsubscribes a user-name that was already added using BusyLampAddContact() method.

Syntax

```
boolean BusyLampRemoveContact(AccountName, UserName)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

UserName(string)

This parameter value specifies the user-name.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
BusyLampAddContact("TestSIP", "abc")  
BusyLampRemoveContact("TestSIP", "abc")
```

See Also

BusyLampAddContact(), GetVaxErrorCode()

BusyLampFindContact()

The BusyLampFindContact() function determines whether a user-name has already been added via the BusyLampAddContact() method.

Syntax

```
boolean BusyLampFindContact(AccountName, UserName)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

UserName(string)

This parameter value specifies the user-name.

Return Value

The function returns a non-zero value if user-name is found otherwise 0.

Example

```
BusyLampFindContact("TestSIP", "1010")
```

See Also

BusyLampAddContact()

AudioVAD()

The AudioVAD method activates Voice Activity Detection, which identifies when speech is present in an audio signal and sends audio RTP packets only during speech.

Syntax

```
boolean AudioVAD(LineNo, Enable)
```

Parameters

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Enable(boolean)

This parameter enables or disables the VAD (Voice Activity Detection) functionality.

Return Value

The function returns a non-zero value on its successful execution otherwise 0, a specific error code can be retrieved by calling GetVaxErrorCode() method..

Example

```
AudioVAD(0, 1)
```

See Also

AudioSessionLost()

DiagnosticLogSIP()

The DiagnosticLogSIP() method provides the logging and monitoring of SIP messages.

The VaxVoIP component triggers the OnIncomingDiagnostic() or OnOutgoingDiagnostic() event when it receives or sends SIP messages..

Syntax

```
boolean DiagnosticLogSIP(AccountName, Inbound, Outbound)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

Inbound(boolean)

The value of this parameter can be 0 or 1. To enable diagnostic of inbound voice stream assign value 1 to this parameter or 0 to disable it.

Outbound(boolean)

The value of this parameter can be 0 or 1. To enable diagnostic of outbound voice stream assign value 1 to this parameter or 0 to disable it.

Return Value

On successful execution this function returns non-zero value otherwise it returns 0 value and specific error code can be retrieved by calling GetVaxErrorCode() method.

Example

```
DignosticLogSIP("TestSIP", 1, 0)
```

See Also

OnOutgoingDiagnostic(), OnIncomingDiagnostic(), GetVaxErrorCode()

EXPORTED EVENTS

OnInitialized()

The OnInitialized() event notifies that VaxVoIP component has initialized successfully.

Syntax

```
void OnInitialized()
```

Parameters

No parameters

Example

```
OnInitialized()  
{  
}  
}
```

See Also

Initialize(), OnUnInitialized()

OnUnInitialized()

The OnUnInitialized() event notifies that VaxVoIP component has uninitialized successfully.

Syntax

```
void OnUnInitialized()
```

Parameters

No parameters

Example

```
OnUnInitialized()  
{  
}  
}
```

See Also

UnInitialize(), OnInitialized()

OnConnectingToRegister()

VaxVoIP triggers OnConnectingToRegister() event when VaxVoIP starts connecting to the SIP server to start registration process.

Syntax

```
void OnConnectingToRegister(AccountName)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

Example

```
OnConnectingToRegister(AccountName)
{
}
```

See Also

OnTryingToRegister()

OnTryingToRegister()

VaxVoIP triggers OnTryingToRegister() event when client sends the register request to SIP server and request is in process on server end.

Syntax

```
void OnTryingToRegister(AccountName)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

Example

```
OnTryingToRegister(AccountName)
{
}
```

See Also

OnTryingToUnRegister(), OnFailToRegister(), OnSuccessToRegister(), RegisterAccountSIP(), UnRegisterAccountSIP()

OnFailToRegister()

The OnFailToRegister() event triggers when client failed to register with server or registration request has not completed successfully.

Syntax

```
void OnFailToRegister(  
    AccountName,  
    StatusCode,  
    ReasonPhrase  
)
```

Parameters

AccountName(string)
The unique name to identify a SIP account.

StatusCode(integer)
This parameter specifies SIP response status code (486, 404 etc).

ReasonPhrase(string)
This parameter specifies SIP response reason phrase (Unauthorized, Not Found etc).

Example

```
OnFailToRegister(AccountName , StatusCode, ReasonPhrase)  
{  
}
```

See Also

OnFailToUnRegister(), OnFailToRegister(), OnSuccessToRegister(),
RegisterAccountSIP(), UnRegisterAccountSIP()

OnSuccessToRegister()

The OnSuccessToRegister() event triggers when client successfully registered with SIP server.

Syntax

```
void OnSuccessToRegister(AccountName)
```

Parameters

AccountName(string)
The unique name to identify a SIP account.

Example

```
OnSuccessToRegister(AccountName)  
{  
}  
}
```

See Also

OnTryingToRegister(), OnFailToRegister(), OnTryingToUnRegister()
RegisterAccountSIP(), UnRegisterAccountSIP()

OnConnectingToReRegister()

VaxVoIP triggers OnConnectingToReRegister() event when VaxVoIP starts connecting to the SIP server to start re-registration process.

Syntax

```
void OnConnectingToReRegister(AccountName)
```

Parameters

AccountName(string)
The unique name to identify a SIP account.

Example

```
OnConnectingToReRegister(AccountName)  
{  
}  
}
```

See Also

OnTryingToReRegister()

OnTryingToReRegister()

OnTryingToReRegister() event triggers when client sends re-register request to SIP server and request is in process at server end.
It notifies that sip server is processing the re-register request.

Syntax

```
void OnTryingToReRegister(AccountName)
```

Parameters

AccountName(string)
The unique name to identify a SIP account.

Example

```
OnTryingToReRegister(AccountName)  
{  
}  
}
```

See Also

OnSuccessToReRegister(), OnFailToReRegister(), RegisterAccountSIP(),
UnRegisterAccountSIP()

OnFailToReRegister()

The OnFailToReRegister() event triggers when client failed to re-register with server or re-registration request has not completed successfully.

Syntax

```
void OnFailToReRegister(  
    AccountName,  
    StatusCode,  
    ReasonPhrase  
)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

StatusCode(integer)

This parameter specifies SIP response status code (486, 404 etc).

ReasonPhrase(string)

This parameter specifies SIP response reason phrase (Unauthorized, Not Found etc).

Example

```
OnFailToReRegister(StatusCode, ReasonPhrase)  
{  
  
}
```

See Also

OnTryingToReRegister(), OnSuccessToReRegister(), RegisterAccountSIP(),
UnRegisterAccountSIP()

OnSuccessToReRegister()

The OnSuccessToReRegister() event triggers when client successfully re-registered with SIP server.

Syntax

```
void OnSuccessToReRegister(AccountName)
```

Parameters

AccountName(string)
The unique name to identify a SIP account.

Example

```
OnSuccessToRegister(AccountName)  
{  
}  
}
```

See Also

OnTryingToReRegister(), OnFailToReRegister(), RegisterAccountSIP(),
UnRegisterAccountSIP()

OnTryingToUnRegister()

The OnTryingToUnRegister() event triggers when client sends the unregister request to SIP server and request is in process at server end.

Syntax

```
void OnTryingToUnRegister(AccountName)
```

Parameters

AccountName(string)
The unique name to identify a SIP account.

Example

```
OnTryingToUnRegister(AccountName)  
{  
}
```

See Also

OnTryingToRegister(), OnFailToRegister(), OnSuccessToRegister()
RegisterAccountSIP(), UnRegisterAccountSIP()

OnFailToUnRegister()

The OnFailToUnRegister() event triggers when client failed to unregister with server or unregister request has not been completed successfully.

Syntax

```
void OnFailToUnRegister(AccountName)
```

Parameters

AccountName(string)
The unique name to identify a SIP account.

Example

```
OnFailToUnRegister(AccountName)  
{  
}  
}
```

See Also

OnSuccessToUnRegister(), OnSuccessToRegister(), OnTryingToUnRegister()
RegisterAccountSIP(), UnRegisterAccountSIP()

OnSuccessToUnRegister()

The OnSuccessToUnRegister() events triggers when client request to unregister with server is successfully completed.

Syntax

```
void OnSuccessToUnRegister(AccountName)
```

Parameters

AccountName(string)
The unique name to identify a SIP account.

Example

```
OnSuccessToUnRegister(AccountName)  
{  
}  
}
```

See Also

OnFailToUnRegister(), OnSuccessToRegister(), OnTryingToUnRegister()
RegisterAccountSIP(), UnRegisterAccountSIP()

OnDialCallStarted()

The OnDialCallStarted() events triggers when DialCall() method executes.

Syntax

```
void OnDialCallStarted(  
    AccountName,  
    LineNo,  
    CallerName,  
    CallerId,  
    DialNo  
)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

CallerName(string)

This parameter value specifies the caller name which is provided by IP-Telephony or VoIP service provider.

CallerId(string)

The CallerId parameter value specifies the CallerId

DialNo(string)

This parameter specifies the user-name or phone number to be dialed.

Example

```
OnDialCallStarted(AccountName, LineNo, CallerName, CallerId, DialNo)  
{  
}
```

See Also

OnDialingCall(), OnDialCallFailed()

OnDialingCall()

The OnDialingCall() events triggers when client dial a call started with server

Syntax

```
void OnDialCallStarted(  
    AccountName,  
    LineNo,  
    StatusCode,  
    ReasonPhrase  
)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

StatusCode(integer)

This parameter specifies SIP response status code (100, 180 etc).

ReasonPhrase(string)

This parameter specifies SIP response reason phrase (Trying, Ringing etc).

Example

```
OnDialingCall(AccountName, LineNo, StatusCode, ReasonPhrase)  
{  
}
```

See Also

OnDialCallStarted(), OnDialCallFailed()

OnDialCallFailed()

The OnDialCallFailed() events triggers when dialed call fails and SIP server sends a failure response.

Syntax

```
void OnDialCallFailed(  
    AccountName,  
    LineNo,  
    StatusCode,  
    ReasonPhrase  
    Contact  
)
```

Parameters

AccountName(string)
The unique name to identify a SIP account.

LineNo(integer)
This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

StatusCode(integer)
This parameter specifies SIP response status code (486, 404 etc).

ReasonPhrase(string)
This parameter specifies SIP response reason phrase (Unauthorized, Not Found etc).

Contact(string)
This parameter value specifies the contact where SIP server will redirect the call in case of call-forwarding is enabled on SIP server side.

Example

```
OnDialCallFailed(AccountName, LineNo, StatusCode, ReasonPhrase, Contact)  
{  
}
```

See Also

OnDialCallStarted(), OnDialingCall()

OnConnectedCall()

The OnConnectedCall() events triggers when a call gets connected successfully.

Syntax

```
void OnConnectedCall(  
    AccountName,  
    LineNo,  
    ToAddrRTP,  
    ToPortRTP  
)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

ToAddrRTP(string)

This parameter specifies the RTP IP address of remote end.

ToPortRTP(integer)

This parameter specifies the RTP port number of remote end.

Example

```
OnConnectedCall(AccountName, LineNo, ToAddrRTP, ToPortRTP)  
{  
}
```

See Also

OnHungupCall()

OnHungupCall()

The OnHungupCall() events triggers when remote party hangup the call.

Syntax

```
void OnHungupCall(AccountName, LineNo)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Example

```
OnHungupCall(AccountName, LineNo)  
{  
}  
}
```

See Also

OnConnectedCall()

OnIncomingCallStarted()

The OnIncomingCallStarted() event triggers when component receives a call request.

Syntax

```
void OnIncomingCallStarted(  
    AccountName,  
    CallId,  
    CallerName, CallerId,  
    DialNo,  
    FromURI, ToURI  
)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

CallId(string)

The CallId parameter value is a unique identifier for each incoming call. The value of this parameter is generated internally by the system.

CallerName(string)

This parameter value specifies the caller name.

CallerId(string)

This parameter value specifies the callerId.

DialNo(string)

This parameter specifies the user-name or phone number to be dialed.

FromURI(string)

This parameter specifies FromURI in incoming SIP call request.

ToURI(string)

This parameter specifies ToURI in incoming SIP call request.

Example

```
OnIncomingCallStarted(AccountName, CallId, CallerName, CallerId, DialNo,  
    FromURI, ToURI)  
{  
}
```

See Also

AcceptCall(), RejectCall(), HoldLine()

OnIncomingCallEnded()

The OnIncomingCallEnded() event triggers when remote end cancels the call request.

Syntax

```
void OnIncomingCallEnded(AccountName, CallId)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

CallId(string)

The CallId parameter value is a unique identifier for each incoming call. The value of this parameter is generated internally by the system.

Example

```
OnIncomingCallEnded(AccountName, CallId)  
{  
}  
}
```

See Also

AcceptCall(), RejectCall(), HoldLine()

OnRingToneStarted()

The OnRingToneStarted() event notifies VaxVoIP integrated application about to start playing ringtone wave file.

Syntax

```
void OnRingToneStarted(AccountName, CallId)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

CallId(string)

The CallId parameter value is a unique identifier for each incoming call. The value of this parameter is generated internally by the system.

Example

```
OnRingToneStarted(AccountName, CallId)
{
}
```

See Also

OnRingToneEnded()

OnRingToneEnded()

The OnRingToneEnded() event notifies VaxVoIP integrated application to stop the playing of ringtone wave file.

Syntax

```
void OnRingToneEnded(AccountName, CallId)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

CallId(string)

The CallId parameter value is a unique identifier for each incoming call. The value of this parameter is generated internally by the system.

Example

```
OnRingToneEnded(AccountName, CallId)  
{  
}
```

See Also

OnRingToneStarted()

OnTransferCallAccepted()

The OnTransferCallAccepted() event triggers when SIP server acknowledge/accepts the call transfer request.

Syntax

```
void OnTransferCallAccepted(AccountName, LineNo)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Example

```
OnTransferCallAccepted(AccountName, LineNo)
{
}
```

See Also

OnTransferCallFailed()

OnTransferCallFailed()

The OnTransferCallFailed() event triggers when call transfer process fails and SIP Server sends an error response.

Syntax

```
void OnTransferCallFailed(  
    AccountName,  
    LineNo,  
    StatusCode,  
    ReasonPhrase  
)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

StatusCode(integer)

This parameter specifies SIP response status code (486, 404 etc).

ReasonPhrase(string)

This parameter specifies SIP response reason phrase (Unauthorized, Not Found etc).

Example

```
void OnTransferCallFailed(AccountName, LineNo, StatusCode, ReasonPhrase)  
{  
  
}
```

See Also

OnTransferCallAccepted()

OnPlayWaveDone()

The OnPlayWaveDone() event triggers on the completion of playing of a wave file.

Syntax

```
void OnPlayWaveDone(AccountName, LineNo)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Example

```
OnPlayWaveDone(AccountName, LineNo)
{
}
```

See Also

PlayWaveOpen(), PlayWaveClose(), PlayWaveStart(), PlayWaveStop()

OnDigitDTMF()

The OnDigitDTMF() event triggers when remote end pressed any key/DTMF.

Syntax

```
void OnDigitDTMF(  
    AccountName,  
    LineNo,  
    Digit  
)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Digit(string)

This parameter value specifies any digit that has been pressed.
(1, 2, 3, 4, 5, 0, *, #)

Example

```
OnDigitDTMF(AccountName, LineNo, Digit)  
{  
}
```

See Also

DigitDTMF(), SetVolumeDTMF(), GetVolumeDTMF()

OnVoiceMailMsg()

The OnVoiceMailMsg() event triggers when VaxVoIP component receives voice mail notification from SIP server. This event only works if voice mail message service is enabled on SIP server side.

Syntax

```
void OnVoiceMailMsg(  
    AccountName,  
    MsgWaiting, NewMsgCount, OldMsgCount,  
    NewUrgentMsgCount, OldUrgentMsgCount,  
    MsgAccount  
)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

MsgWaiting(boolean)

This parameter value specifies whether some messages are in waiting state or not.

NewMsgCount(integer)

This parameter specifies total count for new messages.

OldMsgCount(integer)

This parameter specifies total count for old messages.

NewUrgentMsgCount(integer)

This parameter value specifies total count for new urgent messages.

OldUrgentMsgCount(integer)

This parameter value specifies total count for old urgent messages.

MsgAccount(string)

This parameter value specifies message account.

Example

```
OnVoiceMailMsg(AccountName, MsgWaiting, NewMsgCount, OldMsgCount,  
    NewUrgentMsgCount, OldUrgentMsgCount, MsgAccount)  
{  
}
```

See Also

OnIncomingDiagnostic()

OnIncomingDiagnostic()

The OnIncomingDiagnostic() event triggers when VaxVoIP receives a SIP packet. This event can be use for logging and monitoring of inbound SIP messages.

Syntax

```
void OnIncomingDiagnostic(  
    AccountName,  
    MsgSIP,  
    FromIP,  
    FromPort  
)
```

Parameters

AccountName(string)
The unique name to identify a SIP account.

MsgSIP(string)
This parameter value specifies the SIP packet message.

FromIP(string)
This parameter value specifies the from IP address.

FromPort(integer)
This parameter specifies the from port number.

Example

```
OnIncomingDiagnostic(AccountName, MsgSIP, FromIP, FromPort)  
{  
}
```

See Also

OnOutgoingDiagnostic()

OnOutgoingDiagnostic()

The OnOutgoingDiagnostic() event triggers when VaxVoIP sends a SIP packet. This event can be use for logging and monitoring of outbound SIP messages.

Syntax

```
void OnOutgoingDiagnostic(  
    AccountName,  
    MsgSIP,  
    ToIP,  
    ToPort  
)
```

Parameters

AccountName(string)
The unique name to identify a SIP account.

MsgSIP(string)
This parameter value specifies the SIP packet message.

ToIP(string)
This parameter value specifies the to IP address.

ToPort(string)
This parameter specifies the to port number.

Example

```
OnOutgoingDiagnostic(AccountName, MsgSIP, ToIP, ToPort)  
{  
}
```

See Also

OnIncomingDiagnostic()

OnAudioSessionLost()

The OnAudioSessionLost() triggers only when client has already enabled session lost through AudioSessionLost() and has not received any voice data for specified interval of time.

Syntax

```
void OnAudioSessionLost(AccountName, LineNo)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Example

```
OnAudioSessionLost(AccountName, LineNo)
{
}
```

See Also

AudioSessionLost()

OnSuccessToHold()

The OnSuccessToHold() event triggers when a call is successfully placed on hold.

Syntax

```
void OnSuccessToHold(AccountName, LineNo)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Example

```
OnSuccessToHold(AccountName, LineNo)  
{  
}  
}
```

See Also

OnTryingToHold(), OnFailToHold(), HoldLine(), UnHoldLine(), IsLineHold()

OnTryingToHold()

The OnTryingToHold() event triggers when client sends the hold request for specific line to SIP server and request is in process on server end.

Syntax

```
void OnTryingToHold(AccountName, LineNo)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Example

```
OnTryingToHold(AccountName, LineNo)  
{  
}
```

See Also

OnSuccessToHold(), OnFailToHold(), HoldLine(), UnHoldLine(), IsLineHold()

OnFailToHold()

The OnFailToHold() event triggers when hold request to server has not been completed successfully.

Syntax

```
void OnFailToHold(AccountName, LineNo)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Example

```
OnFailToHold(AccountName, LineNo)
{
}
```

See Also

OnSuccessToHold(), OnTryingToHold(), HoldLine(), UnHoldLine(),
IsLineHold()

OnSuccessToUnHold()

The OnSuccessToUnHold() event triggers when request to unhold a specific line is completed successfully.

Syntax

```
void OnSuccessToUnHold(AccountName, LineNo)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Example

```
OnSuccessToUnHold(AccountName, LineNo)
{
}
```

See Also

OnTryingToUnHold(), OnFailToUnHold(), HoldLine(), UnHoldLine(),
IsLineHold()

OnTryingToUnHold()

The OnTryingToUnHold() event triggers when client sends the unhold request for specific line to SIP server and request is in process at server end.

Syntax

```
void OnTryingToUnHold(AccountName, LineNo)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Example

```
OnTryingToUnHold(AccountName, LineNo)  
{  
}
```

See Also

OnSuccessToUnHold(), OnFailToUnHold(), HoldLine(), UnHoldLine(),
IsLineHold()

OnFailToUnHold()

The OnFailToUnHold() event triggers when unhold request to server has not been completed successfully.

Syntax

```
void OnFailToUnHold(AccountName, LineNo)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Example

```
OnFailToUnHold(AccountName, LineNo)
{
}
```

See Also

OnTryingToUnHold(), OnSuccessToUnHold(), HoldLine(), UnHoldLine(), IsLineHold()

OnChatContactStatus()

The OnChatContactStatus() event triggers when remote party/user changes the status e.g. busy, away etc.

Syntax

```
void OnChatContactStatus(  
                        AccountName,  
                        UserName,  
                        StatusId  
                        )
```

Parameters

AccountName(string)
The unique name to identify a SIP account.

UserName(string)
This parameter value specifies the user-name.

StatusId(integer)
This parameter value corresponds to particular user chat status.

0 = Online
1 = Offline
2 = Away
3 = On Phone
4 = Busy
5 = Unknown

Example

```
void OnChatContactStatus(AccountName, UserName, StatusId)  
{  
}  
}
```

See Also

ChatSetMyStatus(), ChatAddContact()

OnChatSendMsgTextSuccess()

The OnChatSendMsgTextSuccess() event triggers when chat text message is sent successfully.

Syntax

```
void OnChatSendMsgTextSuccess(  
                                AccountName,  
                                UserName,  
                                MsgText,  
                                UserValue  
                                )
```

Parameters

AccountName(string)
The unique name to identify a SIP account.

UserName(string)
This parameter value specifies the user-name.

MsgText(string)
This parameter value specifies the message text.

UserValue(integer)
This parameter value is a user specified value.

Example

```
void OnChatSendMsgTextSuccess(AccountName, UserName, MsgText  
                                UserValue)  
{  
}
```

See Also

OnChatSendMsgTextFailed(), ChatSendMessageText()

OnChatSendMsgTextFailed()

The OnChatSendMsgTextFailed() event triggers when message sending to remote end failed.

Syntax

```
void OnChatSendMsgTextFailed(  
    AccountName,  
    UserName,  
    StatusCode,  
    ReasonPhrase,  
    MsgText,  
    UserValue  
)
```

Parameters

- AccountName(string)
The unique name to identify a SIP account.
- UserName(string)
This parameter value specifies the user-name.
- StatusCode(integer)
This parameter specifies SIP response status code.
- ReasonPhrase(string)
This parameter specifies SIP response reason phrase (Trying, Ringing etc).
- MsgText(string)
This parameter value specifies the message text.
- UserValue(integer)
This parameter value is a user specified value.

Example

```
void OnChatSendMsgTextFailed(AccountName, UserName, StatusCode,  
    ReasonPhrase, MsgText, UserValue)  
{  
}
```

See Also

OnChatSendMsgTextSuccess(), ChatSendMessageText()

OnChatSendMsgTypingSuccess()

The OnChatSendMsgTypingSuccess() event triggers when typing status is sent successfully.

Syntax

```
void OnChatSendMsgTypingSuccess(  
                                AccountName,  
                                UserName,  
                                UserValue  
                                )
```

Parameters

AccountName(string)
The unique name to identify a SIP account.

UserName(string)
This parameter value specifies the user-name.

UserValue(integer)
This parameter value is a user specified value.

Example

```
void OnChatSendMsgTypingSuccess(AccountName, UserName, UserValue)  
{  
}  
}
```

See Also

OnChatSendMsgTypingFailed(), ChatSendMessageTyping()

OnChatSendMsgTypingFailed()

The OnChatSenMsgTypingFail() event triggers when typing status sending to remote end failed.

Syntax

```
void OnChatSendMsgTypingFailed(  
                                AccountName,  
                                UserName,  
                                StatusCode,  
                                ReasonPhrase,  
                                UserValue  
                                )
```

Parameters

AccountName(string)
The unique name to identify a SIP account.

UserName(string)
This parameter value specifies the user-name.

StatusCode(integer)
This parameter specifies SIP response status code.

ReasonPhrase(string)
This parameter specifies SIP response reason phrase (Trying, Ringing etc).

UserValue(integer)
This parameter value is a user specified value.

Example

```
void OnChatSendMsgTypingFailed(AccountName, UserName, StatusCode,  
                                ReasonPhrase, UserValue)  
{  
}  
}
```

See Also

OnChatSendMsgTypingSuccess(), ChatSendMessageTyping()

OnChatRecvMsgText()

The OnChatRecvMsgText() event triggers when VaxVoIP component receives a text message.

Syntax

```
void OnChatRecvMsgText(  
    AccountName,  
    UserName,  
    MsgText  
)
```

Parameters

AccountName(string)
The unique name to identify a SIP account.

UserName(string)
This parameter value specifies the user-name.

MsgText(string)
This parameter value specifies the message text.

Example

```
OnChatRecvMsgText(AccountName, UserName, MsgText)  
{  
}
```

See Also

OnChatSendMsgTextSuccess(), ChatSendMessageText()

OnChatRecvMsgTypingStart()

The OnChatRecvMsgTypingStart() event triggers when a user at remote end starts typing a text message.

Syntax

```
void OnChatRecvMsgTypingStart(AccountName, UserName)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

UserName(string)

This parameter value specifies the user-name.

Example

```
OnChatRecvMsgTypingStart(AccountName, UserName)
{
}
```

See Also

OnChatSendMsgTypingFailed(), ChatSendMessageTyping(),
OnChatSendMsgTypingSuccess(), ChatSendMessageTyping()

OnChatRecvMsgTypingStop()

The OnChatRecvMsgTypingStop() event triggers when a user at remote end stops typing a text message.

Syntax

```
void OnChatRecvMsgTypingStop(AccountName, UserName)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

UserName(string)

This parameter value specifies the user-name.

Example

```
OnChatRecvMsgTypingStop(AccountName, UserName)
{
}
```

See Also

OnChatSendMsgTypingSuccess(), ChatSendMessageTyping(),
OnChatSendMsgTypingFailed(), ChatSendMessageTyping()

OnDetectAMD()

The OnDetectAMD() event triggers when request for detection of answering machine on specific line is successfully completed.

Syntax

```
void OnDectecAMD(  
    AccountName,  
    LineNo,  
    IsHuman  
)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

IsHuman(boolean)

This parameter value can be 0 or 1. The value 1 corresponds to human voice and value 0 corresponds to answering machine.

Example

```
void OnDetectAMD(AccountName, LineNo, IsHuman)  
{  
}
```

See Also

DetectAMD()

OnHoldCall()

The OnHoldCall() event triggers if VaxVoIP component receives hold request from the SIP Server.

Syntax

```
void OnHoldCall(AccountName, LineNo)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Example

```
void OnHoldCall(AccountName, LineNo)
{
}
}
```

See Also

OnUnHoldCall()

OnUnHoldCall()

The OnUnHoldCall() event triggers if VaxVoIP component receives unhold request from the SIP Server.

Syntax

```
void OnUnHoldCall(AccountName, LineNo)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Example

```
void OnUnHoldCall(AccountName, LineNo)
{
}
}
```

See Also

OnHoldCall()

OnVideoRemoteStarted()

The OnVideoRemoteStarted() event triggers when VaxVoIP component starts receiving the video frames from remote end.

Syntax

```
void OnVideoRemoteStarted(AccountName, LineNo)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Example

```
void OnVideoRemoteStarted(AccountName, LineNo)
{
}
}
```

See Also

OnVideoRemoteEnded(), OnVideoRemoteFrameRGB()

OnVideoRemoteEnded()

The OnVideoRemoteEnded() event triggers when VaxVoIP component stops receiving the video frames.

Syntax

```
void OnVideoRemoteEnded(AccountName, LineNo)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

Example

```
void OnVideoRemoteEnded(AccountName, LineNo)
{
}
}
```

See Also

OnVideoRemoteStarted(), OnVideoRemoteFrameRGB()

OnVideoRemoteFrameRGB()

The OVideoRemoteFrameRGB() event triggers when VaxVoIP component receives a video frame.

Syntax

```
void OnVideoRemoteFrameRGB(  
    AccountName, LineNo,  
    FrameRGB, FrameSize,  
    FrameWidth, FrameHeight  
)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

LineNo(integer)

This parameter value specifies the specific line. The LineNo value is a unique number to identify a specific line.

FrameRGB(integer)

Frame data in the form of RGB.

FrameSize(integer)

Specifies the Frame data size.

FrameWidth(integer)

Specifies the Frame width.

FrameHeight(integer)

Specifies the Frame height.

Example

```
void OnVideoRemoteFrameRGB(AccountName,LineNo, FrameRGB,  
    FrameSize, FrameWidth, FrameHeight)  
{  
}
```

See Also

OnVideoDeviceFrameRGB(), OnVideoRemoteStarted()

OnVideoDeviceFrameRGB()

The OVideoDeviceFrameRGB() event triggers when VaxVoIP component receives a video frame from camera device for preview purposes.

Syntax

```
void OnVideoDeviceFrameRGB(  
    DeviceId,  
    FrameRGB,  
    FrameSize,  
    FrameWidth,  
    FrameHeight  
)
```

Parameters

DeviceId(integer)

This parameter value can be any number from zero to total number of video devices - 1. Each number corresponds to a particular video device.

FrameRGB(integer)

Frame data in the form of RGB.

FrameSize(integer)

Specifies the Frame data size.

FrameWidth(integer)

Specifies the Frame width.

FrameHeight(integer)

Specifies the Frame height.

Example

```
void OnVideoDeviceFrameRGB(DeviceId, FrameRGB, FrameSize,  
    FrameWidth, FrameHeight)  
{  
  
}
```

See Also

OnVideoRemoteFrameRGB(), OpenVideoDev()

OnAddCallHistory()

The OnAddCallHistory() event triggers when component notifies about the call info for call history purposes.

Syntax

```
void OnAddCallHistory(  
    AccountName,  
    OutboundCallType,  
    CallerName, CallerId,  
    DialNo,  
    StartTime, EndTime,  
    Duration,  
    HistoryTypeId  
)
```

Parameters

AccountName(string)

The unique name to identify a SIP account.

Outbound(boolean)

This parameter value is call type (outbound or inbound).

CallerName(string)

This parameter specifies the Caller-Name.

CallerId(string)

This parameter specifies the Caller-Id.

DialNo(string)

This parameter specifies the dialer number.

StartTime(integer)

This parameter specifies the start time of the call.

EndTime(integer)

This parameter specifies the end time of the call.

Duration(integer)

This parameter specifies the total duration of the call.

HistoryTypeId(integer)

This parameter specifies the history type of the call.

0 = Outbound call type

1 = Inbound call type

2 = Missed call type

3 = Rejected call type

Example

```
OnAddCallHistory(AccountName, Outbound, CallerName, CallerId, DialNo,  
                 StartTime, EndTime, Duration, HistoryTypeId)  
{  
}
```

See Also

OnConnectedCall(), OnHungupCall()

OnNetworkReachability()

The OnNetworkReachability() event notifies the network availability.

Syntax

```
void OnNetworkReachability(Available)
```

Parameters

Available(boolean)

This parameter value can be 0 or 1.

Example

```
OnNetworkReachability(Available)  
{  
}  
}
```

See Also

IsNetworkAvailable(), NetworkReachability()

OnAudioDeviceMicVU()

The OnAudioDeviceMicVU() event notifies the microphone's VU level.

Syntax

```
void OnAudioDeviceMicVU(LevelVU)
```

Parameters

LevelVU(boolean)

This parameter specifies the VU value (0 to 100).

Example

```
OnAudioDeviceMicVU(LevelVU)  
{  
}  
}
```

See Also

OnAudioDeviceSpkVU(), AudioDeviceVU()

OnAudioDeviceSpkVU()

The OnAudioDeviceSpkVU() event notifies the speaker's VU level.

Syntax

```
void OnAudioDeviceSpkVU(LevelVU)
```

Parameters

LevelVU(boolean)

This parameter specifies the VU value (0 to 100).

Example

```
OnAudioDeviceSpkVU(LevelVU)  
{  
}  
}
```

See Also

OnAudioDeviceMicVU(), AudioDeviceVU()

OnVaxErrorMsg()

The OnVaxErrorMsg() event triggers when a specific VaxVoIP exported method fails.

Syntax

```
void OnVaxErrorMsg(FuncName, ErrorMsg, ErrorCode)
```

Parameters

FuncName(string)

This parameter specifies VaxVoIP exported method name.

ErrorMsg(string)

This parameter specifies VaxVoIP method failure reason.

ErrorCode(integer)

This parameter specifies VaxVoIP method failure code.

Example

```
OnVaxErrorMsg(FuncName, ErrorMsg, ErrorCode)
{
}
```

See Also

GetVaxErrorCode(), GetVaxErrorMsg()

LIST OF ERROR CODES

10	Make your SIP Account online first. Failed to initialize VaxVoIP Library.
11	Failed to open SIP listen port or provided SIP listen IP is incorrect.
12	License key is not valid or expired.
13	Failed to initialize task manager.
14	Unable to access sound input device.
15	Unable to access sound output device
16	Unable to capture sound input device.
17	Unable to capture sound output device.
18	Audio device does not support Mic volume.
19	Audio device does not support Speaker volume.
20	Recording media initialization failed.
21	Unable to access wave file.
22	Provided SIP URI is invalid.
23	Selected codec is not supported.
24	Error to create SDP Packet.
25	Error to create SIP CONNECTION Packet.
26	Error to create SIP REGISTER Packet.
27	Error to create SIP UN-REGISTER Packet.
28	Error to create SIP DISCONNECT Packet.
29	Provided LineNo is invalid.
30	Provided LineNo is busy.
31	Provided LineNo is not ready to use.
32	Invalid Call-ID.
33	Function parameter is invalid.
34	Provided LineNo is not in Voice Session.
35	Failed to read sound file.
36	Failed to write sound file.
37	Unsupported sound file format.
38	Error to create SIP CANCEL Packet.
39	License limit exceeded.
40	Chat contact does not exist.
41	Chat contact subscription does not exist.
42	Unable to create presence notify request.
43	Unable to create presence request.
44	Unable to capture video device.
45	Functionality is not supported.
46	Network is not available.
47	BusyLamp contact does not exist.
48	Account does not exist.
49	Account initialization failed.
50	Unable to create socket dispatcher.
51	Unable to post socket dispatcher.
52	Unable to process socket dispatcher.
53	Socket binding address failed.
54	Socket binding address already in use.

55	Socket general error.
56	Socket failed time-out.
57	Failed to assign/allocate RTP port.
58	Crypto audio or video media mismatched.
59	Connection to the destination address failed.
60	Unable to capture or bind to the destination address.
61	Unable to create thread dispatcher.
62	Unable to post message to thread dispatcher.
63	Unable to process to thread dispatcher.
64	Terminating abnormally thread dispatcher.