

# VaxVoIP

SIP SOFTPHONE SDK

## WEB PHONE SDK

Microsoft Windows Desktop OS  
TECHNICAL DOCUMENTATION

VERSION 2.2

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## **INTRODUCTION AND QUICK START**

The VaxVoIP SIP WebPhone SDK is a software development kit which is used to quickly embed WebRTC and SIP (Session Initiation Protocol) based softphone features to web based software. It provides full support to develop the webphone as desired like having your own GUIs or incorporating your brand name.

## **EXPORTED FUNCTIONS**

### **GetVersionFile()**

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

#### **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 SDK.

**Syntax**

```
string GetVersionSDK()
```

**Parameters**

No parameters.

**Return Value**

The function returns the SDK version number.

**Example**

```
GetVersionSDK()
```

**See Also**

GetVersionFile()

## SetLicenceKey()

The trial version of VaxVoIP SDK has trial period limitation of 30 days, so a license key is required after 30 days to avoid evaluation message box. License keys are delivered to customers on order.

The SetLicenceKey() method is used to make the trial version working as registered version without expiry and trial period limitation.

### Syntax

```
boolean SetLicenceKey(LicenceKey)
```

### Parameters

LicenseKey (string)

The value of this parameter is license key provided by the company.

### 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

```
SetLicenceKey("LicenseKey")  
Initialize("192.168.0.3", 8080, "", "", "")
```

### See Also

Initialize(), GetVaxErrorCode()

## Initialize()

The Initialize() function initializes VaxServerWebRTC COM component. It allocates listen port, starts listening for incoming webphone/websocket connections and triggers the COM (Component Object Model) events accordingly.

### Syntax

```
boolean Initialize(ListenIP, ListenPort, CertKeySSL, CertCrtSSL, PathURL)
```

### Parameters

ListenIP (string)

The value of this parameter specifies the IP of the machine (computer) where VaxServerWebRTC listen for incoming connections.

ListenPort (integer)

The value of this parameter specifies the port number for VaxServerWebRTC to receive connections.

CertKeySSL (string)

This parameter value specifies the SSL Key or File-Name (.pvk) otherwise leave it blank.

CertCrtSSL (string)

This parameter value specifies the SSL Certificate or File-Name (.crt) otherwise leave it blank.

PathURL (string)

This parameter value specifies the WebSocket URL path otherwise leave it blank.

### 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("192.168.0.119", 5060, "", "", "")  
If(Result == 0) GetVaxErrorCode()
```

### See Also

UnInitialize(), GetVaxErrorCode(), GetVaxErrorMsg()

**UnInitialize()**

The UnInitialize() function releases all the memory/resources that were held during component initialization.

**Syntax**

```
UnInitialize()
```

**Parameters**

No parameters.

**Return Value**

No return value.

**Example**

```
UnInitialize()
```

**See Also**

Initialize()

**GetVaxErrorCode()**

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

**Syntax**

```
integer GetVaxErrorCode()
```

**Parameters**

No parameters

**Return Value**

The function returns error code.

**Example**

```
Result = Initialize("192.168.0.119", 5060, "", "", "")  
If(Result == 0) GetVaxErrorCode()
```

**See Also**

GetVaxErrorMsg()

**GetVaxErrorMsg()**

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

**Syntax**

```
string GetVaxErrorMsg()
```

**Parameters**

No parameters

**Return Value**

The function returns error message text.

**Example**

```
Result = Initialize("192.168.0.119", 5060, "", "", "")  
If(Result == 0) GetVaxErrorMsg()
```

**See Also**

GetVaxErrorCode()

**GetClientCount()**

The GetClientCount() retrieves total number of connected WebPhone or WebSocket clients.

**Syntax**

```
int GetClientCount()
```

**Parameters**

No parameters.

**Return Value**

The function returns total number of connected WebPhone/WebSocket clients.

**Example**

```
GetClientCount()
```

**See Also**

GetVersionFile()

## GetStartListenIP()

The GetStartListenIP() method starts to iterate over the assigned IP addresses of the machine (computer) where VaxServerWebRTC is running.

### Syntax

```
boolean GetStartListenIP()
```

### 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 GetVaxErrorCode() method.

### Example

```
GetStartListenIP()
Loop()
{
    string ListenIP = GetNextListenIP()
}
```

### See Also

GetNextListenIP()

## GetNextListenIP()

The GetNextListenIP() method is useful for iterating through all the IP addresses assigned to the machine (computer) where VaxServerWebRTC is running.

### Syntax

```
string GetNextListenIP()
```

### Parameters

No parameters.

### Return Value

The function returns the next IP address.

### Example

```
GetStartListenIP()
Loop()
{
    string ListenIP = GetNextListenIP()
}
```

### See Also

GetStartListenIP()

**BuildWebSocketURL()**

The BuildWebSocketURL() method builds the native/VaxVoIP assigned WebSocket URL.

**Syntax**

```
string BuildWebSocketURL()
```

**Parameters**

No parameters.

**Return Value**

The function returns the WebSocket URL.

**Example**

```
BuildWebSocketURL()
```

**See Also**

GetVersionFile()

## **SetListenPortRangeRTP()**

The SetListenPortRangeRTP() adjusts the given Listen-Port range, so that VaxServerWebRTC allocates/opens the listen RTP port within that range.

### **Syntax**

```
boolean SetListenPortRanegRTP(ListenPortMIN, ListenPortMAX)
```

### **Parameters**

ListenPortMIN (integer)

The value of this parameter specifies starting value of the range.

ListenPortMAX (integer)

The value of this parameter specifies end value of the range.

### **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**

```
SetListenPortRangeRTP(40000, 50000)
```

### **See Also**

GetVersionFile()

## **EXPORTED EVENTS**

### **OnVaxErrorMsg()**

The OnVaxErrorMsg() event notifies that execution of any method has failed.

#### **Syntax**

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

#### **Parameters**

FuncName (string)

This parameter value specifies name of the function.

ErrorMsg (string)

This parameter value specifies error text message.

ErrorCode (integer)

This parameter value specifies error code.

#### **Example**

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

#### **See Also**

GetVaxErrorCode(), GetVaxErrorMsg()