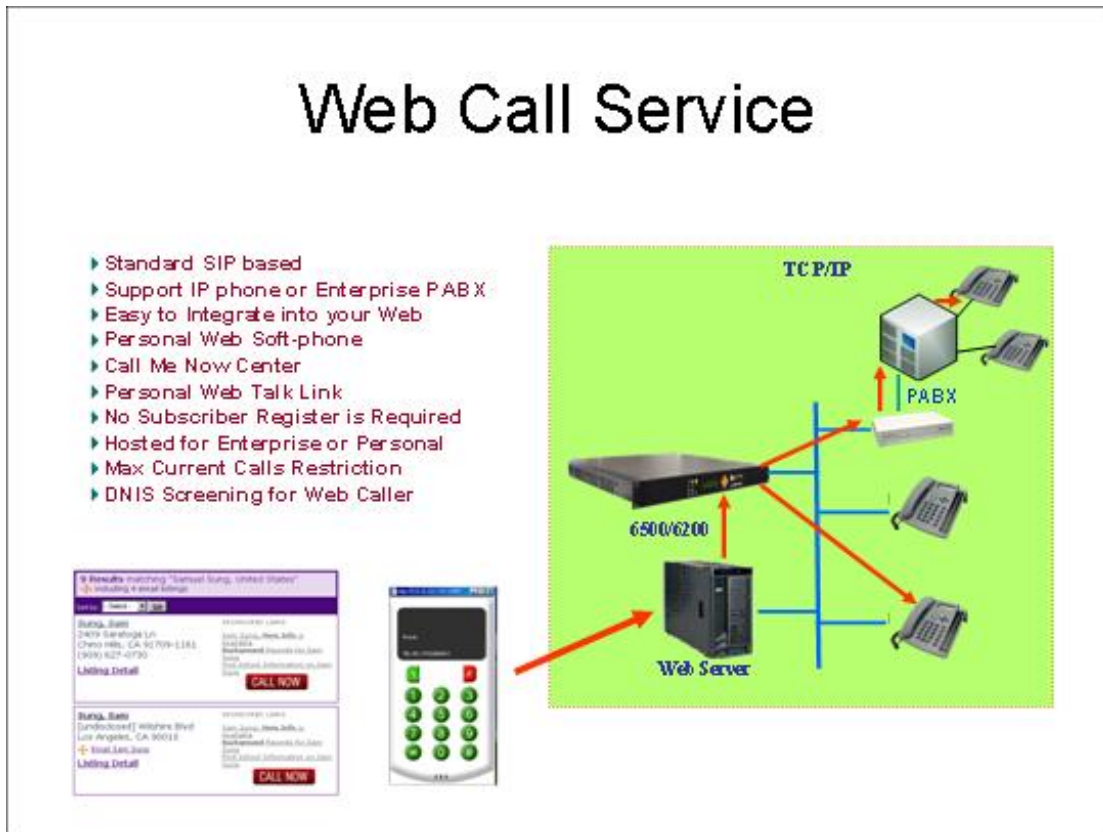


The Implementation Guide for Welltech Web Call Service

Target Objective:

Welltech Web Call solution provides an easy way to be integrated into your Web home page to provide a free call from your customer or supplier to your business. It doesn't like 800 caller free-calls which the enterprise pays for it. The Welltech Web call solution using the VOIP to provide you a truly free 800 call services. It can be used for call center, service center, help desk or sales leads.



Recommendations:

WellSIP 6500/6200 Settings:

1. Make sure you have got Web Call license from Welltech
2. System Parameter Changes:
 - System -> Advance -> Valid Period Auth Mode: MD

System Configuration

Call Validation Time :	<input type="text" value="3600"/>
NAT Compare Method :	<input type="text" value="IP Only"/>
RetransmissionT1 (msec.) :	<input type="text" value="500"/>
RetransmissionT2 (msec.) :	<input type="text" value="4000"/>
RetransmissionT4 (msec.):	<input type="text" value="5000"/>
Cancel General No Response Timer (msec.):	<input type="text" value="8000"/>
General Request Timeout Timer (msec.):	<input type="text" value="4000"/>
Proxy 2XX Rcvd Timer (msec.):	<input type="text" value="32000"/>
Proxy 2XX Sent Timer (msec.):	<input type="text" value="16000"/>
Use Domain for Auth :	<input type="radio"/> Yes <input checked="" type="radio"/> No
General Guard Time :	<input type="text" value="5"/>
Nonce Valid Period :	<input type="text" value="1200"/>
Valid Period Auth Mode :	<input checked="" type="radio"/> MD <input type="radio"/> None

3. Create a Web Caller Subscriber (e.g. 070111)

- Subscriber TEL: 070111
- Subscriber User ID: 070111
- Subscriber Password: ***** (please make sure you give a random password to have strong enough security)
- Subscriber Type: WEB Caller
- Authentication Mode: Invite
- Max Concurrent Call: 2 (2 simultaneously calls for this customer)
- Apply

Active Mode :	<input checked="" type="radio"/> Active <input type="radio"/> InActive		
TEL NO :	<input type="text" value="070111"/>	User Account :	<input type="text" value="070111"/>
User Password :	<input type="text" value="*****"/>	Web Password :	<input type="text"/>
User Group :	<input type="text" value="0 - CO-Server"/>	Authentication Mode :	<input type="text" value="Invite"/>
DNIS Screening Group :	<input type="text" value="None"/>	Call Authorization Mode :	<input type="text" value="None"/>
Emergency Group :	<input type="text" value="None"/>	Caller ID Mode :	<input type="text" value="Transparent"/>
Device Type :	<input type="text" value="WEB Caller"/>	Hunting Method :	<input type="text" value="Sequential"/>
Preferred RTP Group :		Register Type :	
RTP Proxy :		Predefine URI 1:	
NAT Group :		Predefine URI 2:	
Max Register Time :	<input type="text" value="0"/>	Max NAT Register Time :	<input type="text" value="0"/>
First Reponse Time :	<input type="text" value="0"/>	No Answer Timer :	<input type="text" value="0"/>
Max Contact Allowed :	<input type="text" value="1"/>	Pickup Group :	
Device 1 :	<input type="text" value="None"/>	Device 2 :	<input type="text" value="None"/>
Max Concurrent Call:	<input type="text" value="2"/>	Call Validation :	<input type="text" value="Invite"/>
Over Max Contact Rule :	<input type="text" value="Use Global Setting"/>	AAA Sending Stage :	<input type="text" value="Use Global Setting"/>
<input type="checkbox"/> Effective Period	<input type="text"/>	<input type="checkbox"/> Remove Tag For Cancel	
<input type="checkbox"/> Disallow register from NAT			
Description:	<input type="text"/>		

- Click Service

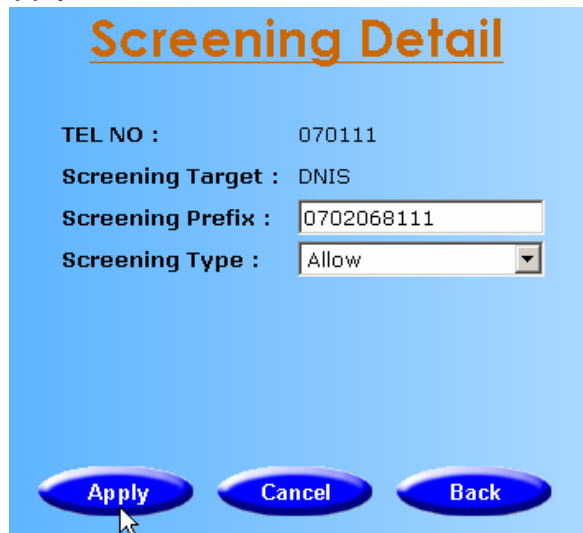


Setup Service

Screening Service : [Personal DNIS Screening](#)

[Copy](#) [Mask](#) [Back](#)

- Enable Person DNIS Screening and add the required DNIS Screening (e.g. 0702068111 allow). It will allow call 0702068111xx only. It is recommended to add the screening for each web call customer.
- Apply



Screening Detail

TEL NO : 070111

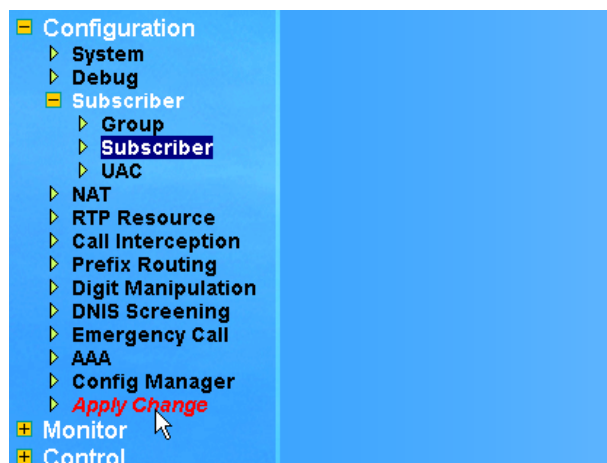
Screening Target : DNIS

Screening Prefix :

Screening Type :

[Apply](#) [Cancel](#) [Back](#)

4. Apply Change



- [-] Configuration
 - ▶ System
 - ▶ Debug
 - [-] Subscriber
 - ▶ Group
 - ▶ **Subscriber**
 - ▶ UAC
 - ▶ NAT
 - ▶ RTP Resource
 - ▶ Call Interception
 - ▶ Prefix Routing
 - ▶ Digit Manipulation
 - ▶ DNIS Screening
 - ▶ Emergency Call
 - ▶ AAA
 - ▶ Config Manager
 - ▶ **Apply Change**
- [-] Monitor
- [-] Control

Sample Code Files included:

Demo.jsp: main demo page to show the different company to call

Dialing.jsp: load Web call component and start the call

Sipocx.cab: Web Call OCX to be downloaded to IE

Status1.js: Java Script include file for call event handling

pic: the directory contains the sample pictures

Minimum changes are required to run the demo jsp:

Parameters need to be changed for web caller settings:

- String TEL No = "00002"; //web caller user id
- String Password = "00002"; //web caller password
- String Server IP = "192.168.19.77"; //proxy server IP
- String Server Port = "8085"; //proxy server UDP port (it is recommended to use 8000-9999)

Calling dial function to run dialing.jsp. The parameter is called party number:

- Dial(Tel)

The API Reference for Web Call Component 1.0.x

1. Property

1.1 Apply To [mandatory]

Set OCX to become the web caller mode

Long Apply To

1: Web Caller

1.2 Codec Priority [mandatory]

Set the priority of the codec of RTP payload

BSTR Codec Priority

g.729: Supported & recommended used for web caller

g.711Alaw64k: Supported (not recommended)

g.711Ulaw64k: Supported (not recommended)

g.723.1: Optional (contact Welltech if need)

For multiple codec selection, sing comma as the delimiters (e.g.

g.729, g.711Alaw64K)

1.3 EchoLen

Set the tail length of the AEC (128ms-512ms)

Short EchoLen

Unit: ms

Default: 256ms

1.4 MicVol Level

Adjust the audio-level of the microphone

Short MicVol Level

Unit: dB

Range: -20 db ~ +20 db, default is 0 (0db)

1.5 Network Interface Index

Set the sipocx using which network interface on the computer

Short Network Interface Index

Default: 0 (for most of case)

1.6 Password [mandatory]

The web caller's password on WS6500/6200

BSTR Password

1.7 PayLoad Len [mandatory]

Set the length of the RTP payload

Long PayLoadLen

Unit: Bytes

G729/G.711: 20/40/60 (20ms is recommended)

1.8 Proxy IP [mandatory]

The 6500/6200 server's IP

BSTR Proxy IP

1.9 Proxy Port [mandatory]

The 6500/6200 server's SIP Service Port

Short Proxy Port

1.10 Secured

Enable Welltech Encrypted/Decryption for SIP and RTP.

boolean Secured

Default: false

If you turn on secured option, please register to WS6500/6200 encryption port (NOT regular port)

1.11 SpkVol Level

Adjust the audio-level of the speaker

Short SpkVol Level

Unit: dB

Range: -20db ~ 20db, default is 0 db

1.12 Tel Event Payload Type [mandatory]

Set the payload type for DTMF relay (RFC 2833)

Short Tel Event Payload Type

101 is recommended

Only apply when User Input Type is 0 (RFC 2833)

1.13 Tel No [mandatory]

WS6500 register telephone number

BSTR Tel No

1.14 User Input Type [mandatory]

Set the transmit method of the DTMF

Short User Input Type

0: RFC2833 (default and recommended)

2: SIP INFO

1.15 User Name [mandatory]

WS 6500 Web caller User Name

BSTR User Name

Method

2.1 BusyTone

Set the busy tone file

boolean Busy Tone(BSTR IpWaveFile)

Parameter:

IpWaveFile: The Busy Tone play back file name. The file must be a Windows Wav format based on Liner PCM 11KHz Mono.

Return:

True: success

False: failure

2.2 Cancel Call

Cancel an outgoing call (used only in ringing state)

boolean CancelCall(short sChannelID)

Parameter:

sChannelID: The channel ID returned by Make Call method.

Return:

True: success

False: failure

2.3 Channel Status

Get the channel status

long Channel Status(short sChannelID)

Parameter:

sChannelID: The channel ID returned by Make Call method.

Return:

Channel Status (refer to Appendix 1)

STATE_ERROR: Channel ID doesn't existed or failed to get the channel status

2.4 ndWeb

Terminate and unload the sipocx

boolean EndWeb()

Parameter:

None

Return:

True: success

False: failure

2.5 GetUSBVolume

Get current device voice volume

short GetUSBVolume(long iDevice)

Parameter:

iDevice:

0: speaker

1: microphone.

Return:

The voice volume of the selected device

2.6 HangUp

Hang-up a connected/Failed call

boolean HangUp(short sChannelID)

Parameter:

sChannelID: The channel ID returned by MakeCall method.

Return:

True: success

False: failure

2.7 HoldTone

Set the music file for hold state which is wav file based on Liner PCM 11KHz Mono.

boolean HoldTone(BSTR lpWaveFile)

Parameter:

lpWaveFile: The hold tone WAV file (full file name with path)

Return:

True: success

False: failure

2.8 Init

Initialize the sipocx

long Init()

Parameter:

None

Return:

-1: failure

0: success

2.9 KeepSIPSession

Send an OPTION message periodically. It is recommended to set the interval to 30-50 seconds in order to get through NAT traversal.

boolean KeepSIPSession(short sInterval)

Parameter:

sInterval: 0: disable

It is recommended to set to 30-50 seconds.

Return:

True: success

False: failure

2.10 MakeCall

Make an outbound call

Short MakeCall(BSTR sDNIS)

Parameter:

sDNIS: Called Party Number

Return:

>=0: The channel identifier

-1: failure

2.11 PlayKeyWave

Play a DTMF tone to caller

boolean PlayKeyWave(short sKeyNum)

Parameter:

sKeyNum: 0-9: DTMF Digits

10: *

11: #

Return:

True: success

False: failure

2.12 RingBackTone

Set the ring back tone file when remote party is ringing.

boolean RingBackTone(BSTR IpWaveFile)

Parameter:

IpWaveFile: The ring back tone WAV file (full file name with path)

Return:

True: success

False: failure

2.13 SendUserInput

Send a DTMF out to remote party (RFC 2833 or SIP INFO)

Long SendUserInput(short sSendUserInput, short sChannelID)

Parameter:

sSendUserInput:

0-9: DTMF Digits

10: *

11: #

sChannelID: The channel ID returned by MakeCall method.

Return:

0: success

2.14 SetUSBVolume

Set the device volume

void SetUSBVolume(long iDevice, short nNewValue)

Parameter:

iDevice:

0: speaker

1: microphone

nNewValue: voice volume

Return:

None

2. Event

3.1 CallBusy

The destination user is busy

void CallBusy()

3.2 CallConnected

The Call is connected

void CallConnected()

3.3 CallDropped

The call is disconnected

void CallDropped()

3.4 CallForbidden

The outbound call is forbidden by proxy.

void CallForbidden()

3.5 CallHold

The call has been put on hold state

void CallHold()

3.6 CallNoAns

No answer from remote party

void CallNoAns()

3.7 CallNotFound

Wrong destination number

void CallNotFound()

3.8 CallRingBack

The remote party is ringing.

void CallRingBack()

3.9 CalledNotOnline

The remote party is temporary unavailable

void CalledNotOnline()

3.10 MicVolumeChanged

The microphone voice volume has been changed

void MicVolumeChanged()

3.11 SpkVolumeChanged

The speaker voice volume has been changed

void SpkVolumeChanged()

3.12 NetWorkError

Network error

void NetWorkError()

3.13 Ready

The web call is ready to use

void Ready()

4 Appendix 1

4.1 STATE_ENUM

```
STATE_HANGUP = 0, //0
STATE_HOLD, //1
STATE_CANCEL_HOLD, //2
STATE_HOLDING, //3
STATE_CALL_BUSY, //4
STATE_READY, //5
STATE_CANCEL_CALL, //6
STATE_CALL_MAKING, //7
STATE_CONNECTED, //8
STATE_DISCONNECTED, //9
STATE_CALL_INCOMING, //10
STATE_CALLED_NOT_ONLINE, //11
STATE_CALL_FORBIDDEN, //12
STATE_CALL_NO_BALANCE, //13
STATE_CALL_NOT_FOUND, //14
```

STATE_ERROR,//15
STATE_TRANSFERHOLDING,//16
STATE_TRANSFERHOLD,//17
STATE_REFER_ACCEPTED,//18
STATE_GET_VOICE_MAIL,//19
STATE_FUNCTION_KEY_SUCCESS,//20
STATE_GET_CONF_MEMBERS,//21
STATE_CONF_OUT_OF_RESOURCE,//22
STATE_CONF_MEMBER_BUSY,//23
STATE_CONF_MEMBER_NOT_FOUND,//24
STATE_CONF_MEMBER_FORBIDDEN,//25
STATE_UNREGISTER_OK,//26
STATE_CONF_MEMBER_NO_ANSWER,//27
STATE_BAD_REQUEST,//28
STATE_CALL_NOANS,//29