

#### Avaya Solution & Interoperability Test Lab

# **Application Notes for Configuring iCALL Solution with Avaya IP Office 9.0 - Issue 1.0**

#### **Abstract**

These Application Notes describe the procedures for configuring iCALL Solution with Avaya IP Office. iCALL Solution integrates with Avaya IP Office by the Microsoft Telephony Application Programmer Interface (TAPI).

Information in these Application Notes has been obtained through DevConnect compliance testing and additional technical discussions. Testing was conducted via the DevConnect Program at the Avaya Solution and Interoperability Test Lab.

#### 1. Introduction

These Application Notes describe the configuration steps required for iCALL Solution to successfully interoperate with Avaya IP Office. iCALL solution is made up of 3 major components, namely Computer Telephony Integration (CTI), Interactive Voice Response (IVR) and Recording System. CTI allows for screen-pops with customer information available to agent prior to the call connection with the customer. IVR allows detection of voice and keypad inputs. The Recording System records voice for inbound and outbound calls. It can store correspondence in multiple formats.

# 2. General Test Approach and Test Results

For feature testing, the general test approach was to queue incoming calls to the agents. The call flow is developed with a service builder tools with the IVR. Agents use OCX application on their desktop to manage incoming and outgoing calls. Call Management System (CMS) was used to collect call records for the agents' inbound and outbound calls. For serviceability testing, failures such as reboot of the iCALL Server and the Avaya IP Office were applied.

DevConnect Compliance Testing is conducted jointly by Avaya and DevConnect members. The jointly-defined test plan focuses on exercising APIs and/or standards-based interfaces pertinent to the interoperability of the tested products and their functionalities. DevConnect Compliance Testing is not intended to substitute full product performance or feature testing performed by DevConnect members, nor is it to be construed as an endorsement by Avaya of the suitability or completeness of a DevConnect member's solution.

## 2.1. Interoperability Compliance Testing

The interoperability compliance test included both feature and serviceability testing.

The feature testing focused on verifying iCALL Solution's handling of TAPI messages to request and respond to Avaya IP Office features. The serviceability testing introduced failure scenarios to verify iCALL Server could resume operation after failure recovery.

#### 2.2. Test Results

All feature and serviceability tests passed. Note that for TAPI control, the agent cannot reject incoming calls and hence this feature is not supported.

## 2.3. Support

For technical support on iCALL Solution, contact NSE Telecom at:

Phone: +86-21-62290011
Fax: +86-21-62348877

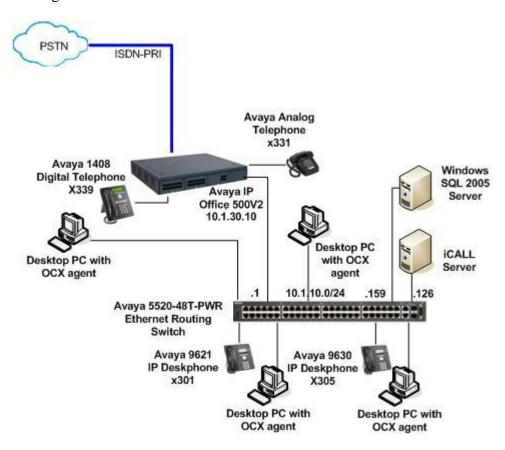
• Email: nsetelecom@nsetelecom.com

# 3. Reference Configuration

**Figure 1** illustrates the test configuration used to verify the iCALL Solution. The setup of this compliance testing comprised of an Avaya IP Office 500V2 which has connections to the following: Avaya 9621 IP Deskphone (H323), Avaya 9630 IP Deskphone (H323), Avaya 1408 Digital Telephone, Avaya analog telephone and an ISDN-PRI trunk to the PSTN. At one time, only 3 agents are used for testing. So, only 3 logical agents are created. The spare IP stations can be used as utility phones.

iCALL Solution is installed on a server running Microsoft Windows 2003 R2. In short, it is termed as iCALL Server. It has connections to the IP Office 500V2 via two IVR SIP extensions for queuing of calls and playing announcements and one SIP extension for recording of calls. Agent OCX is installed on desktop PCs running Microsoft Windows 7 Enterprise version Service Pack 1 and is used to control the IP, Digital and analog telephones respectively.

In this compliance testing, IP Office Manager is installed on a separate Windows 2003 R2 server (not shown) for managing the setup of the phones and hunt group. The Avaya 5520-48T-PWR Ethernet Routing Switch provides Ethernet connectivity to the servers and IP telephones and Layer 3 IP routing.



**Figure 1: Test Configuration** 

## 4. Equipment and Software Validated

The following equipment and software were used for the sample configuration provided:

Equipment/Software	Release/Version
Avaya IP Office 500V2	9.0
Avaya IP Office Manager on Windows 2003 R2	9.0.200.860
Server	
Avaya 9621 IP Deskphone (H.323)	6.3.1
Avaya 9630 IP Deskphone (H.323)	32.1
Avaya 1408 Digital Telephone	R38
Avaya Analog Telephone	-
Avaya 5520-48T-PWR Ethernet Routing Switch	V6.2.4.010
iCALL Server on Windows 2003 R2 Server	2.0
OCX Agent PCs on	2.0
Windows 7 SP1	

# 5. Configure Avaya IP Office

This section provides the procedures for configuring Avaya IP Office. The procedures include the following areas:

- Verify IP Office license
- Obtain LAN IP address
- Configure Call Listen Short Code
- Administer SIP Registrar
- Administer SIP extensions for IVR and Recording line
- Administer SIP users for IVR and Recording line
- Administer Agent users
- Configuring Monitoring Hunt Group
- Configuring Call Center Hunt Group
- Administer incoming call route

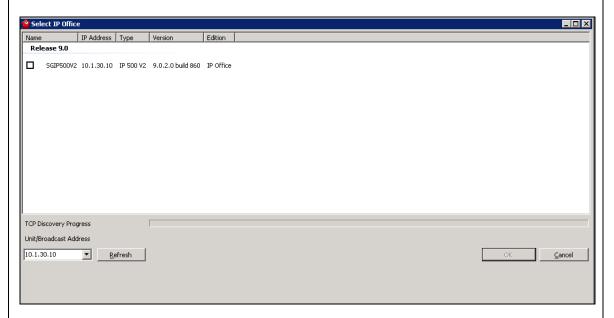
It is expected that the installer is familiar with configuring users, hunt groups, short codes, etc. on Avaya IP Office as the focus of these Application Notes is on the configuration of the TAPI interface only. For all other provisioning information, such as software installation, installation of optional components, basic configuration of Avaya IP Office, etc., refer to the Avaya IP Office product documentation in reference [1] of **Section 9**.

#### 5.1. Verify IP Office License

**Description** 

Step

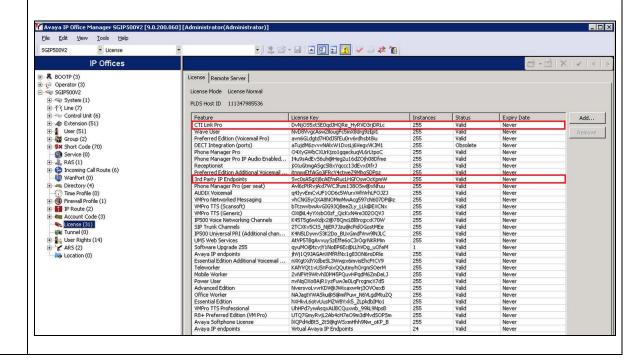
From a PC running the Avaya IP Office Manager application, select **Start** → **All Programs** → **IP Office** → **Manager** to launch the Manager application. Select the proper IP Office system, and log in with the appropriate credentials.



Log into the Avaya IP Office Manager application by using the appropriate user name and password (not shown).

#### **Step** | **Description**

2. It is assumed that appropriate trunk and other basic licenses are acquired. The CTI Link Pro license is required for iCALL Server to connect to Avaya IP Office via TAPI. Scroll down the left pane and select **License**, to display the **CTI Link Pro** screen in the right pane. Verify that the license **Status** is "Valid". This license is required for iCALL Server to use third-party TAPI control mode on IP Office. Verify also the 3<sup>rd</sup> Party IP Endpoints license **Status** is also "Valid".



#### 5.2. Obtain LAN IP address

#### **Description** Step From the configuration tree in the left pane, select **System** to display the system being configured in the right pane. Select the LAN1 tab, followed by the LAN Settings sub-tab in the right pane. Make a note of the **IP Address**, which will be used later to configure iCALL Server. Note that IP Office can support SIP on the LAN1 and/or LAN2 interfaces, and the compliance testing used the LAN1 interface. Mayaa IP Office Manager 5GIP500V2 [9.0.200.860] [Administrator(Administrator)] File Edit View Tools Help ▼ SGIP500V2 SGIP500V2 ▼ System IP Offices SGIP500V2 ⊕ ■ BOOTP (3) System LAN1 LAN2 DNS Voicemail Telephony Directory Services System Events 🛨 🥳 Operator (3) LAN Settings | VoIP | Network Topology | ⊟ 🤜 SGIP500V2 + System (1) IP Address 10 30 10 ± - ₹ Line (7) ⊕ Control Unit (6) 255 - 255 - 255 IP Mask 0 ± & Extension (51) 0 0 0 + 4 User (51) Primary Trans. IP Address 🛨 🎇 Group (2) None RIP Mode -⊕ 9x Short Code (70) Service (0) Enable NAT ★ Incoming Call Route (6) Number Of DHCP IP Addresses 1 WanPort (0) DHCP Mode a Directory (4) C Server C Client C Dialin @ Disabled Advanced Time Profile (0) + (1) Firewall Profile (1) IP Route (2)

#### 5.3. Configure Call Listen short code

#### **Description** Step From the configuration tree in the left pane, select **Short Code** and right click to select New. Enter the following for Call Listen feature to be used for recording by SIP line later. \*96\*N# Code: **Feature**: Call Listen **Telephone Number:** N Maya IP Office Manager SGIP500V2 [9.0.200.860] [Administrator(Administrator)] · [ 2 🗃 · 🖫 | 🖪 🖭 🖫 🔼 🗸 🛎 ঽ 🔞 ▼ \*96\*N# SGIP500V2 ▼ Short Code \*96\*N#: Call Listen IP Offices ▲ Short Code ± ← ← Line (7) ± ← Control Unit (6) Code \*96\*N# Extension (51) User (51) Group (2) Call Listen ₹ Feature Telephone Number N - 300 Listen In Group - 37 400 Main Line Group ID ₹ 9x Short Code (69) • Locale --**9x** \*00 --**9x** \*01 Force Account Code --**9x** \*02 --**9x** \*03

#### 5.4. Administer SIP Registrar

#### **Description** Step Select the VoIP sub-tab. Make certain that SIP Registrar Enable is checked as shown below. Enter a valid **Domain Name** for SIP endpoints to use for registration with IP Office. In the compliance testing, the **Domain Name** was left blank, so the LAN IP address was used for registration. Mayaya IP Office Manager SGIP500V2 [9.0.200.860] [Administrator(Administrator)] <u>File Edit View Tools Help</u> ▼ SGIP500V2 · 🚨 🖻 · 🖟 🖪 🖪 🔝 🚺 🗸 🍮 ⇄ 🔞 SGIP500V2 ▼ System SGIP500V2 IP Offices System LAN1 LAN2 DNS | Voicemail Telephony Directory Services | System Events | SMTP | SMDR | Twinning | VCM | CCR | Cor 🛨 💯 Operator (3) LAN Settings VoIP Network Topology □ SGIP500V2 ⊕ System (1) ⊕ ∱{ Line (7) H323 Gatekeeper Enable ☐ Auto-create User Control Unit (6) Auto-create Extn H323 Remote Extn Enable Extension (51) 🛨 🥻 User (51) ⊕ 🥻 Group (2) SIP Trunks Enable ⊕ 9x Short Code (70) SIP Registrar Enable Service (0) RAS (1) Auto-create Extn/User SIP Remote Extn Enable (6) Incoming Call Route Domain Name WanPort (0) Directory (4) Time Profile (0) **V** UDP UDP Port 5060 ÷ Remote UDP Port 5060 Firewall Profile (1) **▼** TCP TCP Port 5060 ÷ Remote TCP Port 5060 Layer 4 Protocol ÷ ☐ TLS TLS Port 5061 Remote TLS Port 5061 I A Account Code (3) License (31) 10 ÷ Challenge Expiry Time (secs) Tunnel (0)

#### 5.5. Administer SIP extensions for IVR/Recording

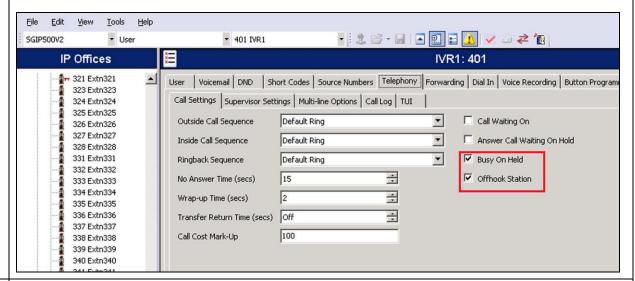
#### **Description** Step From the configuration tree in the left pane, right-click on **Extension** and select **New SIP Extension** from the pop-up list to add a new SIP extension. Enter the desired digits for Base Extension, and check Force Authorization, as shown below. In this case, "401" for IVR line. Repeat for extensions 402 for IVR line and 411 for recording line. Mayaya IP Office Manager SGIP500Y2 [9.0.200.860] [Administrator(Administrator)] <u>File Edit View Tools Help</u> ▼ 🚨 🖹 ▼ 📓 🖪 💽 🔝 🚺 🗸 🍜 🏖 📆 SGIP500V2 ▼ Extension ▼ 8007 401 SIP Extension: 8007 401 IP Offices **4** 55 337 Extn VoIP T38 Fax **56 338** 8007 Extension Id **801 339 802 340** 401 Base Extension **803 341 804 342** Caller Display Type **805 343** Reset Volume After Calls **806 344 807 345 808 346** Unknown SIP device Device Type **4** 809 347 **4** 810 348 Location Automatic -**4** 811 349 **4** 812 350 0 Module **4** 813 351 0 Port **4** 814 352 **4** 815 353 굣 Force Authorization **4** 816 354 **%** 8007 401 **%** 8009 402

#### 5.6. Administer SIP users for IVR/Recording

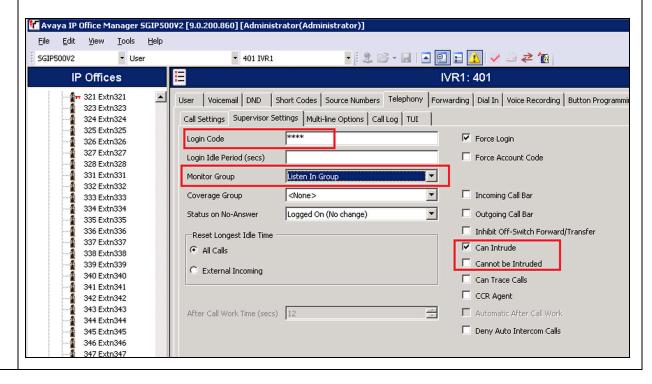
#### Step **Description** iCALL Server registers with the SIP User which is used to queue calls redirected from 1. incoming call hunt group by TAPI control. From the configuration tree in the left pane, rightclick on User and select New from the pop-up list (not shown). Enter desired values for Name and Full Name. For Extension, enter the first Base Extension from Section 5.5. Enter desired Password and Confirm Password. Depending on country, for the Locale, China (Mandarin) is selected for this Compliance Testing. Repeat for extensions 402 for IVR line and 411 for recording line. Maya IP Office Manager SGIP500V2 [9.0.200.860] [Administrator(Administrator)] File Edit View Tools Help ▼ 401 IVR1 📲 🏖 📂 + 🔚 🖪 🖭 🔛 🔼 🗸 🍜 ⇄ 🔞 SGIP500V2 User **IP Offices** IVR1: 401 333 Extn333 User | Voicemail | DND | Short Codes | Source Numbers | Telephony | Forwarding | Dial In | Voice Recording | Button Progra 334 Extn334 335 Extn335 Name

#### **Step** | **Description**

2. Select the **Telephony** tab; followed by the **Call Settings** sub-tab. Check **Busy On Held** and **Offhook Station**, as shown below. Repeat for extensions 402 for IVR line and 411 for recording line.

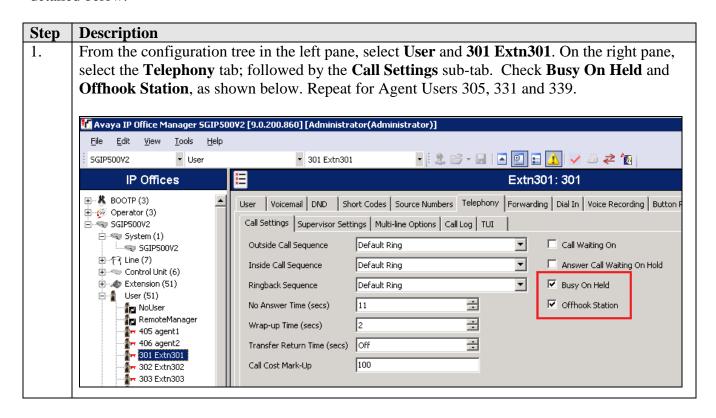


3. Select the **Supervisor Settings** sub-tab. Check the **Can Intrude** field and make sure the **Cannot be Intruded** is not checked, as shown below. Specify the **Login Code** field, which will be used by iCALL Server to log in the SIP User. This login code should be the same as the password set in **Step 1** of this section. Also specify the **Monitor Group** as Listen In Group created in **Section 5.7** for Call Listen to work. Repeat for extensions 402 for IVR line and 411 for recording line.



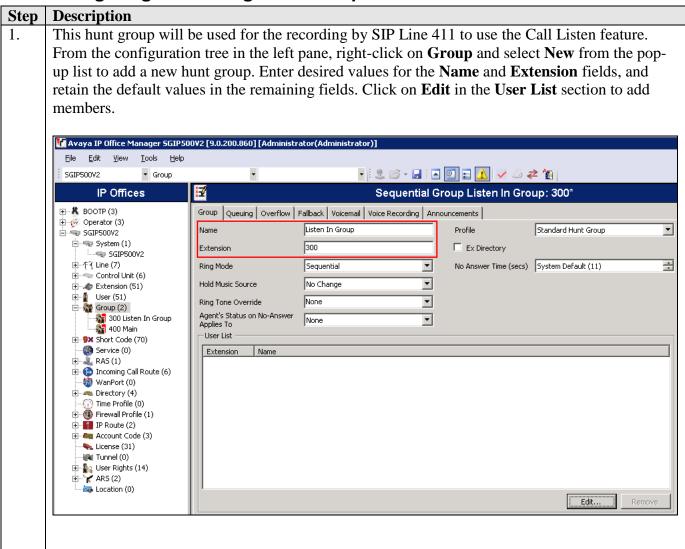
#### 5.7. Administer Agent Users

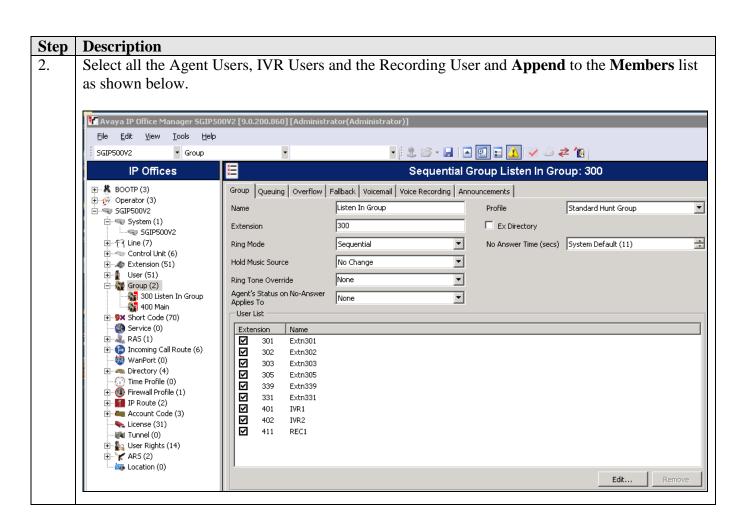
This section assumes agent extensions are already setup. The agent users are configured as detailed below.



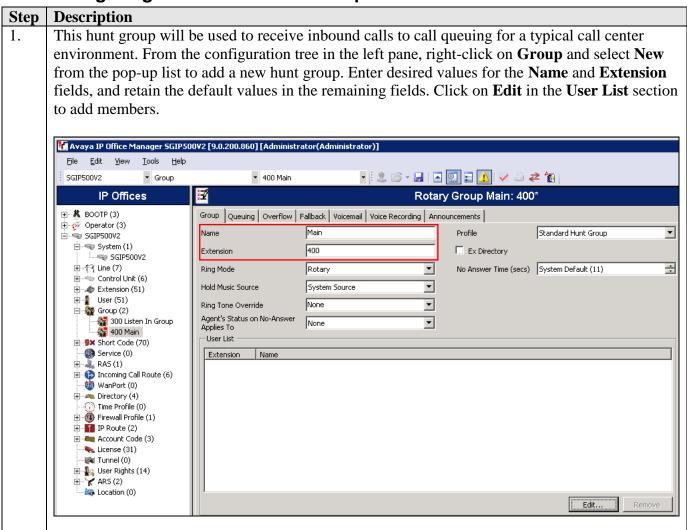
#### **Description** Step Select the Supervisor Settings sub-tab. Check the Can Intrude field and make sure the 2. Cannot be Intruded is not checked, as shown below. Also specify the Monitor Group as Listen In Group created in Section 5.7 for Call Listen to work. Repeat for Agent Users 305, 331 and 339. 🚹 Avaya IP Office Manager SGIP500V2 [9.0.200.860] [Administrator(Administrator)] <u>V</u>iew <u>T</u>ools <u>H</u>elp <u>File</u> <u>E</u>dit SGTP500V2 ▼ User ▼ 301 Extn301 IP Offices Extn301: 301 ⊕ ■ ■ BOOTP (3) User Voicemail DND Short Codes Source Numbers Telephony Forwarding Dial In Voice Recording Button Progra 🛨 🌠 Operator (3) Call Settings | Supervisor Settings | Multi-line Options | Call Log | TUI | □ SGIP500V2 Force Login SGIP500V2 ± 1 Line (7) Force Account Code Login Idle Period (secs) ⊕ - ⇔ Control Unit (6) ± & Extension (51) ₹ Monitor Group Listen In Group 🖃 🥻 User (51) ◂ ☐ Incoming Call Bar Coverage Group <None> ╆ NoUser r RemoteManager r 405 agent1 Status on No-Answer Logged On (No change) Outgoing Call Bar ☐ Inhibit Off-Switch Forward/Transfer **≨**₩ 406 agent2 Reset Longest Idle Time 🛺 301 Extn301 🔽 Can Intrude 👶 All Calls - 302 Extn302 Cannot be Intruded 🚂 303 Extn303 C External Incoming 2 304 Extn304 Can Trace Calls - 305 Extn305 CCR Agent 311 Extn311 ♣ 312 Extn312 After Call Work Time (secs) 12 Automatic After Call Work A. 5-313 Extn313 Deny Auto Intercom Calls 🚰 314 Extn314 - 315 Extn315

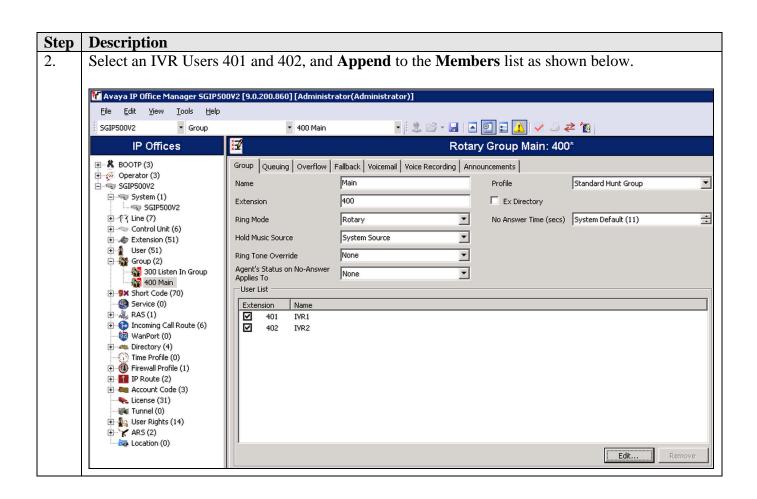
#### 5.8. Configuring Monitoring Hunt Group



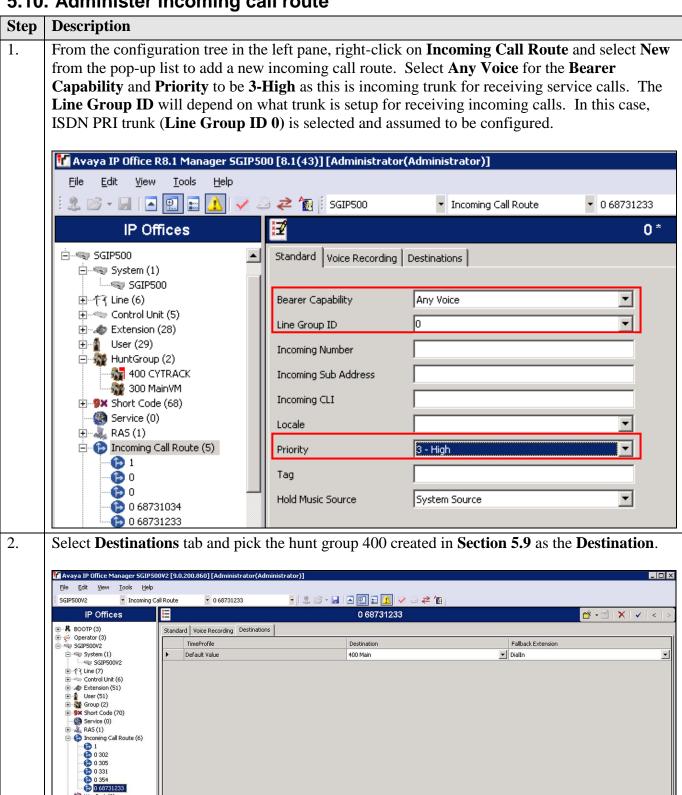


#### 5.9. Configuring Call Center Hunt Group





#### 5.10. Administer incoming call route



#### 6. Configure iCALL Solution

This section provides the procedures for configuring the iCALL solution. The procedures include the following areas:

- Install and configure Avaya TAPI driver
- Configure iCALL Server
- Configure Agent OCX on the PCs

Please note that not all the configured details are mentioned. Only those essential for setup and interface with Avaya are stated. For all other provisioning information, such as software installation, installation of optional components, basic configuration of Avaya IP Office, etc., refer to the Avaya IP Office product documentation in reference [1] of **Section 9.** 

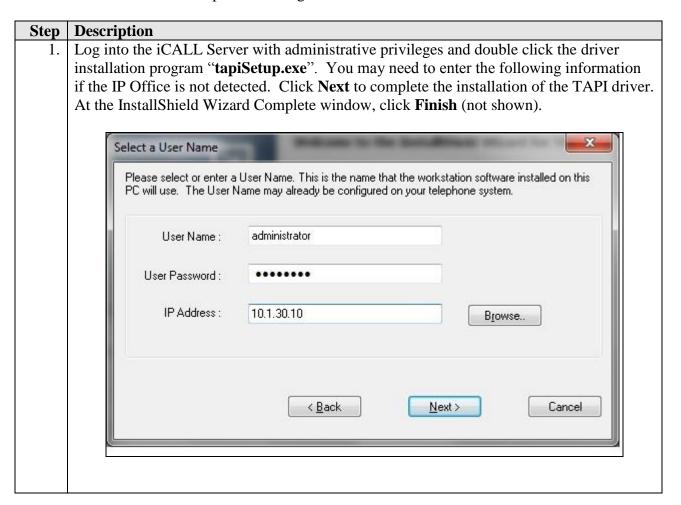
#### 6.1. Install and configure Avaya TAPI Driver

This section provides the procedures for configuring the Avaya TAPI Driver on the iCALL Server. The procedures include the following areas:

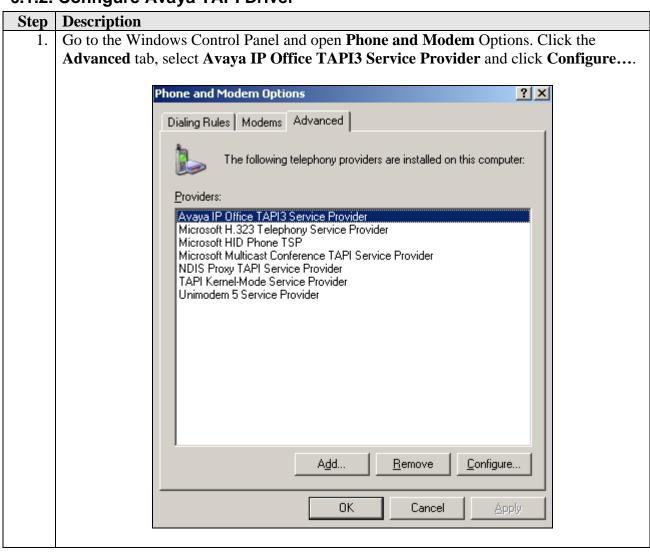
- Install Avaya TAPI driver
- Configure Avaya TAPI driver

#### 6.1.1. Install Avaya TAPI Driver

Avaya TAPI driver can be obtained from the IP Office User CD which is also available on Avaya Support portal at <a href="http://support.avaya.com/">http://support.avaya.com/</a>. The latest driver is used for installation on the iCALL Server in this compliance testing.

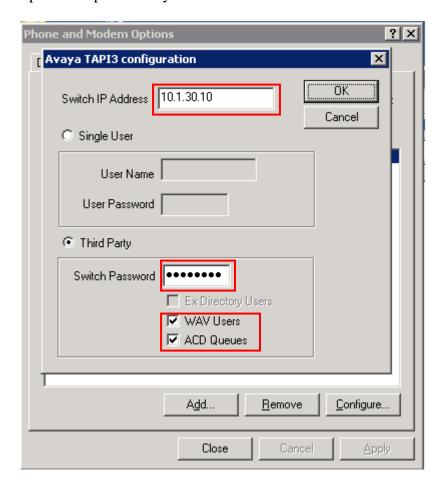


#### 6.1.2. Configure Avaya TAPI Driver



#### **Step** | **Description**

2. In the Avaya TAPI3 configuration window that is displayed, set **Switch IP Address** to the IP address of Avaya IP Office, select **Third Party** and set **Switch Password** to the IP Office System password provided by the administrator. Click **OK**.



3. In the Phone and Modem Options window, click **OK**. Reboot the server for the new changes to take effect.

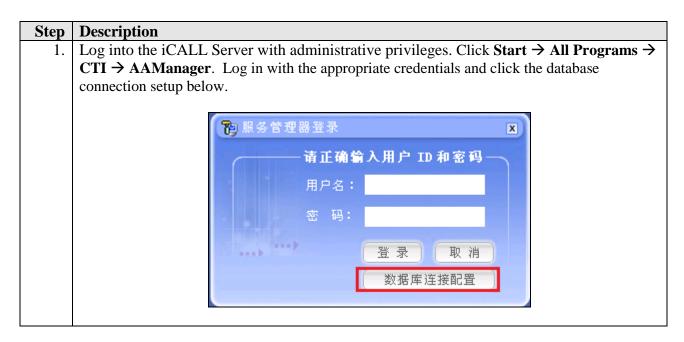
#### 6.2. Configure iCALL Server

The installation of the components on the iCALL Server and the Database Server is assumed to be completed and activated with the appropriate license. The complete steps required to configure iCALL Server for service is beyond the scope of this document. Refer to NSE Telecom for details.

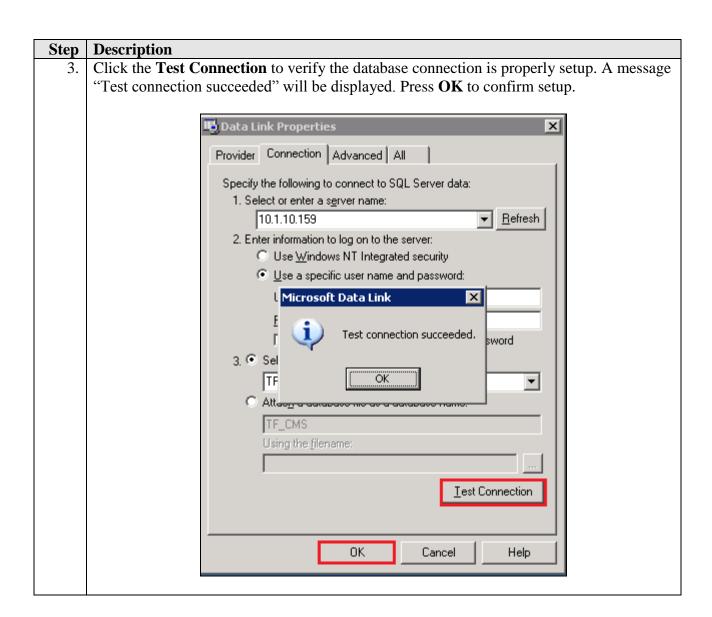
This section provides the procedures for configuring iCALL Server. The procedures include the following areas:

- Database Connection configuration
- IVR configuration
- CTI Core Service configuration
- IVR Channel configuration
- Recording Channel configuration
- Restart IVR and CTI service
- Agent configuration
- Recording System configuration

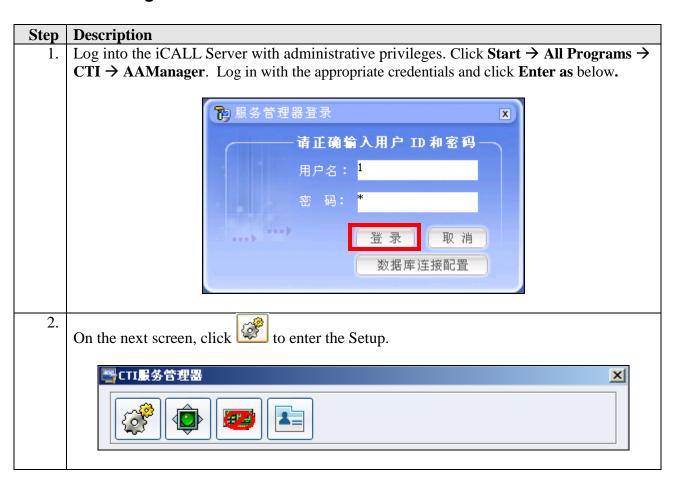
#### 6.2.1. Database Connection configuration

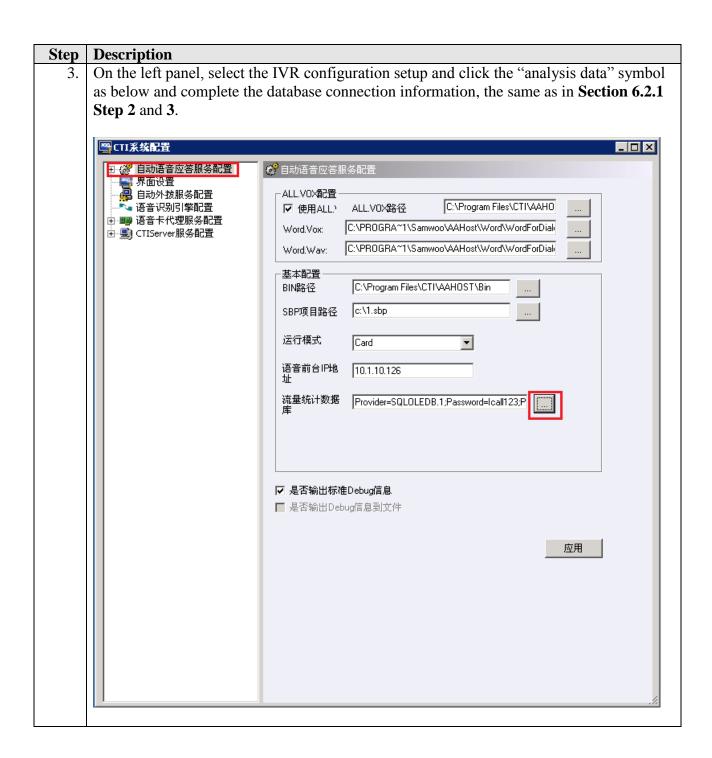


# **Description** Step Enter the database server IP address in the Select or enter a server name field and select Use a specific user name and password. Enter the User name sa and Password. Leave the rest as default. 🖶 Data Link Properties Provider Connection Advanced All Specify the following to connect to SQL Server data: Belect or enter a server name: 10.1.10.159 <u>R</u>efresh 2. Enter information to log on to the server: O Use Windows NT Integrated security Use a specific user name and password: User <u>n</u>ame: sa Password: \*\*\*\*\*\*\* ☐ Blank password ✓ Allow saving password 3, 💽 Select the <u>d</u>atabase on the server: TF\_CMS • Attach a database file as a database name: TF\_CMS Using the filename: Test Connection OΚ Cancel Help



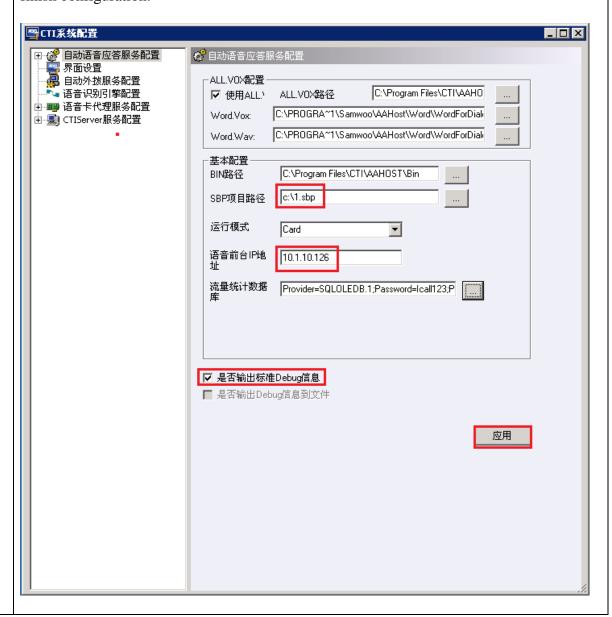
#### 6.2.2. IVR configuration





#### Step | Description

4. Enter the IP address of the iCALL server for the IVR service. In this Compliance Testing, the iCALL server performs the IVR function as well. The script file for handling the call flow is located at c:\1.sbp as set as below. Detail on the design of the script will not be described here. Check the box at the bottom for basic debug log output. Click **Apply** to finish configuration.



#### 6.2.3. CTI Core Service configuration

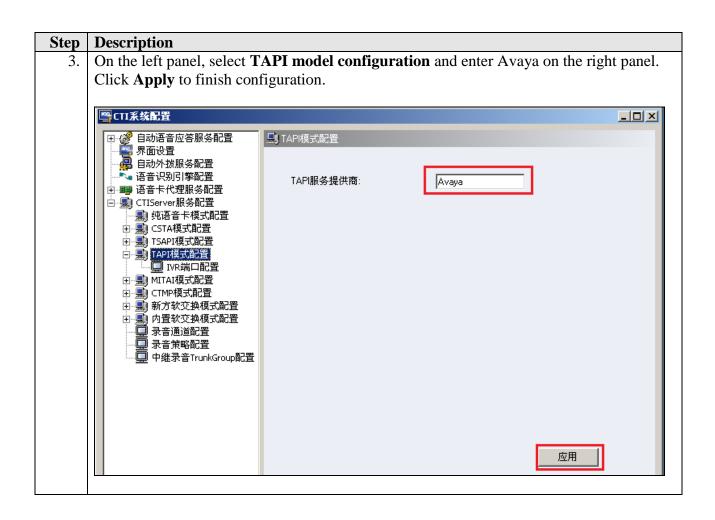
Step **Description** Repeat Step 1 and 2 in **Section 6.2.2** and select **CTIServer** on the left panel below. Click on the "analysis data" symbol below and complete the database connection information the same as in **Section 6.2.1 Step 2** and **3.** CTI系统配置 🧬 自动语音应答服务配置 ■CTIServer服务配置 🥌 界面设置 🥵 自动外拨服务配置 运行模式 TAPI模式 🥄 语音识别引擎配置 ☑ 坐席签入是否检测密码 🛨 🎟 语音卡代理服务配置 □ 是否预录音 🖮 💹 CTIServer服务配置 ☑ 是否采用根据年月日分级的录音目录 □ 是否分机录音 🔜 纯语音卡模式配置 中继录音方式 由·鳳 CSTA模式配置 录音文件扩展名: wav □ 是否主叫屏蔽 由 🗐 TSAPI模式配置 □ 开启座席桌面监控功能 ☑ 使用独立录音服务器 □ 🚇 TAPI模式配置 ☑ 是否播放工号 自动WrapEnd时长(秒) 🖳 IVR端口配置 🕀 💂 MITAI模式配置 本机IP多IP时指 10.1.10.126 🗉 🗐 CTMP模式配置 10.1.10.126 AAHost IP: 由 ■ 新方软交换模式配置 田 中 内置软交换模式配置 录音通道配置 录音策略配置 中继录音TrunkGroup 10.1.10.126 CardProcessor IP: Bin主目 中继录音TrunkGroup配置 C:\Program Files\CTI\CTIServer\Bin C:\Program Files\CTI\CTIServer\Bin\Tapi.abs 呼叫管理数据库配置 呼叫管理数据库连接1 Provider=SQLOLEDB.1;Password=Icall123;Persist Sec 使用连接1 外拨号码前缀 ☑ 是否输出标准Debug信息 应用

#### **Step** | **Description**

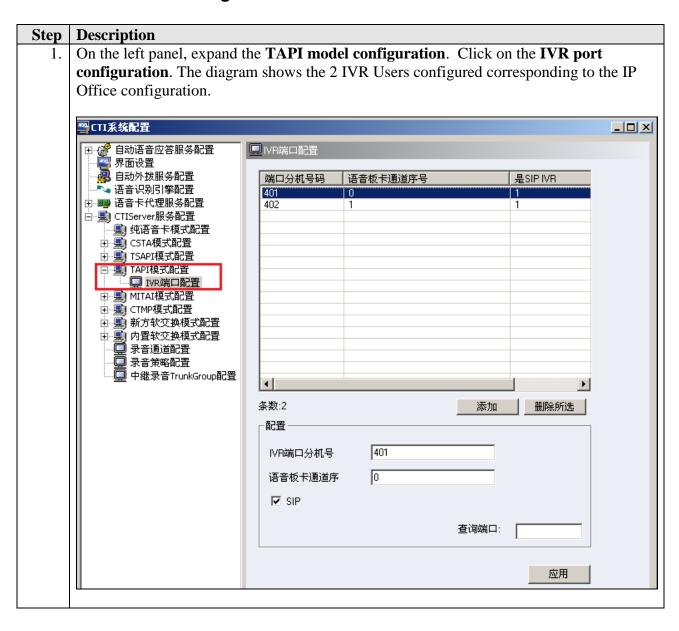
- 2. On the same screen, configure the local IP address for the following:
  - Local IP: IP address of the CTI Server
  - **AAHost IP**: IP address of the AA Host.
  - CardProcessor IP: IP address of IVR Server

Select also **TAPI** as the type of connection to PBX from the drop down menu. Check the box at the bottom for basic debug log output. Click **Apply** to finish configuration.

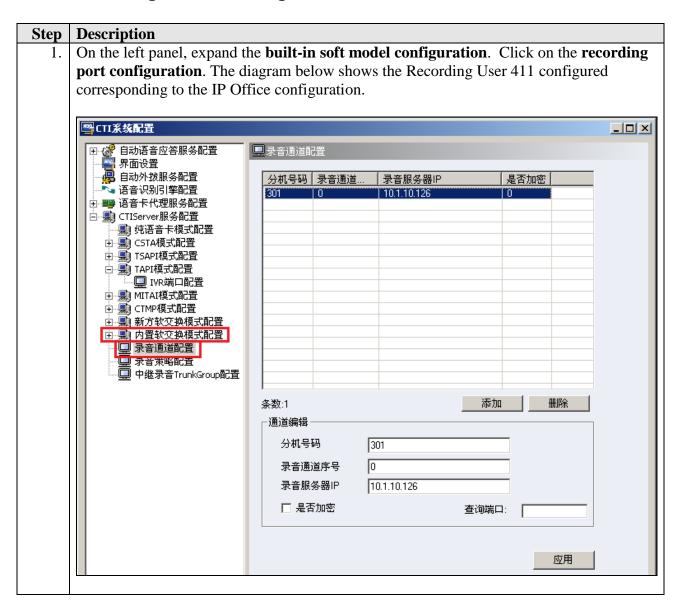




#### 6.2.4. IVR Channel configuration



#### 6.2.5. Recording Channel configuration



#### 6.2.6. Restart IVR and CTI service

#### Step | Description

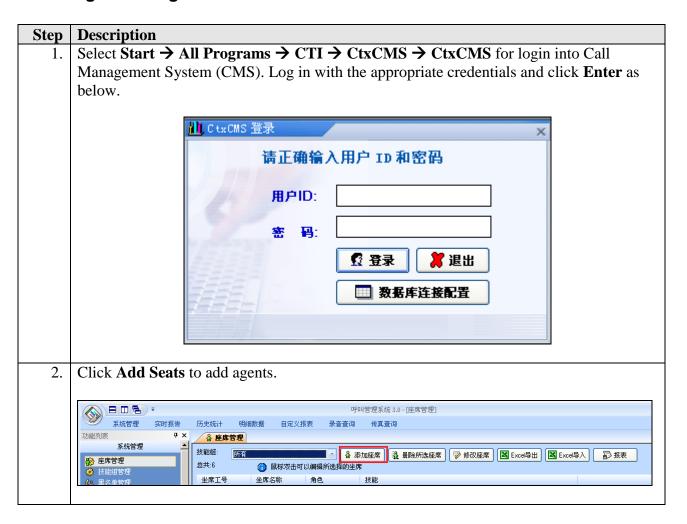
1. Log into the iCALL Server with administrative privileges. Click **Start** → **All Programs** → **CTI** → **AAManager**. Log in with the appropriate credentials and click **Enter** as below.



2. After the configuration in the components of CTI and IVR, the services has to be restarted. Ensure that the automatic restart is ticked for IVR and CTI service. Restart these services by clicking the **STOP** button. These services will automatically be stopped and restarted.



#### 6.2.7. Agent configuration



#### Step | Description

3. Enter the following information:

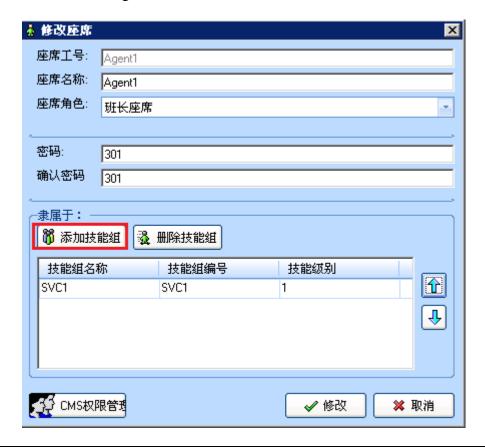
User ID: Agent1 User Name: Agent1

• **User function**: Supervisor

• **Password**: 301

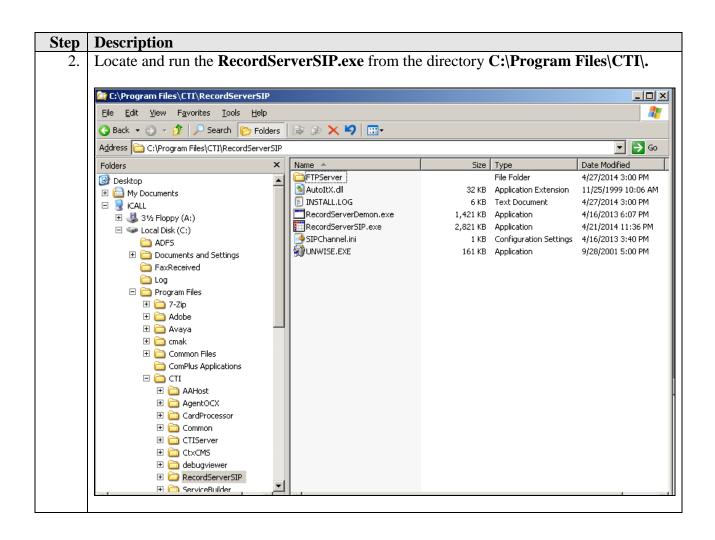
• Confirm Password: 301

Assuming Skills are already setup, click on **Add Skills** (not shown) below to enter the appropriate skills for the agent.



#### 6.2.8. Recording System configuration

## Step **Description** Locate the **SIPChannel.ini** file in the C drive root. Edit the parameters for the Recording SIP Users Login and Password configured on IP Office as below. C:\ Elle Edit View. Favorites Tools Help Search Call Back → Ca Folders 📕 SIPChannel.ini - Notepad File Edit Format View Help C [SIPChannels] SIPLogins=411 SIPPassword=1234 SIPProxyIP=10.1.30.10



#### Step **Description** Verify that the SIP User 411 is regisered under the Status column. Ensure that Call Listen **Short Code** \*96\*N# is configured as in **Section 5.3**. Click the "analysis data" symbol below and complete the database connection information the same as in **Section 6.2.1** Step 2 and Step 3. RecordServerSIP X 通道状态 通道号 对应座席 开始时间 录音文件名称 录音次数 411 SIP注册成功 配置参数 录音文件存放路径: C:\RecordWav\ 总容量: 99.99 GB ■ 使用: 10.12 GB 数据库连接字串: Provider=SQLOLEDB.1;Password=Icall123;Persist Security Info=1 空闲: 89.87 GB 录音文件保存天数: 〈〈保存更改 录音服务器状态 日志配置 己连接 □ 自动备份到远程服务器 □ 输出SIP调试信息 正在录音通道数目:0 监听码: \*96\*N#

远程备份配置

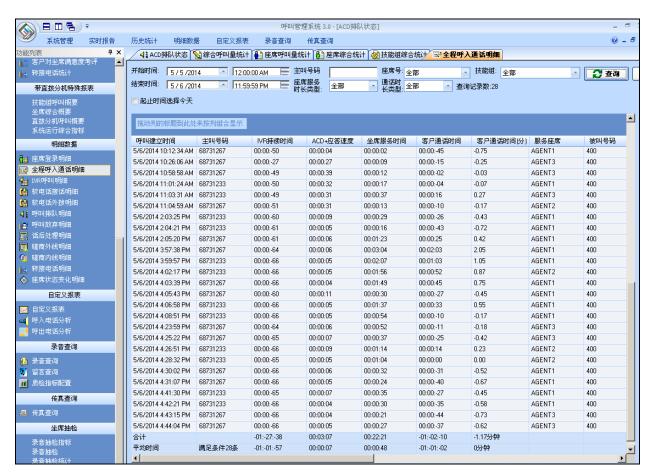
#### 6.3. Configure Agent OCX on the PCs

#### **Step Description** Log into the PC running Agent OCX with administrative privileges. Click Start → All **Programs** → CTI → AgentOCX → Project1 to configure Agent OCX. Enter the IP address of the iCALL Server for CTIServerA IP and CTIServerB IP and the Station number for the Agent as 301. Click **Confirm** to apply configuration. Repeat this for the other agents. The available Station numbers are 305 (IP), 331 (Analog) and 339 (Digital). 🥸 座席 配置 登录 🤵 🚁 📶 保持 转接 外拨 磋商 取消磋商 自动 放音 传真 就绪 会议 监听 强插 拦截 注册表配置 × 辅助选项 AgentRun状态 C:\Program Files\CTI\AgentOCX\Bin\AgentF □ 监听是否启用功能码 脚本路径 监听功能码: \*99\*N# 执行脚本路径: C:\Program Files\CTI\AgentOCX\bin □ 强插是否启用功能码 系統脚本路径: C:\Program Files\CTI\AgentOCX\Bin\State.) 强插功能码: \*99\*N# 定位CTI方式: 数据库定位 来电图片提示 ▼ ▼ 来电图片提示 提示图片: 0 ▼ 持续(秒): 3 话后/小休超时提示: CTIServerA IP: 10.1.10.126 □ 切换回空闲 ACW超时提示(秒,0-->Disable): CTIServerB IP: 10.1.10.126 AUX超时提示(秒,0-->Disable): □ 重复提示 ☑ 由座席指定座席对应的通道设备名称 座席 ☑ 座席常摘 SIP座席配置 SIP终端配置 □ 本座席使用的是SIP终端 确定 取消 版本:20130424 □ 签出强制结束进程 ☑ 释放强制结束进程

# 7. Verification Steps

The following steps may be used to verify the configuration.

- Verify the CTI Link Pro license is enabled on Avaya IP Office (see **Section 5.1**).
- Log in and make the agent available. Place an incoming call to the inbound queue. Verify that the agent's phone rings and the agent is able to answer the call with Agent OCX softphone.
- Verify also the call is recorded for inbound call.
- Log in with the agent in AUX mode. Verify that an outbound call is placed.
- Verify also the call is recorded for outbound call.
- Using the CMS, verify that Call Records were captured after call completion.



#### 8. Conclusion

These Application Notes describe the compliance-tested configuration used to validate Avaya IP Office 9.0 with iCALL Solution. All test cases were completed successfully with a note indicated in **Section 2.2** test results.

# 9. Additional References

The following documents are available at <a href="http://support.avaya.com">http://support.avaya.com</a>.

[1] Avaya IP Office Knowledgebase CD, Release 9.0, Build: 01, 24th Sept 2013

Documents available from NSE Telecom can be obtained upon request.

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