



Application Notes for Mercom Audiolog Recording Server with Avaya Communication Manager and Avaya Computer Telephony - Issue 1.0

Abstract

MERCOM Audiolog Recording Server monitors real-time call events at selected extensions and skill sets, analyzes the event data, makes recording control decisions, and collects call-specific data for a call center. MERCOM Audiolog Recording Server integrated with the Avaya Computer Telephony Server to provide highly accurate and flexible automatic call recording control. Information in these Application Notes has been obtained through compliance testing and additional technical discussions. Testing was conducted via the *DeveloperConnection* Program at the Avaya Solution and Interoperability Test Lab.

1. Introduction

MERCOM Audiolog is an advanced call recording system that is designed for use as a stand-alone recorder/playback unit and as a specialized resource server within a networked environment.

Audiolog performs the following recording functions:

- Recording audio via direct connection (stations or trunks), Service Observe, or VoIP
- Monitoring audio channels during recording
- Storing/Archiving recordings for playback
- Creation/maintenance of Catalog Database of recordings
- Search, Selection, and Playback of selected recordings
- Prevention of unauthorized access, modification, monitoring and playback

Audiolog software utilizes several co-resident modules to perform all computer telephony integration (CTI), recording, Database, and playback functions:

- Recorder Module provides telephony interface, signaling, compression, and recording functions.
- CTI Link Module provides the direct interface to the Avaya Computer Telephony Server for recording control and call-associated data collection.
- Call Manager Module provides automated update of Audiolog's onboard SQL Catalog database as each call is recorded.
- Player Module provides user-friendly GUI for call search, selection, and playback

MERCOM Audiolog Recording Server can be easily integrated with the Avaya Computer Telephony Server to provide highly accurate and flexible automatic call recording control. MERCOM Audiolog Recording Server monitors real-time call events at selected extensions and skill sets, analyzes the event data, makes recording control decisions, and collects call-specific data for ease of future recording retrieval.

Test configuration of MERCOM Audiolog Recording Server utilized Avaya Computer Telephony Server to provide events associated with each call to be recorded. Call related information, provided through the CTI link, is stored in MERCOM's SQL Catalog Database. Recorded voice is stored on the hard drive(s) in the MERCOM server. By using standard Mercom search and replay applications in conjunction with the Catalog database call records, the voice recording is played back at the Mercom server or at networked user workstation(s).

2. Test Configuration

Figure 1 illustrated a configuration used during the compliance test process.

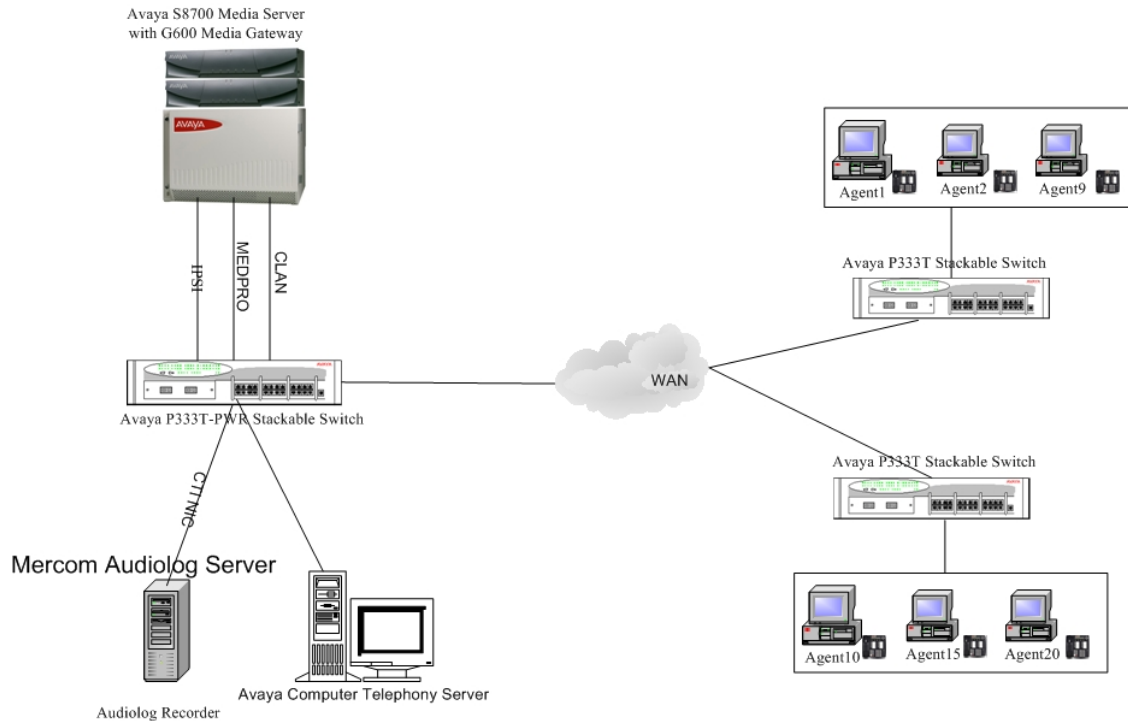


Figure 1: Avaya DeveloperConnection Compliance Test Configuration

3. Equipment and Software Validated

The following equipment and software were used for the tested configuration:

Equipment	Software
Avaya S8700 Media Server with G600 Media Gateway	Avaya Communication Manager 2.1
Avaya Computer Telephony Server	Release 1.3
MERCOM Audiolog Recording Server	v3.20ML RTP
Avaya TN464F DS1 INTFC	V10

4. Configure the Avaya Communication Manager

4.1. Verify Communication Manager Customer Option

The following step verifies customer options on the Avaya Communication Manager.

Step	Description
1.	<p>From the SAT terminal, type “display system-parameters customer-options” and go to page 3 to verify the options below are set to “y”. Contact Avaya if these options are not set to “y”.</p> <p>Verify the following customer options are set to “y”:</p> <ul style="list-style-type: none">• Computer Telephony Adjunct Links• Co-Res DEFINITY LAN Gateway <div><pre>display system-parameters customer-options Page 3 of 11 OPTIONAL FEATURES Abbreviated Dialing Enhanced List? n Audible Message Waiting? n Access Security Gateway (ASG)? n Authorization Codes? n Analog Trunk Incoming Call ID? n Backup Cluster Automatic Takeover? n A/D Grp/Sys List Dialing Start at 01? n CAS Branch? n Answer Supervision by Call Classifier? n CAS Main? n ARS? y Change COR by FAC? n ARS/AAR Partitioning? y Computer Telephony Adjunct Links? y ARS/AAR Dialing without FAC? n Co-Res DEFINITY LAN Gateway? y ASAI Link Core Capabilities? y Cvg Of Calls Redirected Off-net? n ASAI Link Plus Capabilities? y DCS (Basic)? y Async. Transfer Mode (ATM) PNC? n DCS Call Coverage? y Async. Transfer Mode (ATM) Trunking? n DCS with Rerouting? y ATM WAN Spare Processor? n ATMS? n Digital Loss Plan Modification? n Attendant Vectoring? n DS1 MSP? n DS1 Echo Cancellation? n (NOTE: You must logoff & login to effect the permission changes.)</pre></div>

4.2. Configure CTI Link on Avaya Communication Manager

The following steps configure the CTI link on Avaya Communication Manager.

Step	Description
1.	<p>From the SAT terminal, type “add cti #”, where # is the next available CTI link number. Enter an extension number in the extension field, enter ADJ-IP for Type and a name for this CTI Link.</p> <pre> add cti-link 6 Page 1 of 2 CTI LINK CTI Link: 6 Extension: 23999 Type: ADJ-IP COR: 1 Name: CT Server AIC LAB </pre>
2.	<p>Type “change node-names ip”. Enter the name of the Avaya Computer Telephony server and its IP Address.</p> <pre> change node-names ip Page 1 of 1 IP NODE NAMES Name IP Address Name IP Address CTserver 192.45 .20 .163 . . . clan 192.45 .100.66 . . . default 0 .0 .0 .0 . . . medpro 192.45 .100.69 . . . procr </pre>
3.	<p>Type “change ip-services”. Go to page 3. Enter the CTI link number created in step 4.2.1 for CTI Link, “y” for Enabled, enter Avaya Computer Telephony node name created in step 4.2.2 for Client Name, and enter 1 for Client Link.</p> <pre> change ip-services Page 3 of 3 DLG Administration CTI Link Enabled Client Name Client Link Client Status 6 y CTserver 1 in use </pre>

4.3. Configure DS1 Stations for Mercom Recorder

The following steps configure DS1 station used for Single Step Conference:

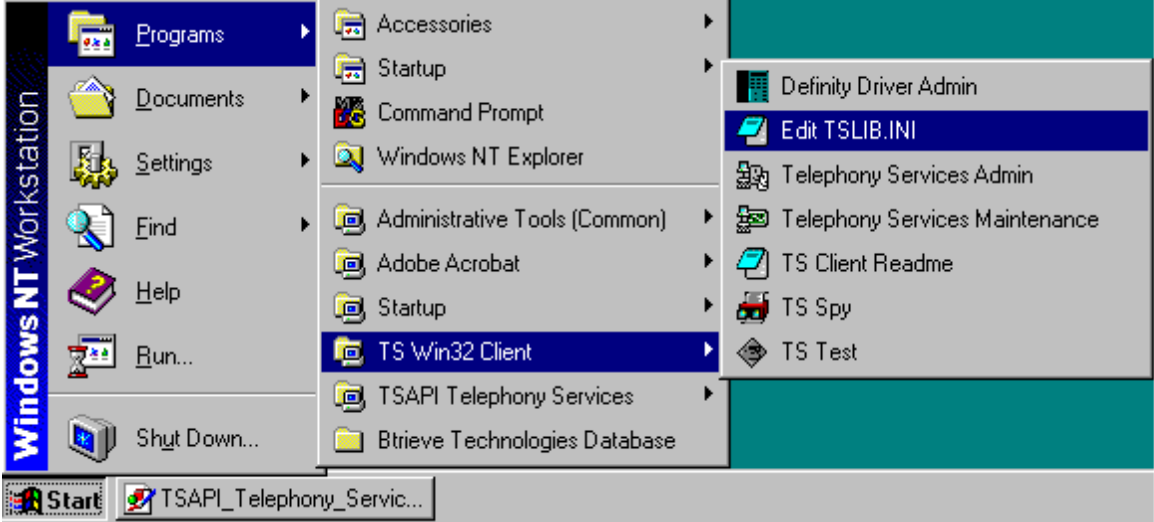
Step	Description
1.	<p>From the SAT terminal, type “change COR 1”. Set Can be Service Observed and Can Be A Service Observer to “y”.</p> <div><pre>change cor 1 Page 1 of 4 CLASS OF RESTRICTION COR Number: 1 COR Description: FRL: 0 APLT? y Can Be Service Observed? y Calling Party Restriction: none Can Be A Service Observer? y Called Party Restriction: none Partitioned Group Number: 1 Forced Entry of Account Codes? n Priority Queuing? n Direct Agent Calling? y Restriction Override: none Facility Access Trunk Test? n Restricted Call List? n Can Change Coverage? n Access to MCT? y Fully Restricted Service? n Group II Category For MFC: 7 Hear VDN of Origin Annc.? n Send ANI for MFE? n Add/Remove Agent Skills? n MF ANI Prefix: Automatic Charge Display? n Hear System Music on Hold? y PASTE (Display PBX Data on Phone)? n Can Be Picked Up By Directed Call Pickup? n Can Use Directed Call Pickup? n Group Controlled Restriction: inactive</pre></div>

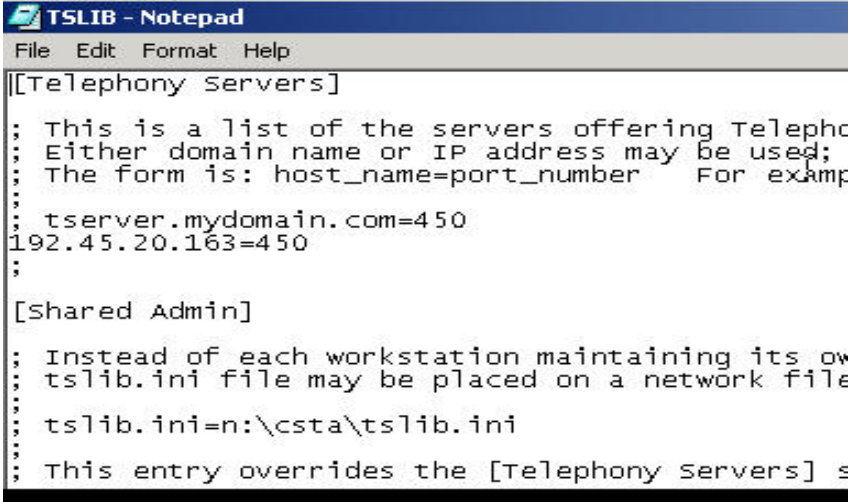
2.	<p>From the SAT terminal, type “add DS1 port #####”. Enter the name for this DS1 board, hdb3 for Line Coding, 2.048 for Bit Rate, CAS for Signaling Mode, pbx for Interconnect, mulaw for Interface Companding. Make sure that the jumper setting on the TN464 board is set to 32 channels.</p> <div data-bbox="321 436 1429 974"> <pre> change ds1 1b04 Page 1 of 1 DS1 CIRCUIT PACK Location: 01B04 Name: MERCOM Bit Rate: 2.048 Line Coding: hdb3 Signaling Mode: CAS Interconnect: pbx Country Protocol: 1 Interface Companding: mulaw CRC? n Idle Code: 11111111 Slip Detection? n Near-end CSU Type: other </pre> </div>
3.	<p>From the SAT terminal, type “add station #####”. Enter DS1DF for Type, enter the port number and name.</p> <div data-bbox="321 1079 1429 1440"> <pre> add station 27001 Page 1 of 3 STATION Extension: 27001 Lock Messages? n BCC: 0 Type: DS1FD Security Code: TN: 1 Port: 01B0401 Coverage Path 1: COR: 1 Name: MERCOM Coverage Path 2: COS: 1 Hunt-to Station: Tests? y STATION OPTIONS Loss Group: 4 Off Premises Station? y R Balance Network? n </pre> </div>

Step	Description
	<p>Go to page 2 of the station form, set Auto Answer to “all” and Adjunct Supervision to “y”. Repeat this step for the remaining 31 channels.</p> <div> <pre> add station 27001 Page 2 of 3 STATION FEATURE OPTIONS LWC Reception: spe LWC Activation? y Coverage Msg Retrieval? y LWC Log External Calls? n Auto Answer: all CDR Privacy? n Data Restriction? n Redirect Notification? y Call Waiting Indication? y Per Button Ring Control? n Att. Call Waiting Indication? y Distinctive Audible Alert? y Switchhook Flash? y Adjunct Supervision? y Ignore Rotary Digits? n H.320 Conversion? n Per Station CPN - Send Calling Number? Service Link Mode: as-needed Multimedia Mode: basic MWI Served User Type: AUDIX Name: Coverage After Forwarding? s Emergency Location Ext: 27001 </pre> </div>

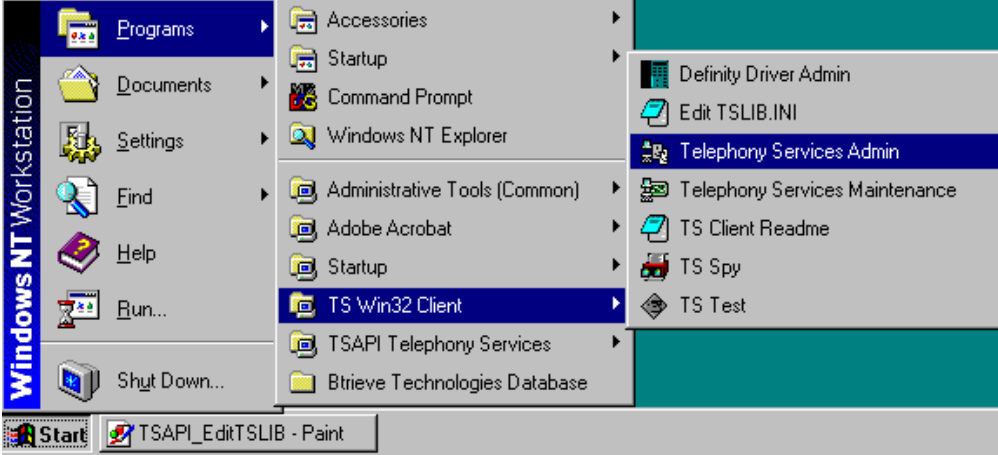
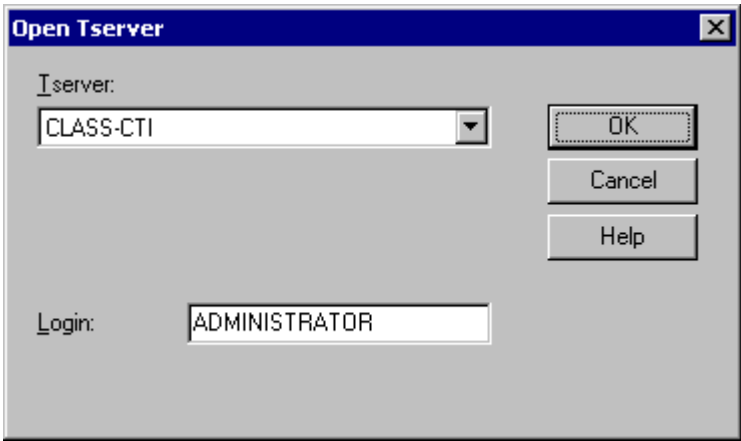
5. Configure the Avaya Computer Telephony Server

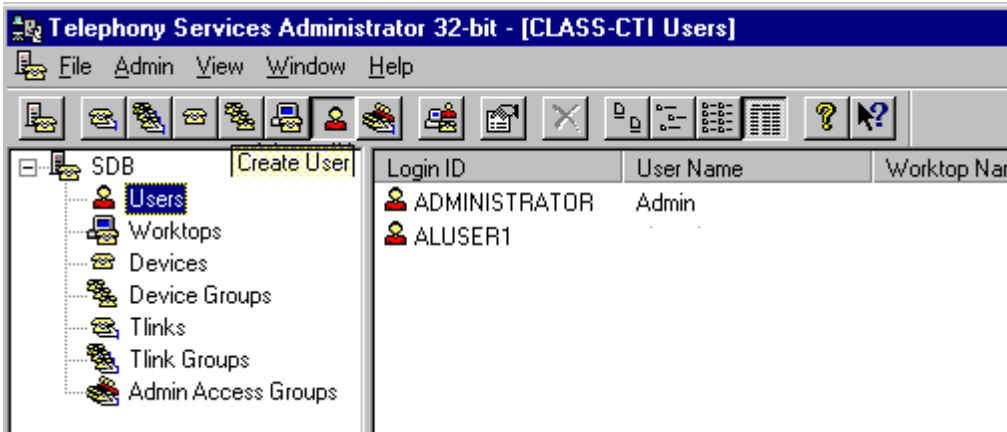
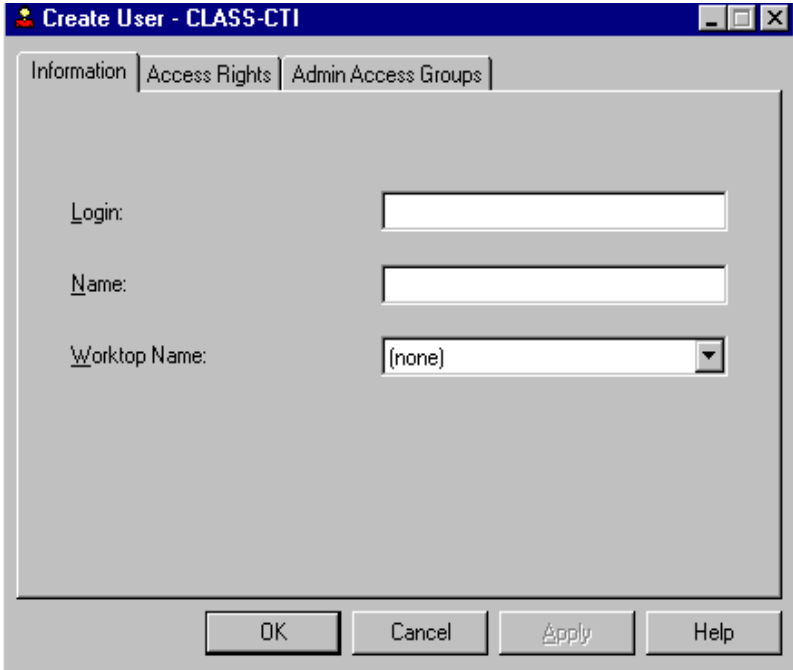
5.1. Modify the TSLIB.INI File

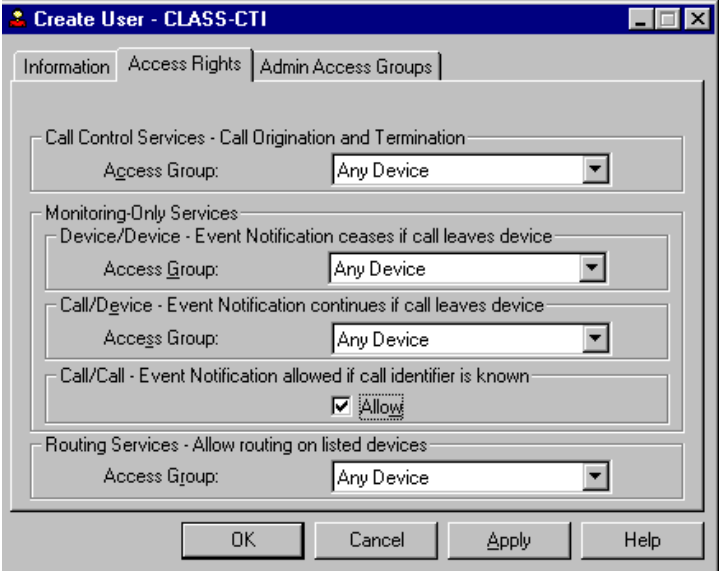
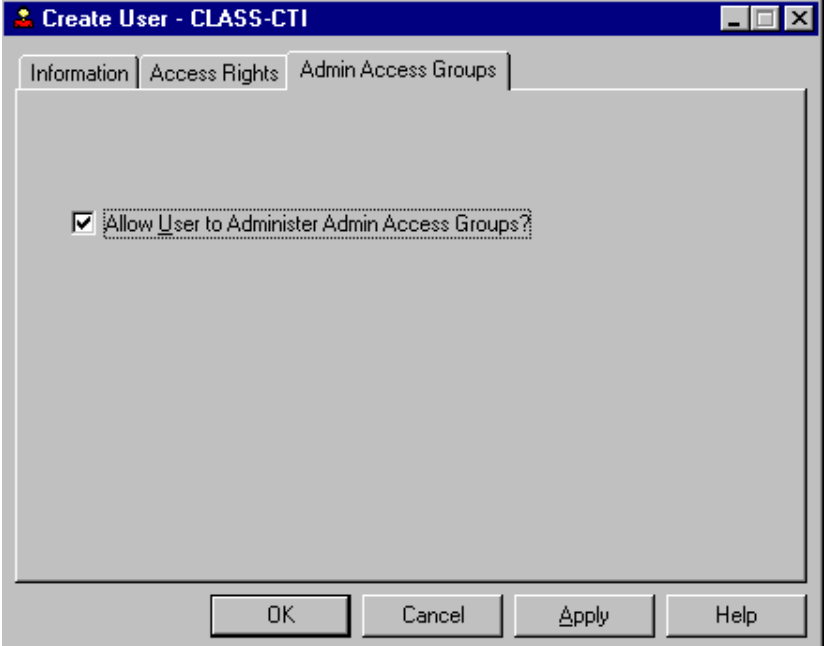
Step	Description
1.	<p>On the computer running Avaya Computer Telephony Server, open the TSLIB.INI file by going to Start → Programs → TS Win32 Client → Edit TSLIB.INI.</p>  <p>The screenshot shows the Windows NT Workstation Start menu. The 'Programs' menu item is selected, displaying a list of folders and applications. The 'TS Win32 Client' folder is highlighted, and its sub-menu is open, showing 'Edit TSLIB.INI' as the selected option. Other visible items include 'Accessories', 'Startup', 'Command Prompt', 'Windows NT Explorer', 'Administrative Tools (Common)', 'Adobe Acrobat', 'Startup', 'TSAPI Telephony Services', and 'Btrieve Technologies Database'. The taskbar at the bottom shows the 'Start' button and a running application named 'TSAPI_Telephony_Servic...'.</p>

Step	Description
2.	<p>Change the IP address shown in the [Telephony Servers] section of the TSLIB.ini file to match the IP address (or Computer Name) of the Avaya Computer Telephony Server to which the Audiolog server will connect as a client. Audiolog communicates with the Avaya Computer Telephony Server using port 450. The syntax for this line is IPAddress (or Computer Name)=450, for example 192.45.20.163=450 or CTserver=450.</p>  <pre> TSLIB - Notepad File Edit Format Help [Telephony Servers] ; This is a list of the servers offering Telephc ; Either domain name or IP address may be used; ; The form is: host_name=port_number For examp ; ; tserver.mydomain.com=450 192.45.20.163=450 ; [Shared Admin] ; Instead of each workstation maintaining its ow ; tslib.ini file may be placed on a network file ; ; tslib.ini=n:\csta\tslib.ini ; This entry overrides the [Telephony Servers] s </pre>
3.	Save and Exit the file.
4.	Copy the TSLIB.ini file to the C:\Winnt directory on the Audiolog.

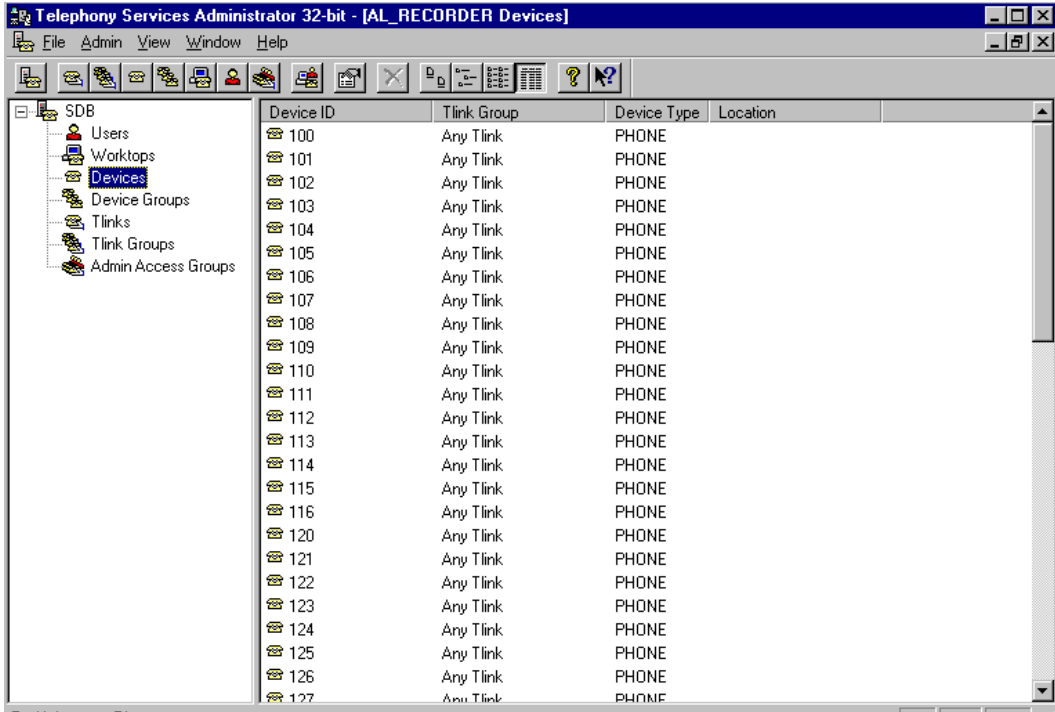
5.2. Telephony Services Administration

Step	Description
1.	<p>On the Avaya Computer Telephony Server, open the Telephony Services Admin by going to Start → Programs → TS Win32 Client → Telephony Services Admin.</p> 
2.	<p>Select the computer name of the Avaya Computer Telephony Server (TSAPI Server) from the Tserver drop-down list.</p>  <p>NOTE: In order to access Telephony Services, users must have a Windows NT/2000 login ID and password. In addition, they must have the “Log on as a Service” user right assigned to their account on the Windows NT/2000 machine that is running Telephony Services. Windows NT logins are administered through the Windows NT User Manager.</p>

Step	Description
3.	<p>Click the Create User button.</p> 
4.	On the Information tab, enter ALUSER1 in the Login field.
5.	<p>Enter ALUSER1 in the Name field. (ALUSER1 must also be added as an Administrator in the User Manager on the TSAPI Machine).</p> 
6.	On the Access Rights tab, select “Any Device” for all sections.

Step	Description
7.	<p>Check the Allow box under Call/Call section.</p>  <p>The screenshot shows the 'Create User - CLASS-CTI' dialog box with the 'Access Rights' tab selected. Under the 'Call Control Services - Call Origination and Termination' section, the 'Access Group' is set to 'Any Device'. Under the 'Monitoring-Only Services' section, the 'Device/Device - Event Notification ceases if call leaves device' and 'Call/Device - Event Notification continues if call leaves device' sections have 'Access Group' set to 'Any Device'. The 'Call/Call - Event Notification allowed if call identifier is known' section has the 'Allow' checkbox checked. The 'Routing Services - Allow routing on listed devices' section has 'Access Group' set to 'Any Device'. The 'OK', 'Cancel', 'Apply', and 'Help' buttons are at the bottom.</p>
8.	<p>On the Admin Access Groups tab, check the Allow User to Administer Admin Access Groups checkbox.</p>  <p>The screenshot shows the 'Create User - CLASS-CTI' dialog box with the 'Admin Access Groups' tab selected. The 'Allow User to Administer Admin Access Groups?' checkbox is checked. The 'OK', 'Cancel', 'Apply', and 'Help' buttons are at the bottom.</p>

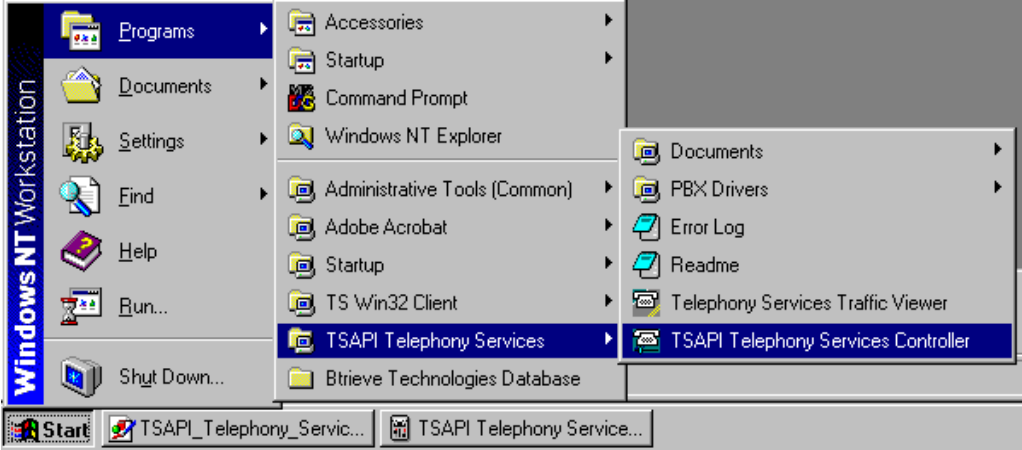

Step	Description
9.	Click Apply and then OK .
10.	Verify that all devices to be monitored are listed under the Devices node. This includes all extensions and hunt groups, if applicable.



The screenshot shows the 'Telephony Services Administrator 32-bit - [AL_RECORDER Devices]' window. The left-hand tree view is expanded to show the 'SDB' folder, which contains sub-items: 'Users', 'Worktops', 'Devices' (highlighted), 'Device Groups', 'Tlinks', 'Tlink Groups', and 'Admin Access Groups'. The main pane displays a table with the following columns: 'Device ID', 'Tlink Group', 'Device Type', and 'Location'. The table lists 27 devices, all with 'Any Tlink' as the Tlink Group and 'PHONE' as the Device Type. The status bar at the bottom reads 'For Help, press F1'.

Device ID	Tlink Group	Device Type	Location
100	Any Tlink	PHONE	
101	Any Tlink	PHONE	
102	Any Tlink	PHONE	
103	Any Tlink	PHONE	
104	Any Tlink	PHONE	
105	Any Tlink	PHONE	
106	Any Tlink	PHONE	
107	Any Tlink	PHONE	
108	Any Tlink	PHONE	
109	Any Tlink	PHONE	
110	Any Tlink	PHONE	
111	Any Tlink	PHONE	
112	Any Tlink	PHONE	
113	Any Tlink	PHONE	
114	Any Tlink	PHONE	
115	Any Tlink	PHONE	
116	Any Tlink	PHONE	
120	Any Tlink	PHONE	
121	Any Tlink	PHONE	
122	Any Tlink	PHONE	
123	Any Tlink	PHONE	
124	Any Tlink	PHONE	
125	Any Tlink	PHONE	
126	Any Tlink	PHONE	
127	Any Tlink	PHONE	

5.3. Telephony Services Controller

Step	Description
1.	<p>Verify that the Telephony Service is running by going to Start → Programs → TSAPI Telephony Services → TSAPI Telephony Services Controller.</p> 
2.	<p>When changes are made, click on the Refresh button to update.</p> 

6. Configure the Audiolog Recorder

6.1. Requirements

- Audiolog Version 2.70 or later
- Single or Dual Network Cards - Depending on the LAN Environment
- Audiolog CTILink Module option
- Audiolog TSAPI Avaya Definity G3 Integration Enabler option
- Audiolog Free-Seating option is required if Free Seating (Agent Logon/Logoff detection) is to be used
- Audiolog Service Observe option (licenses) – required for Single Step Conference
- The Audiolog recorder requires terminate-type telephony interface cards, such as the ANA-TERM or T1/E1 TERM cards depending upon the ECS Station ports selected for use with Single Step Conference
- Workstations running Audiolog client software must be able to access the Audiolog server.

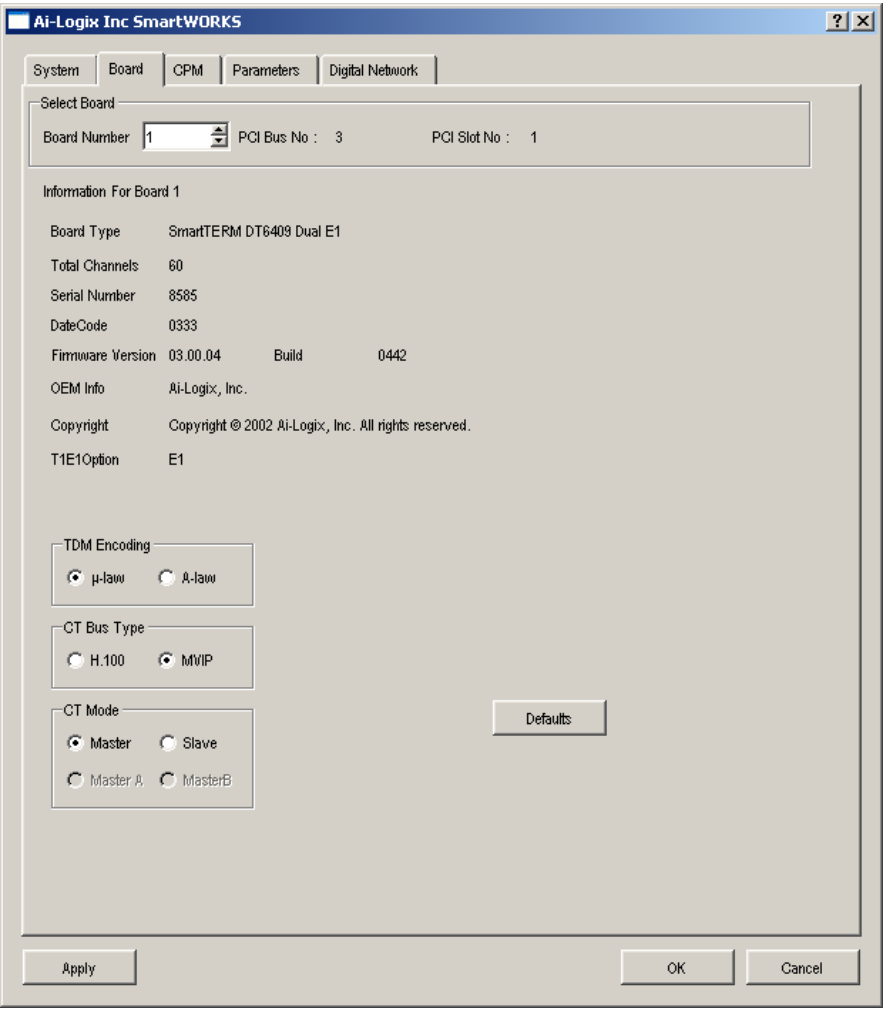
6.2. LAN Connections

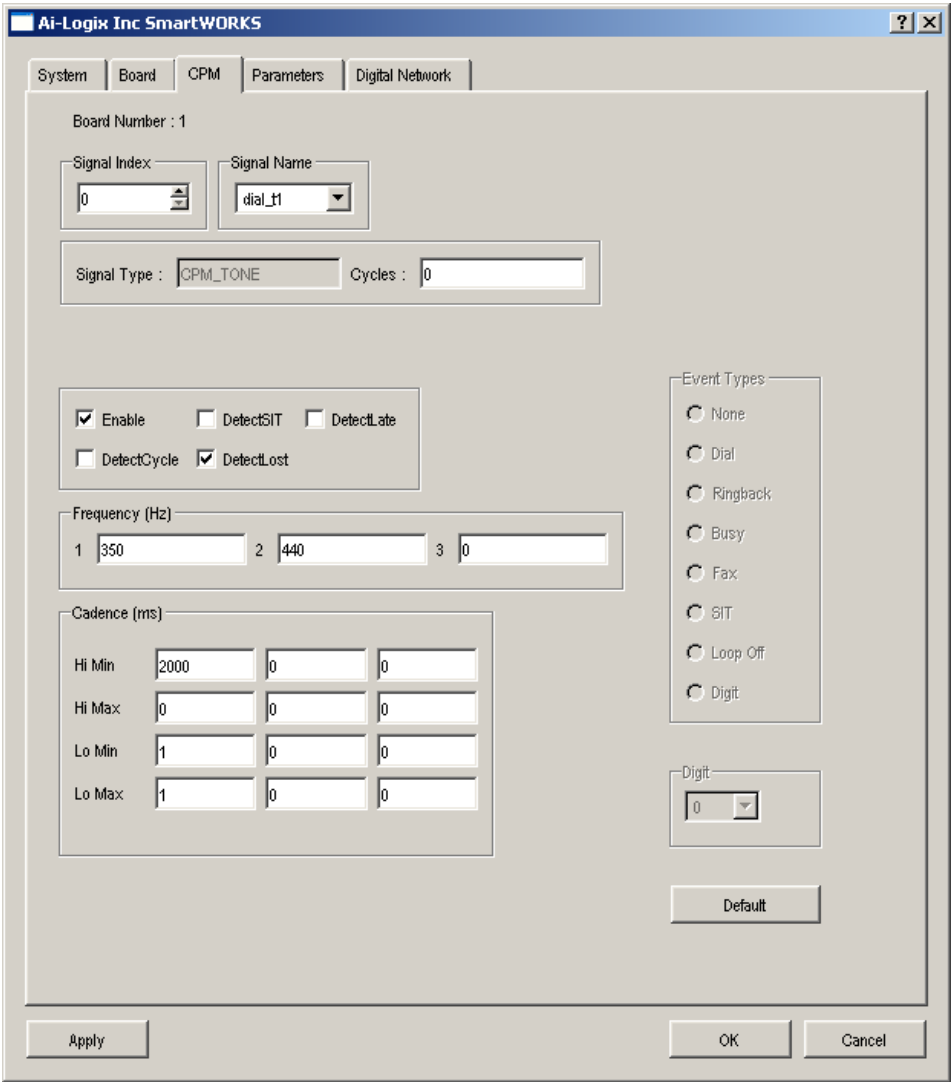
Connect the Audiolog recorder to the same LAN segment as the Avaya Computer Telephony Server.

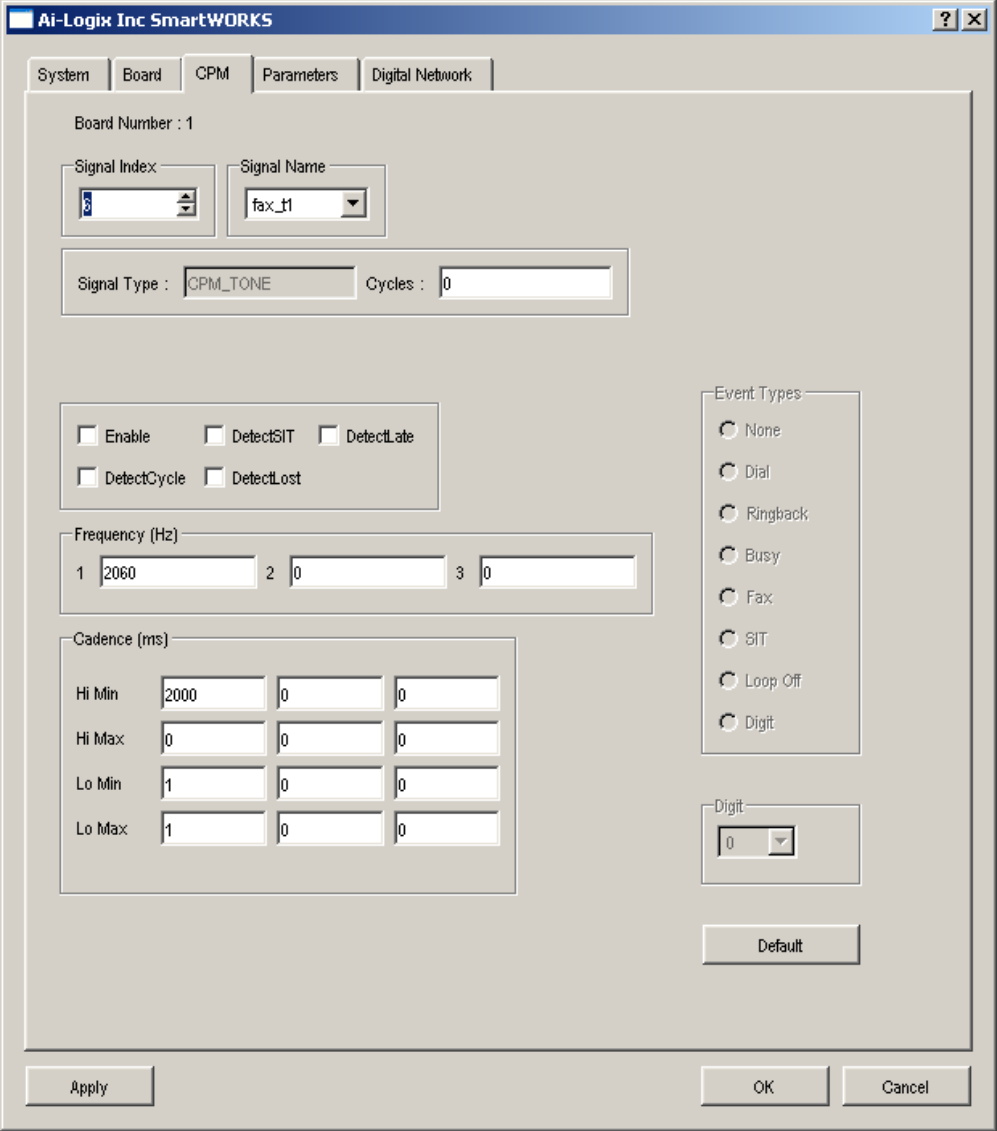
6.3. Audiolog E1 Configuration

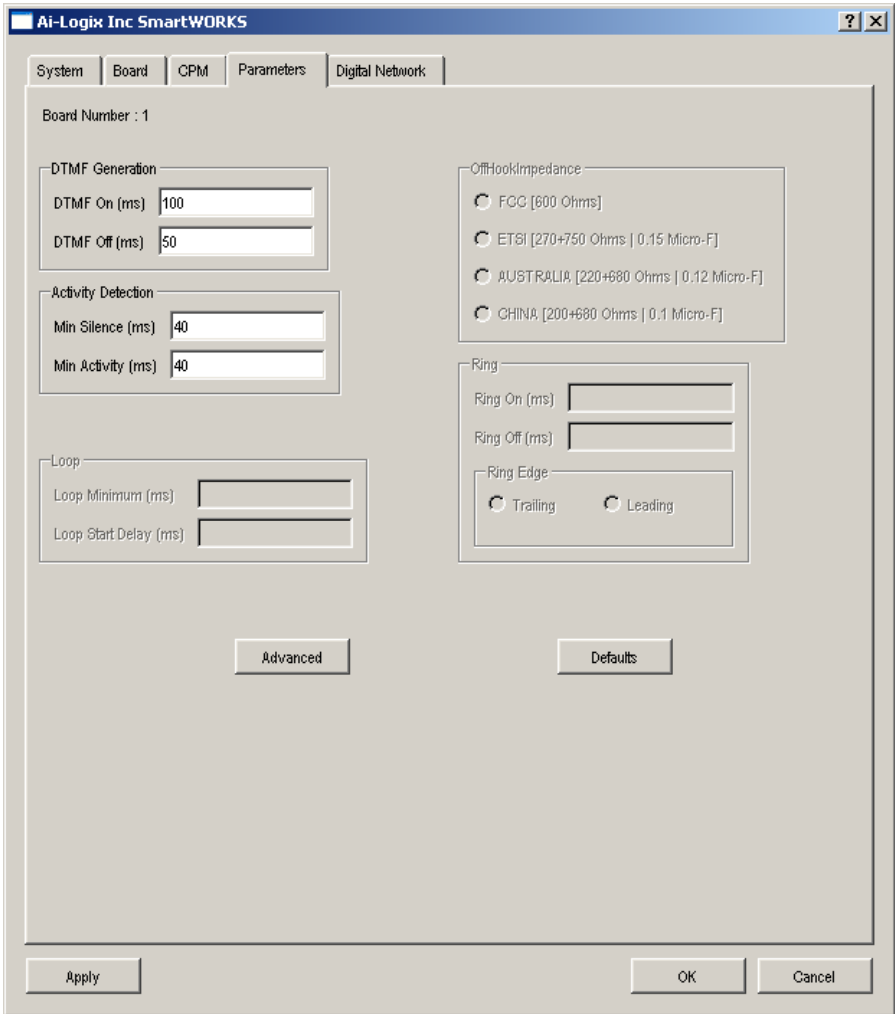
Step	Description
1.	Verify the settings on the PCI telephony interface cards. If there is no Smart Control icon on the desktop, from the Start button, click Control Panel .

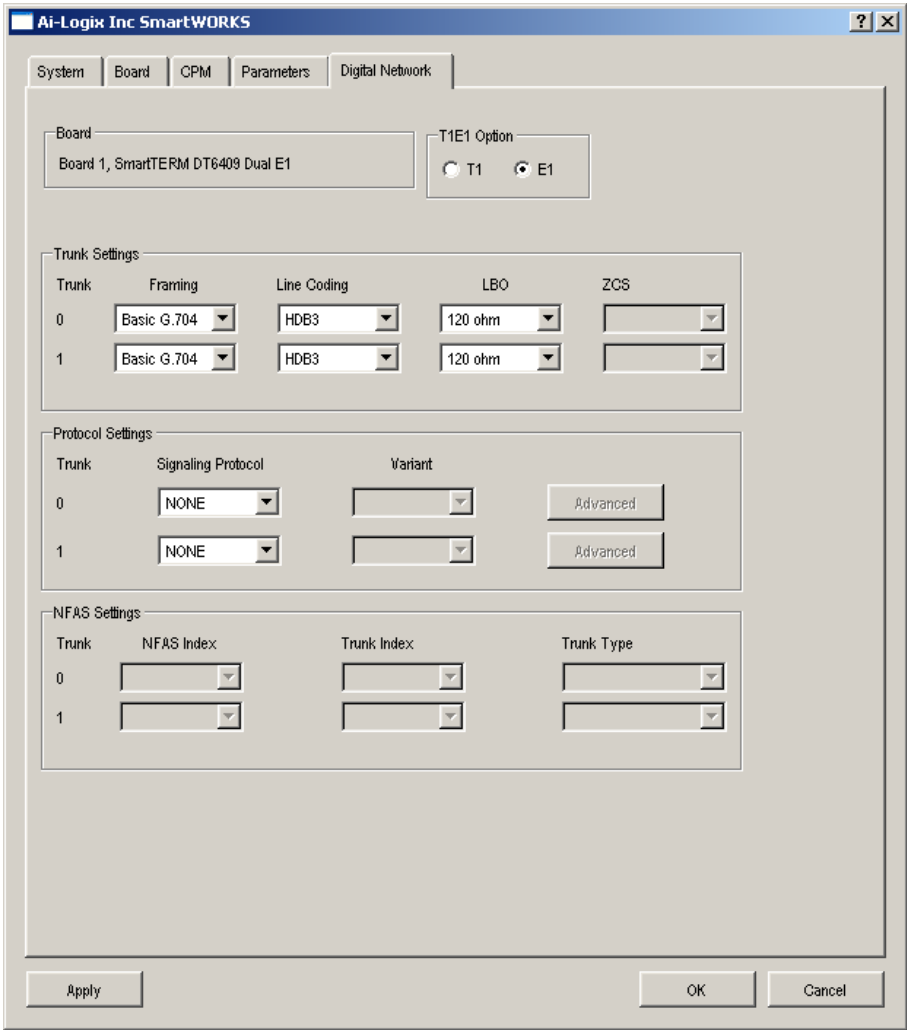
Step	Description
2.	<div data-bbox="621 283 690 346" data-label="Image"> </div> <p>Click the SmartControl icon. The Ai-Logix SmartWORKS dialog box opens.</p> <div data-bbox="451 451 1243 1354" data-label="Image"> </div>
3.	On the System tab, verify the GCI Starting Index is set to 1.
4.	Check the Allow Bus Segmentation box.

Step	Description
5.	<p>Click the Board tab.</p> 
6.	Select the Board Number of the T1/E1 card from the Board Number drop-down list.
7.	Verify the TDM Encoding is set to μ-law .
8.	Verify the Avaya Computer Telephony Bus Type is set to MVIP .
9.	Verify the Avaya Computer Telephony Mode is set to Master .
10.	Click the Apply button if you made any changes.
11.	Click the CPM tab.

Step	Description
12.	<p>Verify the settings shown in the following illustration.</p> 

Step	Description
13.	<p>Increment the Signal Index box until fax_t1 is displayed in the Signal Name box.</p> 
14.	<p>Uncheck the Enable box and click Apply. NOTE: If Fax events are disabled on the Ai-Logix board, Audiolog will detect beep tones as Fax events.</p>

Step	Description
15.	<p>Click the CPM tab and verify the settings shown in the following illustration.</p>  <p>The screenshot shows the 'Ai-Logix Inc SmartWORKS' application window with the 'CPM' tab selected. The 'Board Number' is set to 1. The settings are as follows:</p> <ul style="list-style-type: none"> DTMF Generation: DTMF On (ms) is 100, DTMF Off (ms) is 50. Activity Detection: Min Silence (ms) is 40, Min Activity (ms) is 40. Loop: Loop Minimum (ms) is empty, Loop Start Delay (ms) is empty. Offhook Impedance: Radio buttons for FCC [600 Ohms], ETSI [270+750 Ohms 0.15 Micro-F], AUSTRALIA [220+680 Ohms 0.12 Micro-F], and CHINA [200+680 Ohms 0.1 Micro-F]. Ring: Ring On (ms) is empty, Ring Off (ms) is empty. Ring Edge: Radio buttons for Trailing and Leading. <p>Buttons at the bottom include 'Advanced', 'Defaults', 'Apply', 'OK', and 'Cancel'.</p>

Step	Description
16.	<p>Click the Digital Network tab.</p> 
17.	Set the T1E1 Option for E1 .
18.	Set the Framing to Basic G.704 for each digital trunk on the board.
19.	Set the Line Coding to HDB3 for each digital trunk on the board.
20.	Set the LBO (Line Build Out) to 120OHM for each digital trunk on the board..
21.	Set the Signaling to None for each digital trunk on the board..

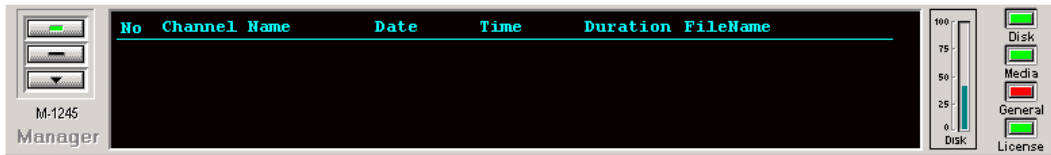
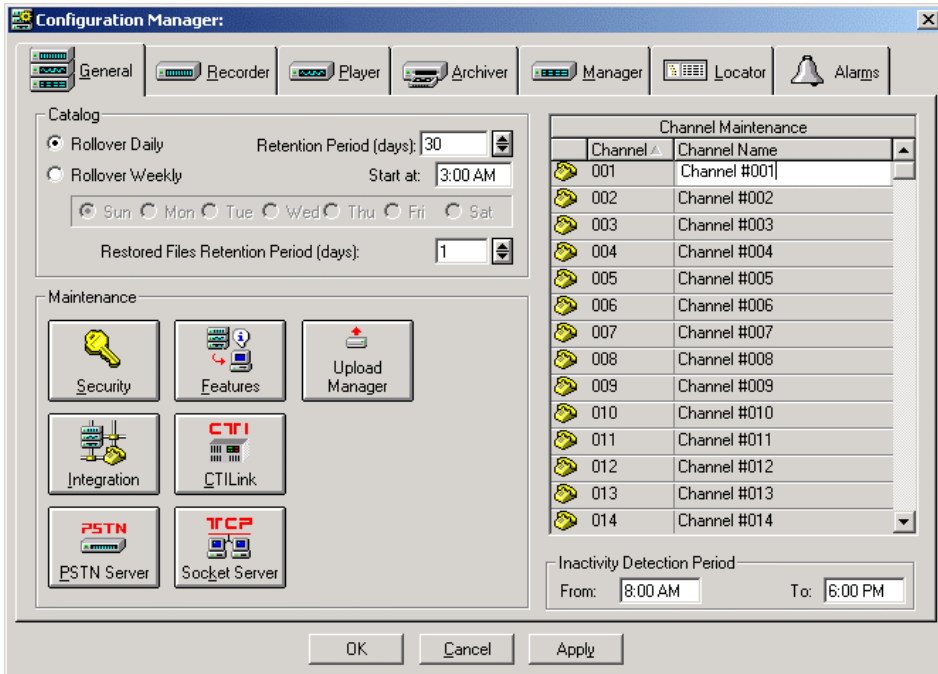
Step	Description
22.	Click the Apply button if any changes were made.
23.	Repeat steps 6 to 22 for each T1/E1 board in the system.
24.	Click the OK button.
25.	After all PCI Telephony interface changes have been made, reboot the Audiolog recording server.


6.4. Registry

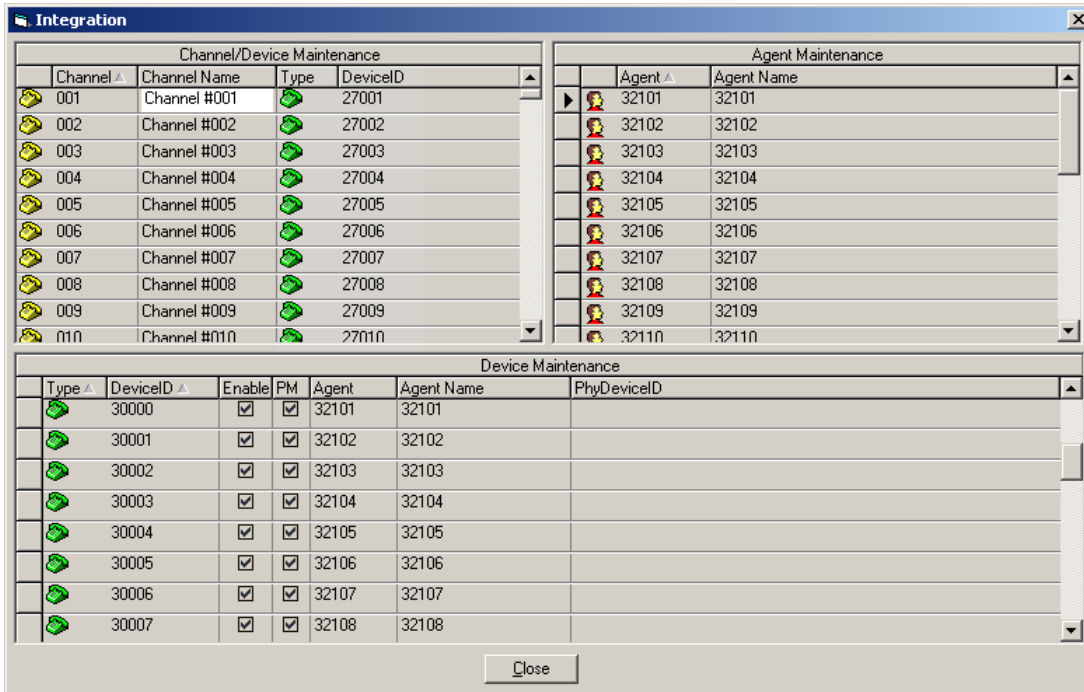
Caution: If you use Registry Editor incorrectly, you may cause serious problems that may require you to reinstall Audiolog and/or your operating system. Mercom cannot guarantee that you can solve problems that result from using Registry Editor incorrectly. Use the Registry Editor at your own risk.

Verify the following system registry settings. All settings are located under the HKEY_LOCAL_MACHINE\Software\ Mercom\Audiolog\CurrentVersion\ key.		
Key	Value	Data
CTILink\Communications\TSAPI	Enumerate Servers	Yes
CTILink\Communications\TSAPI	Enable System Status	Yes
CTILink\Communications\TSAPI	Private Data Version	6
CTILink\Communications\TSAPI\ EventMap\Triggers	Outbound Start Record	59
CTILink\Misc Options	Enable CTI Housekeeping	Yes
CTILink\Misc Options	Enable Enhanced Call Tracking	Yes
CTILink\Misc Options	Enable Free Seating	Yes
CTILink\Misc Options	Enable Service Observe	Yes
Recorder\Misc Options	SSC Feature Code	{enter the code used in the Communication Manager to deactivate the "Send All Calls" feature}

6.5. Integration Tables

Step	Description
1.	Click the center button on the Manager module to access Configuration Manager . 
2.	On the General tab of Configuration Manager, click the Integration button. 


3. In the Channel/Device Maintenance table, enter the extension numbers of the PBX station ports the Audiolog is connected to in order to perform SSC. Select the  (telephone) icon for the Type.




The screenshot shows a software window titled "Integration" with three main sections:

- Channel/Device Maintenance:** A table with columns: Channel, Channel Name, Type, and DeviceID. It lists channels 001 through 010, each with a telephone icon in the Type column and a corresponding DeviceID (27001 to 27010).
- Agent Maintenance:** A table with columns: Agent and Agent Name. It lists agents 32101 through 32110.
- Device Maintenance:** A table with columns: Type, DeviceID, Enable, PM, Agent, Agent Name, and PhyDeviceID. It lists devices 30000 through 30007, each with a telephone icon in the Type column, checked boxes in the Enable and PM columns, and associated Agent and Agent Name values.

A "Close" button is located at the bottom right of the window.

4. In the Device Maintenance table, click in the Type field until the  (telephone) icon appears. This table is used to tell Audiolog which devices (stations, trunks, hunt groups, etc.) are to be monitored and/or recorded. The Device Maintenance Table is also used to designate the ACD Agent currently "seated" at a Station. CTI Integration also permits "free seating" where information in the CTI data stream allows agents to be dynamically associated with a device (telephone).

5. Program the Device Maintenance table with the extension numbers to be recorded.
NOTE: When using Expert Agent Selection, the extension number of the "Skill Set Hunt Group" must also be entered in the Device Maintenance table using the  (telephone) icon. However, leave the **Enable** and **PM** boxes unchecked.

6. Check both the **Enable** and **PM** checkboxes for each extension.

The screenshot shows the 'Integration' window with three main sections:

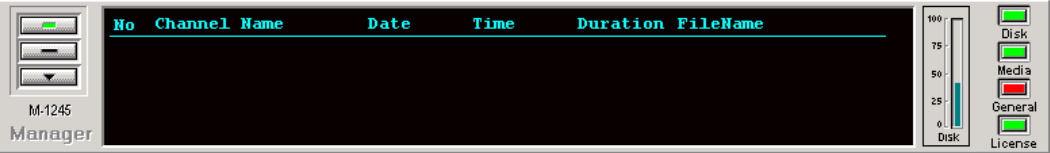
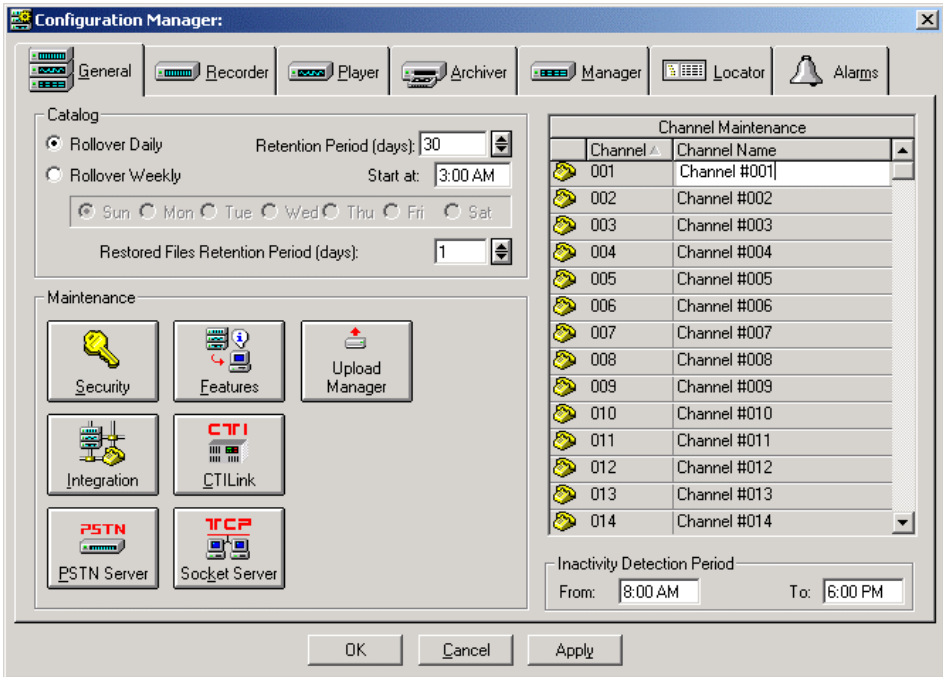
- Channel/Device Maintenance:** A table with columns: Channel, Channel Name, Type, DeviceID. It lists channels 001 through 010, each with a corresponding Channel Name and DeviceID (e.g., 27001).
- Agent Maintenance:** A table with columns: Agent, Agent Name. It lists agents 32101 through 32110, each with a corresponding Agent Name.
- Device Maintenance:** A table with columns: Type, DeviceID, Enable, PM, Agent, Agent Name, PhyDeviceID. It lists devices 30000 through 30007, each with a corresponding Agent and Agent Name. The 'Enable' and 'PM' checkboxes are checked for all devices.

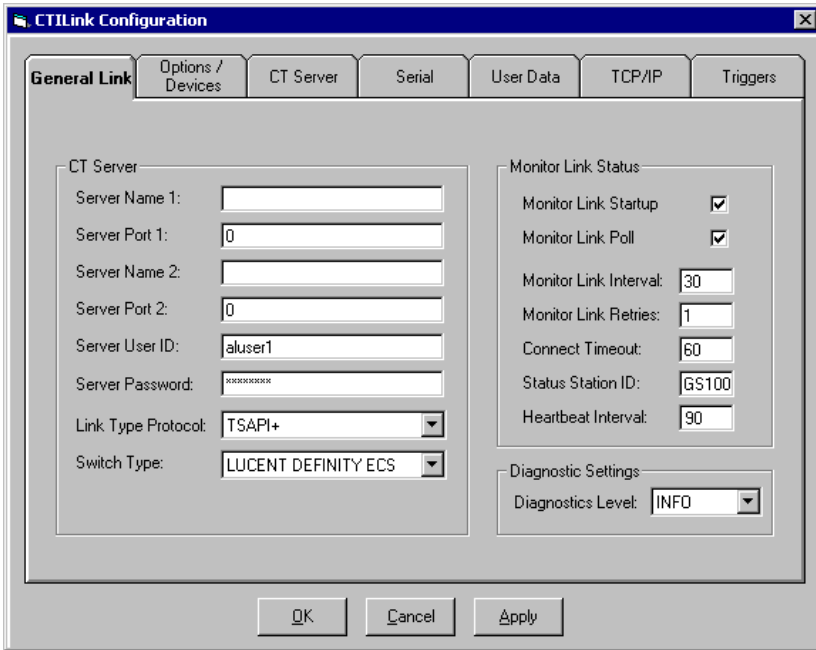
A 'Close' button is located at the bottom right of the window.

7. Click the **Close** button when finished.

6.6. CTILink Configuration

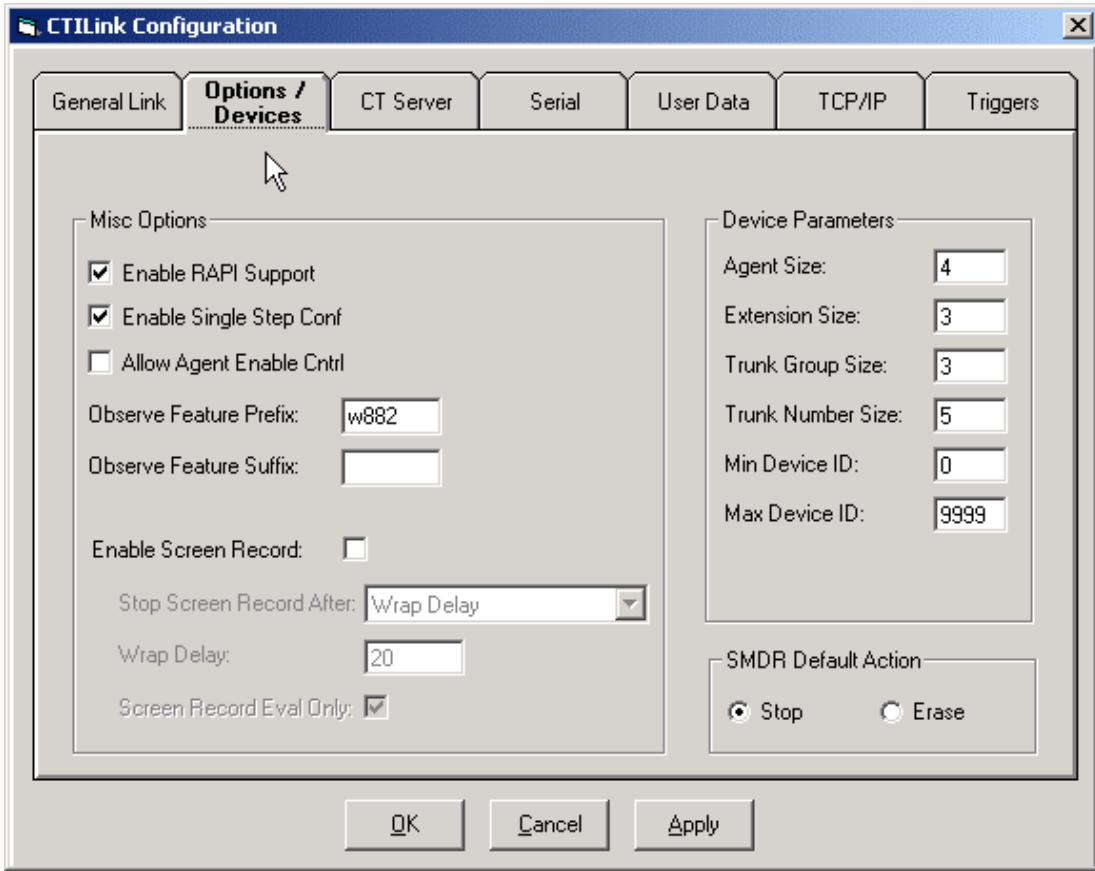
6.6.1. General Link Tab

Step	Description
1.	<p>If Configuration Manager is not already open, click the center button on the Manager module to access Configuration Manager.</p> 
2.	<p>On the General tab of Configuration Manager, click the CTILink button.</p> 

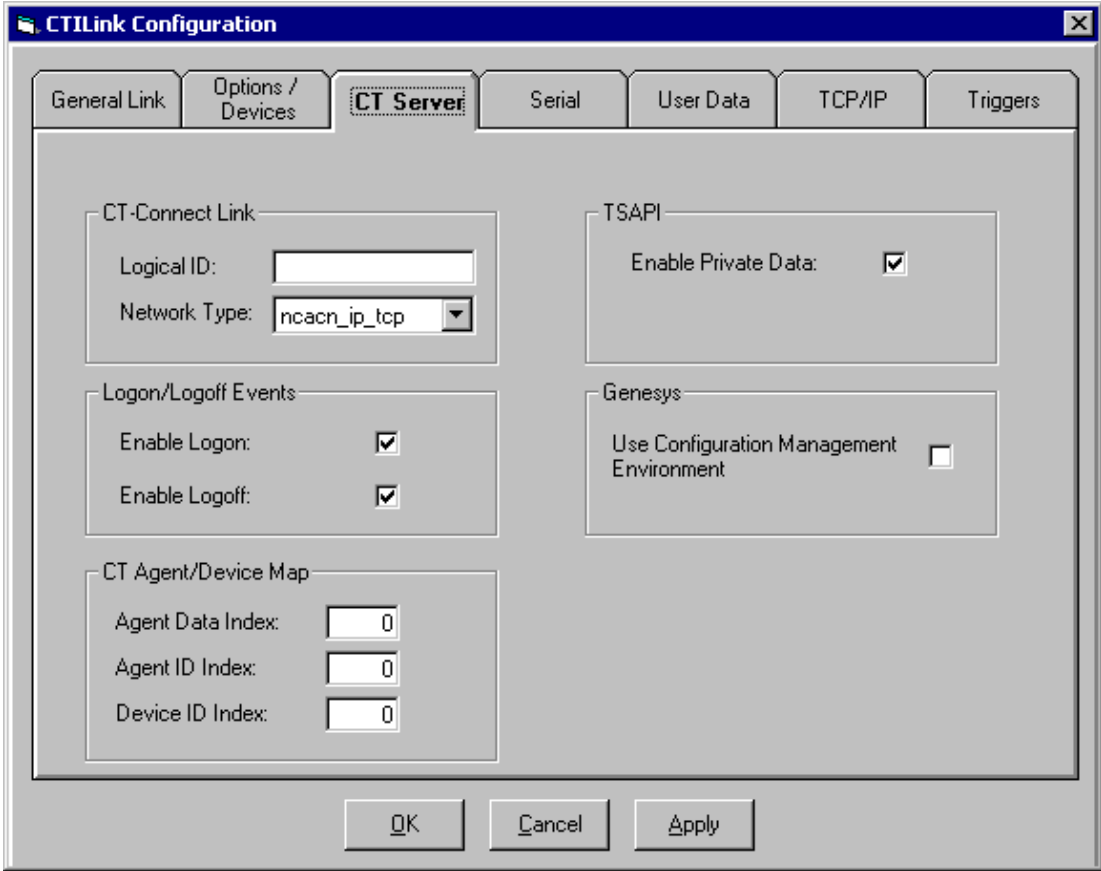
Step	Description
3.	<p>Click the General Link tab.</p> 
4.	Leave the Server Name 1 field blank.
5.	Leave the Server Port 1 field blank.
6.	Set the Server User ID to the user ID created for Audiolog in Avaya Computer Telephony Server (usually aluser1).
7.	Set the Server Password to the password created for the user “aluser1”.
8.	Select TSAPI+ from the Link Type Protocol drop-down list.
9.	Select LUCENT DEFINITY ECS from the Switch Type drop-down list.
10.	Check the Monitor Link Startup checkbox.
11.	Check the Monitor Link Poll checkbox.
12.	Set Monitor Link Interval to 30 .
13.	Set Monitor Link Retries to 1 .

Step	Description
14.	Set Heartbeat Interval to 90 . (In general, the Heartbeat Interval should be set to 3 times the Monitor Link Interval.)
15.	Click the Apply button.

6.6.2. Options/Devices Tab

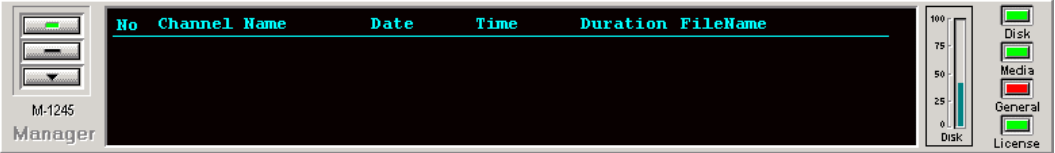
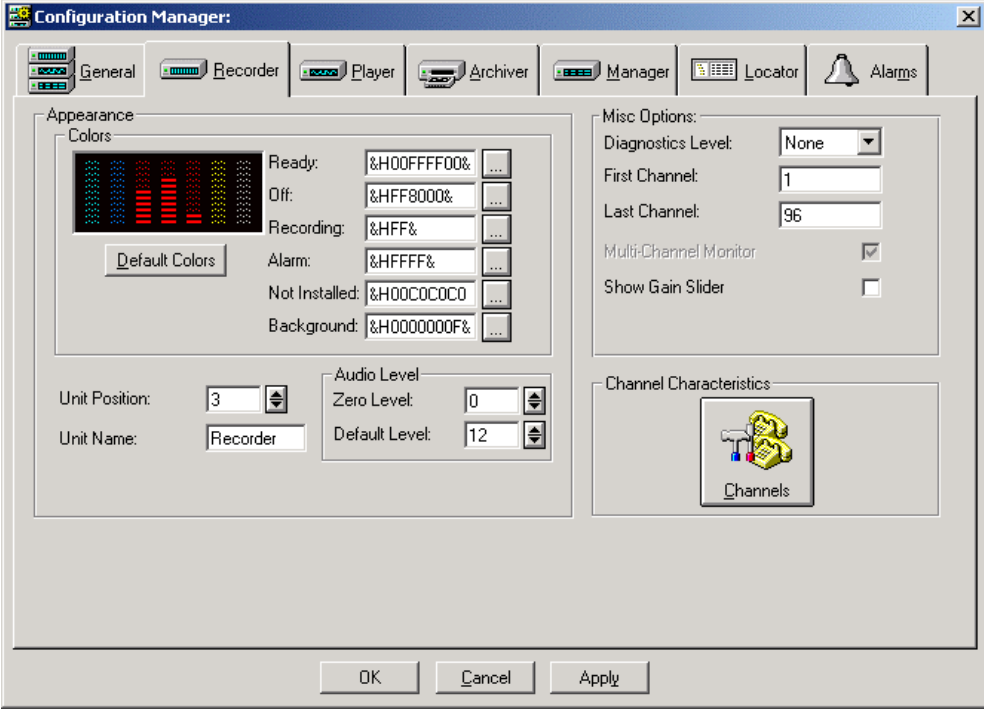
Step	Description
1.	<p>On the Options/Devices tab, check both the Enable RAPI Support and Enable Single Step Conf boxes.</p> 
2.	Click the Apply button.

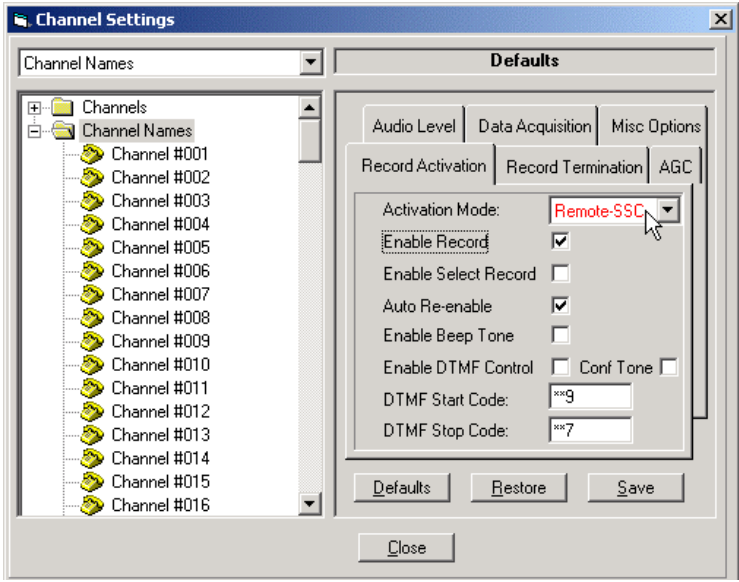
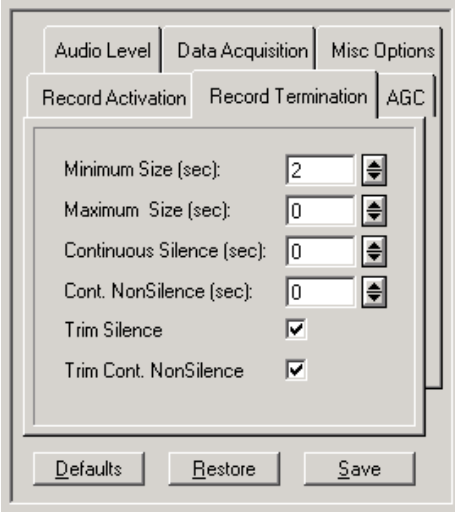
6.6.3. Avaya Computer Telephony Server Tab

Step	Description
1.	<p>On the Avaya Computer Telephony Server tab, check both the Enable Logon and Enable Logoff boxes.</p> 
2.	Check the Enable Private Data checkbox.
3.	Click the Apply button.
4.	Click the OK button to close CTILink configuration.

6.7. Channel Settings

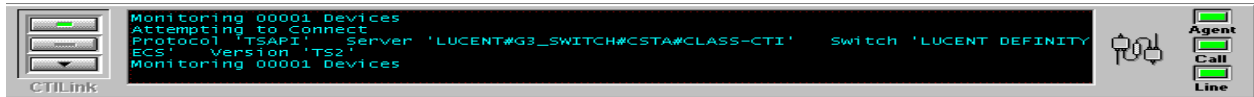
Perform the following steps for each channel:

Step	Description
1.	<p>If Configuration Manager is not already open, click the center button on the Manager module to access Configuration Manager.</p> 
2.	<p>Click the Recorder tab of Configuration Manager.</p> 
3.	<p>Click the Channels button.</p>

Step	Description
4.	<p>On the Record Activation tab, set the Activation Mode to Remote-SSC.</p> 
5.	Click the Save button.
6.	<p>On the Record Termination tab, set Continuous Silence to 0.</p> 
7.	Click the Save button.
8.	Click the Close button when all channels have been configured.

6.8. Restart Audiolog

After configuring the system, shutdown Audiolog and restart it. As soon as the CTILink module has started communicating with the Avaya Computer Telephony Server, the CTILink module should appear with the following:



7. Interoperability Compliance Testing

7.1. General Test Approach

The interoperability compliance test verified the ability of Audiolog to record calls. Call sequences included a call answer, transfer, consult transfer, conference, conference transfer, and blind transfer. The compliance test also encompassed a load test where a call generator made calls to the queue and each agent running Avaya Interaction Center along with an automate script tool to simulate agent responded to calls.

7.2. Test Results

MERCOM Audiolog passed all the compliance test cases.

8. Verification Steps

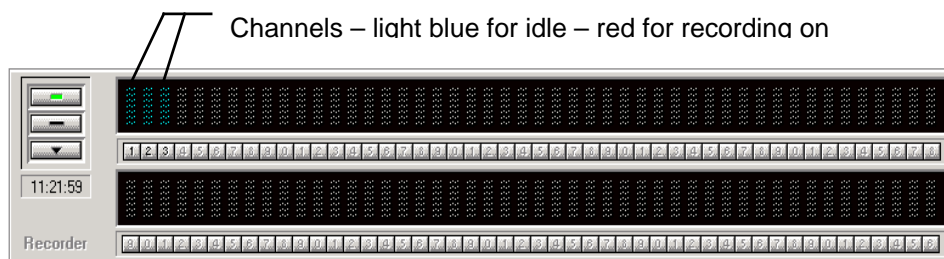
Since Audiolog is based on both hardware and software components, there are several steps involved to verify that both have been installed correctly:

- Ensure that channels can be monitored and recordings can be created
- Ensure that recordings can be accessed and played back from the Catalog
- Ensure that there is network communication between the server and client

8.1. Ensure Channels Can Be Monitored and Recorded

Unless changes are made to the **Appearance** of the **Recorder** module, the idle channels appear with light blue bars.

Make certain the number of available channels matches the number of channels ordered.






Step	Description
1.	Place or receive a call on the channel. Verify the channel indicator turns red when the channel is active.
2.	Verify the correct channel is being recorded.
3.	Click the channel number below the active channel. You should be able to monitor the call.
4.	Disconnect the call. The channel indicator should return to idle (light blue). The channel should stop recording immediately upon disconnection. When the channel stops recording, a message should appear in the Manager module.

8.2. Ensure that Recordings Can Be Accessed from the Catalog

After created several recordings, verify that they can be found in the catalog and then played back.

Be sure to logged-on with **User Name** and **Password**. If a **Please Logon** screen appears when trying to start the Call Locator, enter **User Name** and **Password**, and click **OK**. Then start the Call Locator again.

To play back the recordings just created,

Step	Description
1.	On the server, to start the Call Locator, simply click on the Find button. This is the middle button at the left side of the Player module (you may also select Find from the Player's top button menu). If the Audiolog server has been recording channel audio, then there will be a  icon adjacent to the Catalog folder. The  icon indicates that there are entries (recordings) in the Catalog folder.
2.	Click on the  icon to view the next level of the search tree.
3.	Find the recordings using the Date/Channel view. Verify that all of the appropriate channel names appear under the date. If you have created recordings on all of the recording channels, all of the channel names should appear under the date on which they were created.
4.	Click to select a channel name.

	At least one recording should appear in the right side of the Call Locator.
5.	Right-click the <i>recording</i> and click to select Playback . The recording plays back on the server.

9. Support

9.1. Mercom Support

Mercom provides Pre-sales and Technical Support for Audiolog.

- Technical Support: 201-507-8800 (Dial 5)

Tech.support@mercom.com

- Joe Flynn
Director Support Operations
201-507-8800 x134
joe.flynn@mercom.com

10. Conclusion

This compliance test verified that Mercom Audiolog Recording server successfully integrated with Avaya Interaction Center.

11. Additional References

11.1. Documentation

For information on MERCOM's Audiolog Recording products refer to the following manuals.

- Audiolog Pro, Max-Pro and Ultra-Pro Installation Manual
- Audiolog User's Guide

Visit Mercom web site or contact Mercom Pre-Sales directly for more information.

- www.mercom.com
- Mercom Pre-Sales Department (presales@mercom.com)

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