AVAYA

Avaya Solution & Interoperability Test Lab

Application Notes for Configuring Avaya Aura® Communication Manager R6.0.1 and Avaya Aura® Application Enablement Services R6.1 to interoperate with Speech Technology Centre Smart Logger II v7.6 – Issue 1.0

Abstract

These Application Notes describe the configuration steps for the Speech Technology Centre Smart Logger II solution with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services. Speech Technology Centre Smart Logger II system is a voice recording solution which can be used to record voice streams for Avaya telephony.

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.

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1. Introduction

The purpose of this document is to describe the compliance testing carried out using the Multiple Device Registration recording method on Speech Technology Centre Smart Logger II with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services. It includes a description of the configuration of both the Avaya and the Speech Technology Centre solutions, a description of the tests that were performed and a summary of the results of those tests.

Speech Technology Centre Smart Logger II is a voice recording system which can be used to record the voice stream of Avaya telephony endpoints. In this compliance test, it uses Avaya Aura® Communication Manager's Multiple Device Registration feature via the Avaya Aura® Application Enablement Services (AES) Device, Media, and Call Control (DMCC) interface to capture the audio and call details for call recording. Speech Technology Centre Smart Logger II uses the Avaya Aura® Application Enablement Services DMCC service to register extensions on Avaya Aura® Communication Manager that are to be recorded. When the extension registered by Speech Technology Centre Smart Logger II receives an event pertaining to the start of a call, Speech Technology Centre Smart Logger II receives the extensions RTP media stream.

2. General Test Approach and Test Results

The interoperability compliance testing evaluated the ability of Smart Logger II to carry out call recording in a variety of scenarios using DMCC with AES and Communication Manager. The test approach was to verify that the calls placed and recorded using the Smart Logger II with Avaya solution functioned correctly with good audio quality received. Functionality testing included basic telephony operations such as answer, hold/retrieve, transfer, conference, bridged appearance and calls to/from the PSTN. Tests also included ACD Agent recording. All tests were successful.

2.1. Interoperability Compliance Testing

The interoperability compliance test included both feature functionality and serviceability testing. The feature functionality testing focused on placing and recording calls in different call scenarios to ensure good quality audio recordings were received. Intra-switch calls were made on the Communication Manager and external calls were made to, and received from the PSTN. The serviceability testing focused on verifying the ability of Smart Logger II to recover from disconnection and reconnection of the Avaya solution.

2.2. Test Results

All functionality and serviceability test cases were completed successfully. The following observations were made:

- The serviceability tests were performed by disconnecting the Smart Logger II server from the network/power and ensuring successful recording of calls and good audio quality on re-connection. It was noticed that there was an inconsistent delay in reconnection of Smart Logger II to the configured digital phone when power was restored.

- Due to disk write caching on the SmartLogger II server OS, calls in progress for a short time when the power to the recorder was disconnected, are lost. This can be addressed with a freeware disk caching utility used to amend the rate at which data is committed to the hard drive.
- Upon reconnection of AES, Smart Logger II displays endpoints on a call during disconnection, as still on a call, regardless of if the call has ended or not. This is remedied once a call is placed or received on the relevant endpoint.

2.3. Support

Technical support can be obtained for the Speech Technology Centre Smart Logger II solution as follows:

- Email: support@speechpro.com
- Website: www.speechpro.com
- Phone: +7-812-331-0665

3. Reference Configuration

Figure 1 illustrates the network topology used during compliance testing. The Avaya solution consists of an Avaya S8800 Server running Communication Manager with Avaya G650 Media Gateway as the PBX. An Avaya S8800 Server hosts the Application Enablement Services software. Avaya 9600 series, 1600 series IP telephones and 2400 series Digital telephones are connected to the PBX and used in the testing. The Smart Logger II server running on a VMWare platform was used during the testing.

Figure 1: Avaya Aura® Communication Manager with Avaya Aura® Application Enablement Services Server and Speech Technology Centre Smart Logger II Configuration

4. Equipment and Software Validated

The following equipment and software were used for the sample configuration as shown in **Figure 1.**

Equipment	Software
Avaya Aura® S8800 Server	Avaya Aura® Communication Manager R6.0.1 R16.00.1.510.1-19100
Avaya G650- Media Gateway Avaya TN799DP C-LAN Circuit Pack Avaya TN2602AP Media Processor Circuit Pack	HW1 FW40 HW8 FW58
Avaya Aura® S8800 Server	Avaya Aura® Application Enablement Services R6.1
Avaya 9620C IP Telephone	3.110b
Avaya 1616 IP Telephone	1_3000
Avaya 4610 IP Telephone	2.3
Avaya 2420 Digital Telephone	REL 4.00 HWV 1 FWV 4
Generic VMWare Server	Speech Technology Centre Smart Logger II 7.6.15.2555

5. Configure Avaya Aura® Communication Manager

The configuration and verification steps illustrated in this section were all performed using Communication Manager System Administration Terminal (SAT). The information provided in this section describes the configuration of Communication Manager for this solution. For all other provisioning information such as initial installation and configuration, please refer to the product documentation as referenced in **Section 10**. The configuration steps described in this section can be summarized as follows:

- Verify System Parameters Customer Options
- Verify System Parameters Features
- Configure Service Observe
- Configure Target Stations to be Recorded
- Configure Station Button Assignments
- Configure Hunt Group
- Configure Agent
- Configure Interface to Avaya Aura® Application Enablement Services

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5.1. Verify System Parameters Customer Options

Use the **display system-parameters customer-options** command to verify that Communication Manager has permissions for features illustrated in these Application Notes. On **Page 3**, ensure that **Computer Telephony Adjunct Links?** is set to **y** as shown below.

```
display system-parameters customer-options                   Page   3 of  11
                           OPTIONAL FEATURES


   Abbreviated Dialing Enhanced List? y         Audible Message Waiting? n
       Access Security Gateway (ASG)? n           Authorization Codes? n
        Analog Trunk Incoming Call ID? n                    CAS Branch? n
 A/D Grp/Sys List Dialing Start at 01? n                      CAS Main? n
Answer Supervision by Call Classifier? n          Change COR by FAC? n
                                  ARS? y  Computer Telephony Adjunct Links? y
                  ARS/AAR Partitioning? y  Cvg Of Calls Redirected Off-net? y
           ARS/AAR Dialing without FAC? y                   DCS (Basic)? y
           ASAI Link Core Capabilities? y             DCS Call Coverage? n
           ASAI Link Plus Capabilities? y             DCS with Rerouting? n
           Async. Transfer Mode (ATM) PNC? n
    Async. Transfer Mode (ATM) Trunking? n    Digital Loss Plan Modification? n
             ATM WAN Spare Processor? n                        DS1 MSP? y
                                 ATMS? n            DS1 Echo Cancellation? y
                  Attendant Vectoring? y




           (NOTE: You must logoff & login to effect the permission changes.)
```

5.2. Verify System Parameters Features

Expert Agent Selection is used for the configuration and routing of calls to ACD Agents. Use **change system-parameters features command** and on **Page 11** of the system-parameters features form, set **Expert Agent Selection (EAS) Enabled?** to **y.**

```
change system-parameters features                        Page  11 of  18
                        FEATURE-RELATED SYSTEM PARAMETERS
CALL CENTER SYSTEM PARAMETERS
  EAS
         Expert Agent Selection (EAS) Enabled? y
       Minimum Agent-LoginID Password Length:
           Direct Agent Announcement Extension:                     Delay:
    Message Waiting Lamp Indicates Status For: station

  VECTORING
                      Converse First Data Delay: 0     Second Data Delay: 2
                  Converse Signaling Tone (msec): 100       Pause (msec): 70


    Reverse Star/Pound Digit For Collect Step? n


  Store VDN Name in Station's Local Call Log? n
 SERVICE OBSERVING
            Service Observing: Warning Tone? y     or Conference Tone? n
     Service Observing Allowed with Exclusion? n
             Allow Two Observers in Same Call? n
```

5.3. Configure Service Observe

For the purposes of Multiple Device Registration, Service Observe must be enabled for the Class of Restriction to which the Target Stations will be assigned. Using the command **change cor 1** set both **Can Be Service Observed?** and **Can Be A Service Observer?** to **y**.

```
change cor 1                                                   Page   1 of  23
                              CLASS OF RESTRICTION

                    COR Number: 1
                COR Description: Default

                          FRL: 0                                    APLT? y
   Can Be Service Observed? y           Calling Party Restriction: none
 Can Be A Service Observer? y            Called Party Restriction: none
             Time of Day Chart: 1      Forced Entry of Account Codes? n
               Priority Queuing? n              Direct Agent Calling? y
           Restriction Override: all      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.? y
             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)? y
                        Can Be Picked Up By Directed Call Pickup? y
                                  Can Use Directed Call Pickup? y
                                  Group Controlled Restriction: inactive
```

5.4. Configure Target Stations to be Recorded

For the purpose of the compliance test, extensions 4000-4003 were configured. Use the **add station** command to configure a station for each of the target stations to be recorded. Enter in a descriptive **Name** and **Security Code** for each one. Set the **IP Softphone?** to **y**.

```
add station 4000                                              Page   1 of   5
                                  STATION

Extension: 4000                       Lock Messages? n              BCC: 0
     Type: 2420                    Security Code:1234               TN: 1
     Port: 01A0705                 Coverage Path 1:                COR: 1
     Name: Extn,4000               Coverage Path 2:                COS: 1
                                   Hunt-to Station:
STATION OPTIONS
                                      Time of Day Lock Table:
            Loss Group: 2       Personalized Ringing Pattern: 1
           Data Option: none             Message Lamp Ext: 4000
          Speakerphone: 2-way         Mute Button Enabled? y
      Display Language: english          Expansion Module? n

        Survivable COR: internal         Media Complex Ext:
   Survivable Trunk Dest? y                  IP SoftPhone? y
                                       Remote Office Phone? n
                                        IP Video Softphone? n
                          Short/Prefixed Registration Allowed: default

                                        Customizable Labels? y
```

On **Page 2**, ensure that the **Multimedia Mode** is set to **enhanced**.

```
add station 4000                                        Page   2 of   5
                                STATION
FEATURE OPTIONS
            LWC Reception: spe          Auto Select Any Idle Appearance? n
          LWC Activation? y                     Coverage Msg Retrieval? y
  LWC Log External Calls? n                                 Auto Answer:
none
             CDR Privacy? n                            Data Restriction? n
    Redirect Notification? y            Idle Appearance Preference? n
 Per Button Ring Control? n          Bridged Idle Line Preference? n
     Bridged Call Alerting? n               Restrict Last Appearance? y
 Active Station Ringing: single
                                              EMU Login Allowed? n
        H.320 Conversion? n     Per Station CPN - Send Calling Number?
      Service Link Mode: as-needed               EC500 State: enabled
        Multimedia Mode: enhanced          Audible Message Waiting? n
   MWI Served User Type:                   Display Client Redirection? n
             AUDIX Name:                 Select Last Used Appearance? n
                                         Coverage After Forwarding? s
                                          Multimedia Early Answer? n
 Remote Softphone Emergency Calls: as-on-local Direct IP-IP Audio
Connections? y
  Emergency Location Ext: 4000       Always Use? n IP Audio Hairpinning? n
```

5.5. Configure Station Button Assignments

Use the **change station** command to configure the button assignments of the stations to be recorded, as required. Add the appropriate button assignments as shown on **Page 4** below. In this case there are three call appearance buttons **call-appr**. There are also buttons assigned for the call functions call-pickup, bridged appearance and call park: **call-pkup**, **brdg-appr**, **call-park**.

```
change station 4000                                         Page   4 of   5
                               STATION
 SITE DATA
       Room:                                   Headset? n
       Jack:                                   Speaker? n
      Cable:                                  Mounting: d
      Floor:                               Cord Length: 0
   Building:                                  Set Color:

ABBREVIATED DIALING
    List1:                  List2:                  List3:




BUTTON ASSIGNMENTS
 1: call-appr                          5: brdg-appr  B:1  E:4001
 2: call-appr                          6: call-park
 3: call-appr                          7:
 4: call-pkup                          8:

    voice-mail
```

5.6. Configure Hunt Group

For the purposes of recording agents, a skilled hunt group must be added. Agents who log in to this skill will be recorded. Using the command **add hunt-group next**, assign the hunt group with a **Group Extension** valid in the dialplan, **Group Name** for identification purposes, and set **ACD, Queue** and **Vector** to **y (yes)**. Note the **Group Number 1**.

```
add hunt-group next                                            Page   1 of   4
                              HUNT GROUP


           Group Number: 1                              ACD? y
             Group Name: Smart Logger II Monitor          Queue? y
        Group Extension: 4010                             Vector? y
             Group Type: ucd-mia
                     TN: 1
                    COR: 1                    MM Early Answer? n
          Security Code:               Local Agent Preference? n
 ISDN/SIP Caller Display:


            Queue Limit: unlimited
 Calls Warning Threshold:      Port:
  Time Warning Threshold:      Port:
```

Navigate to **Page 2,** set **Skill** to **y.**

```
add hunt-group next                                            Page   2 of   4
                              HUNT GROUP


                    Skill? y      Expected Call Handling Time (sec): 180
                     AAS? n
                 Measured: none
     Supervisor Extension:


      Controlling Adjunct: none



 Timed ACW Interval (sec):
   Multiple Call Handling: none
```

5.7. Configure Agents

Agents to be recorded should be assigned the Smart Logger Monitor Skill configured in the previous step.

```
add agent-loginID 4011                                         Page   1 of   3
                              AGENT LOGINID

              Login ID: 4011                                        AAS? n
                  Name: Agent1                                    AUDIX? n
                    TN: 1                              LWC Reception: spe
                   COR: 1                        LWC Log External Calls? n
         Coverage Path:                      AUDIX Name for Messaging:
         Security Code:123456
                                             LoginID for ISDN/SIP Display? n
                                                        Password:123456
                                             Password (enter again):123456
                                                    Auto Answer: station
                                               MIA Across Skills: system
                                      ACW Agent Considered Idle: system
                                      Aux Work Reason Code Type: system
                                        Logout Reason Code Type: system
                         Maximum time agent in ACW before logout (sec): system
                                            Forced Agent Logout Time:   :


      WARNING:  Agent must log in again before changes take effect
```

Navigate to **Page 2**, set **1** in the Skill Number (**SN**).

```
add agent-loginID 4202                                         Page   2 of   3
                              AGENT LOGINID
       Direct Agent Skill:                            Service Objective? n
Call Handling Preference: skill-level               Local Call Preference? n

    SN  RL SL         SN  RL SL         SN  RL SL         SN  RL SL
 1: 1           1   16:               31:               46:
 2:                 17:               32:               47:
 3:                 18:               33:               48:
 4:                 19:               34:               49:
 5:                 20:               35:               50:
 6:                 21:               36:               51:
 7:                 22:               37:               52:
 8:                 23:               38:               53:
 9:                 24:               39:               54:
10:                 25:               40:               55:
```

5.8. Configure Interface to Avaya Aura® Application Enablement Services

Enter the node **Name** and **IP Address** for the AES, in this case **devconaes61** and **10.10.16.30** respectively. Take a note of the **CLAN** node **Name** and **IP Address** as it is used later in this section

```
change node-names ip                                           Page   1 of   2
                                   IP NODE NAMES
    Name                   IP Address
CLAN                       10.10.16.31
CM521                      10.10.16.23
Gateway                    10.10.16.1
IPbuffer                   10.10.16.184
Intuition                  10.10.16.51
MedPro                     10.10.16.32
Presence                   10.10.16.83
RDTT                       10.10.16.185
SESMNGR                    10.10.16.44
SM1                        10.10.16.43
SM61                       10.10.16.201
default                    0.0.0.0
devconaes61                10.10.16.30
```

In order for Communication Manager to establish a connection to AES, administer the CTI Link as shown below. Specify an available **Extension** number as per the dialplan, set the **Type** as **ADJ-IP**, which denotes that this is a link to an IP connected adjunct, and name the link for easy identification, in this instance, the node-name is used.

```
add cti-link 1                                                 Page   1 of   3
                                   CTI LINK
 CTI Link: 1
Extension: 1111
     Type: ADJ-IP
                                                                        COR:
1
     Name: devconaes61
```

Configure IP-Services for the **AESVCS** service using **change ip-services** command and using the C-LAN node name as noted above i.e. **CLAN.**

```
change ip-services                                              Page   1 of   4

                              IP SERVICES
  Service     Enabled     Local      Local      Remote      Remote
   Type                   Node       Port       Node        Port

CDR1                      CLAN          0       IPbuffer      9000
CDR2                      CLAN          0       RDTT          9001
AESVCS        y           CLAN       8765
```

Navigate to **Page 4,** set the **AE Services Server** node-name and the **Password** the AES Server will use to authenticate with Communication Manager, set **Enabled** to **y**.

```
change ip-services                                              Page   4 of   4
                         AE Services Administration

   Server ID    AE Services        Password         Enabled    Status
                  Server
      1:        devconaes61        Avayapassword1      y        in use

```

6. Configuration of Avaya Aura® Application Enablement Services

This section provides the procedures for configuring Application Enablement Services (AES). The procedures fall into the following areas:

- Verify Licensing
- Create Switch Connection
- Create CTI User
- Enable CTI User
- Configure DMCC Port
- Enable Security Database

6.1. Verify Licensing

Access the Web License Manager of the Application Enablement Services Server, in this instance using the URL https://10.10.16.30/WebLM/index.jsp. The Web License Manager Screen is displayed, and login using the appropriate credentials.

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The **Web License Manager** screen below is displayed. Select **Licensed products →
APPL_ENAB → Application_Enablement** in the left pane, to display the **Licensed Features**
screen in the right pane. Verify that there are sufficient licenses for **Device Media and Call
Control**, as shown below. If not, consult with an Avaya Account Manager or Business Partner to
acquire the proper licenses.

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6.2. Create Switch Connection

Access the OAM web-based interface of the Application Enablement Services Server, in this instance using the URL https://10.10.16.30. The Management console is displayed, and login using the appropriate credentials.

The **Welcome to OAM** screen is displayed next.

To establish the connection between Communication Manager and the Application Enablement Services Server, click **Communication Manager Interface → Switch Connections**. In the field next to next to **Add Connection**, enter **CM** and click on **Add Connection**, the following screen will be displayed. Complete the configuration as required and enter the password specified in **Section 5.8** when configuring AESVCS in ip-services. In this instance the password is **Avayapassword1**. Click on **Apply**.

The screen below is displayed. Click on **Edit PE/CLAN IPs** in order to specify the IP address of the C-CLAN, as noted in **Section 5.8**.

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Next to **Add Name or IP,** enter the IP address of the C-LAN and click on **Add Name or IP**.

Select **AE Services** on the left frame and verify that the **DMCC Service** is licensed by ensuring that **DMCC Service** is in the list of services and that the **License Mode** is showing **NORMAL MODE**. If not, consult with your Avaya Account Manager or Business Partner to acquire the proper license.

6.3. Create CTI User

A user ID and password needs to be configured for Smart Logger II to communicate as a DMCC Client with the Application Enablement Services. Select **User Management** ➔ **User Admin** ➔ **Add User** from the left pane, to display the **Add User** screen in the right pane. Enter desired values for **User Id**, **Common Name**, **Surname**, **User Password** and **Confirm Password**. For **Avaya Role**, select **userservice.useradmin** from the drop down list. For **CT User**, select **Yes** from the drop-down list. Retain the default value in the remaining fields. Click **Apply** at the bottom of the screen (not shown below).

6.4. Enable CTI User

Navigate to the users screen by selecting **Security → Security Database → CTI Users → List All Users.** In the **CTI Users** window, select the user that was set up in **Section 6.3** and select the **Edit** option.

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The **Edit CTI User** screen appears. Tick the **Unrestricted Access** box and **Apply Changes** at the bottom of the screen.

6.5. Configure DMCC Port

On the AES Management Console navigate to **Networking → Ports** to set the DMCC server port. During the compliance test, the **Unencrypted Port** set to **4721** was **Enabled** as shown in the screen below. Click the **Apply Changes** button (not shown) at the bottom of the screen to complete the process.

6.6. Enable Security Database

Select **Security → Security Database → Control** from the left pane, to display the **SDB Control for DMCC and TSAPI, JTAPI and Telephony Web Services** screen in the right pane. Check **Enable SDB for DMCC Service** and **Enable SDB TSAPI Service, JTAPI and Telephony Web Services**, and click **Apply Changes.**

7. Configuration of Speech Technology Centre Smart Logger II

The Smart Logger II application is provided and installed by Speech Technology Centre. Smart Logger II runs on Windows XP and configured to obtain a reserved IP address using DHCP. The configuration of this is outside of the scope of this Application Note. The installation process of Smart Logger II is comprised of 4 Microsoft Installation packages (MSI) for each component of the application, installed in the following order:
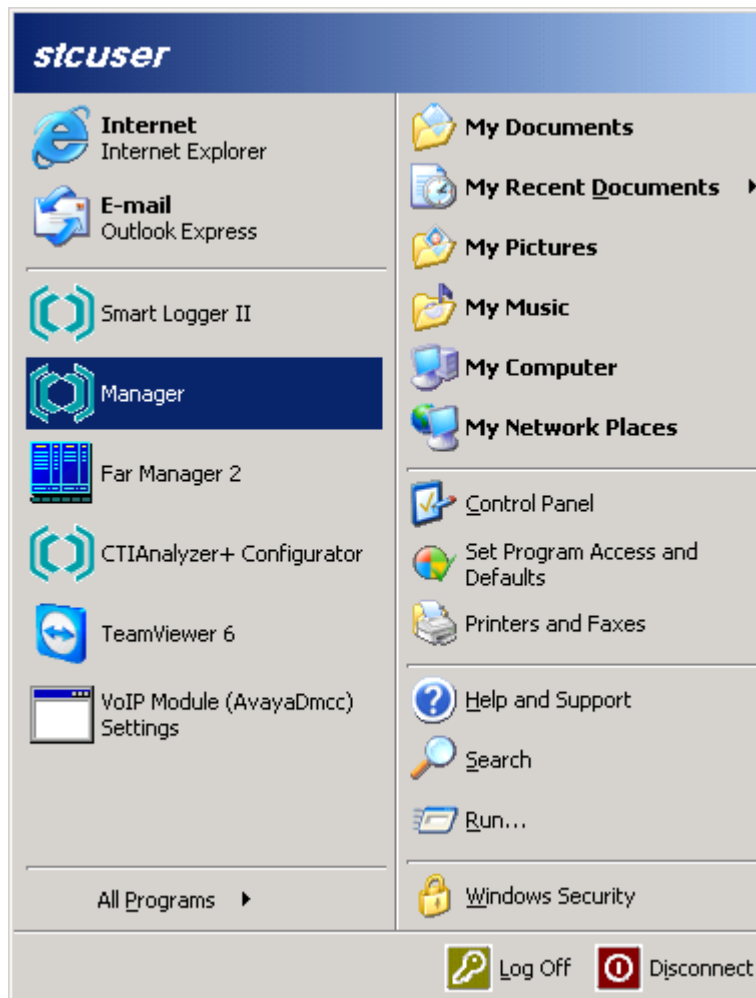
- SmartLoggerII_7.6.15 – the Smart Logger II Application
- SLII_AvayaDmccSource2_7.6.15 – for DMCC connectivity to AES
- SLII_CTIAnalyzerPlus_7.6.15 – for DMCC connection management.
- SLII_Operator_7.6.15 – GUI for Smart Logger II

As a prerequisite, Microsoft SQL, was supplied and installed by Speech Technology Centre to provide the database for calls. Full installation of each component is performed by Speech Technology Centre, only the elements relevant to the configuration for interoperability are detailed here. These can be summarized as:
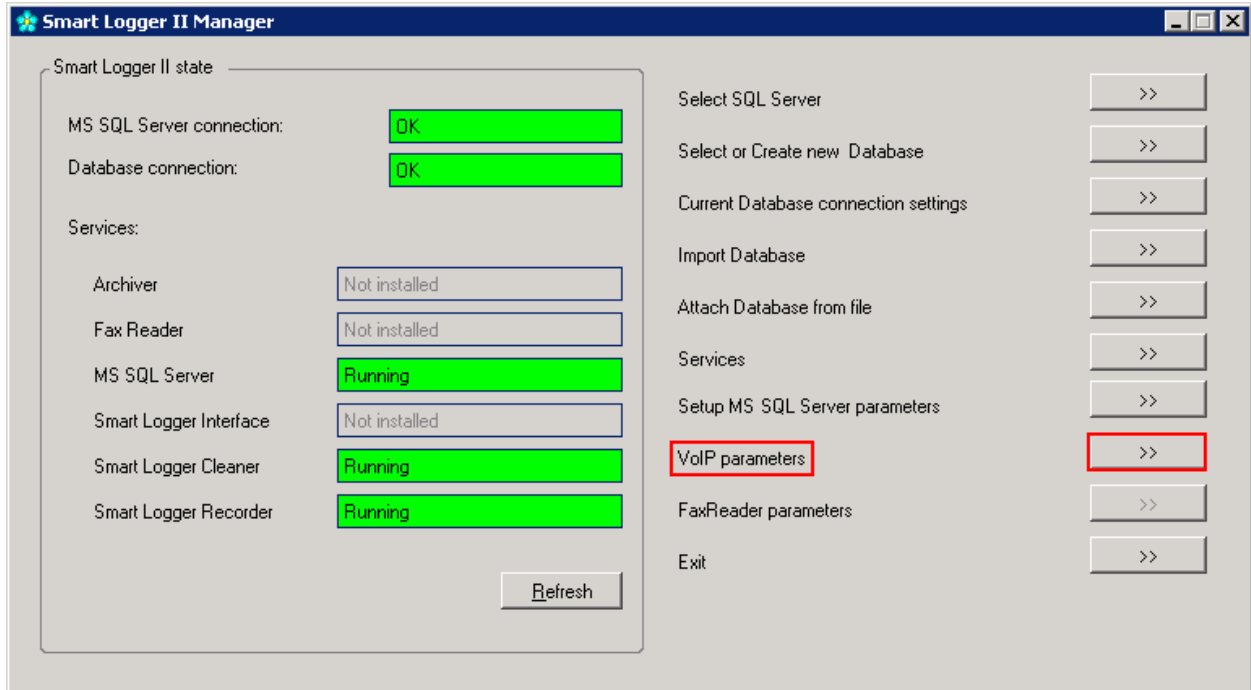
- Register extensions to Smart Logger II
- Configure Smart Logger II connection to AES
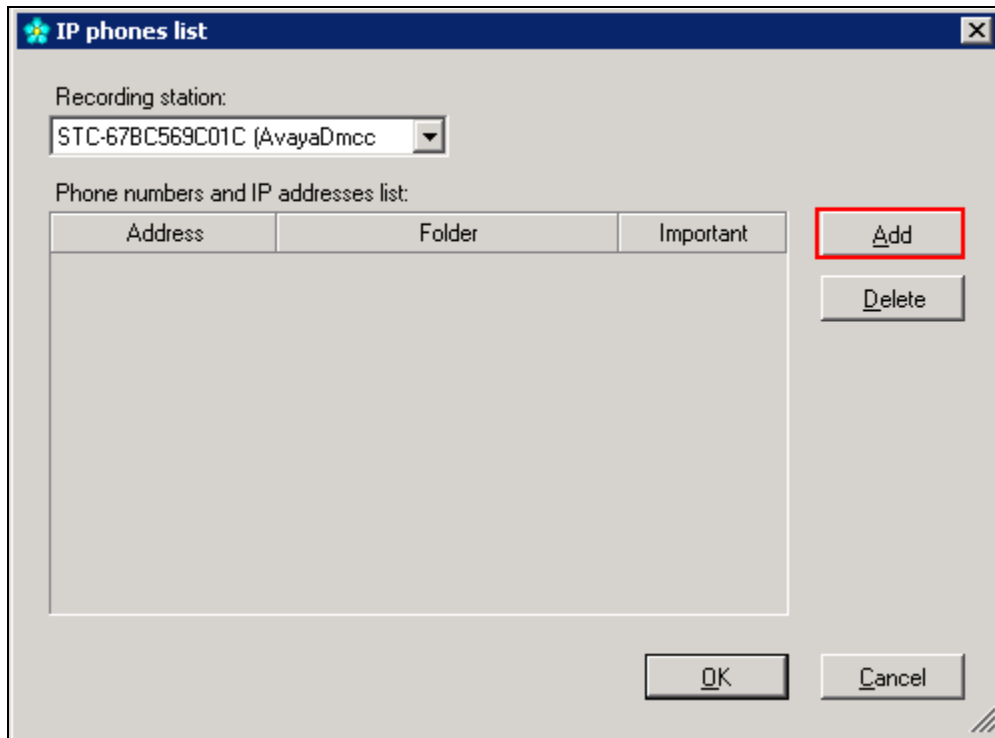
7.1. Register extensions to Smart Logger II

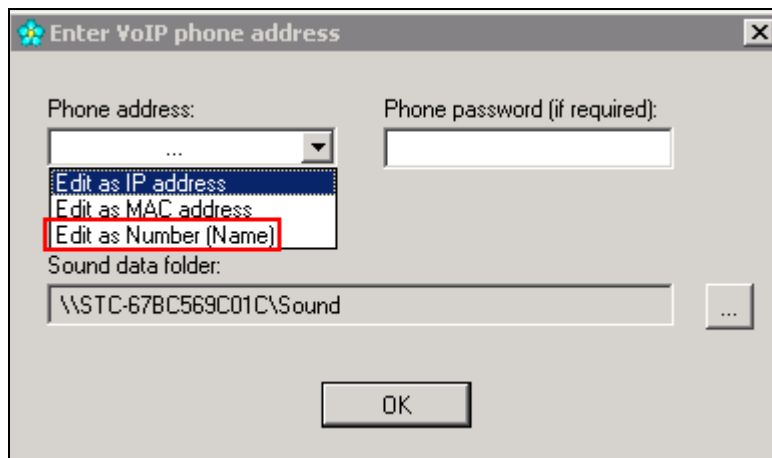On the PC hosting Smart Logger II, click the **Start** menu and click **Manager.**

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The screen shown below will be presented, click **>>** next to **VoIP Parameters**.

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On the screen that appears shown below, click **Add.**

Choose **Edit as Number (Name)** from the drop down list.

Enter the extension number of an extension to be recorded in the **Phone Address** field and click **OK**. A **Phone password** is not required, as the CTI user is configured on AES with Unrestricted Access.

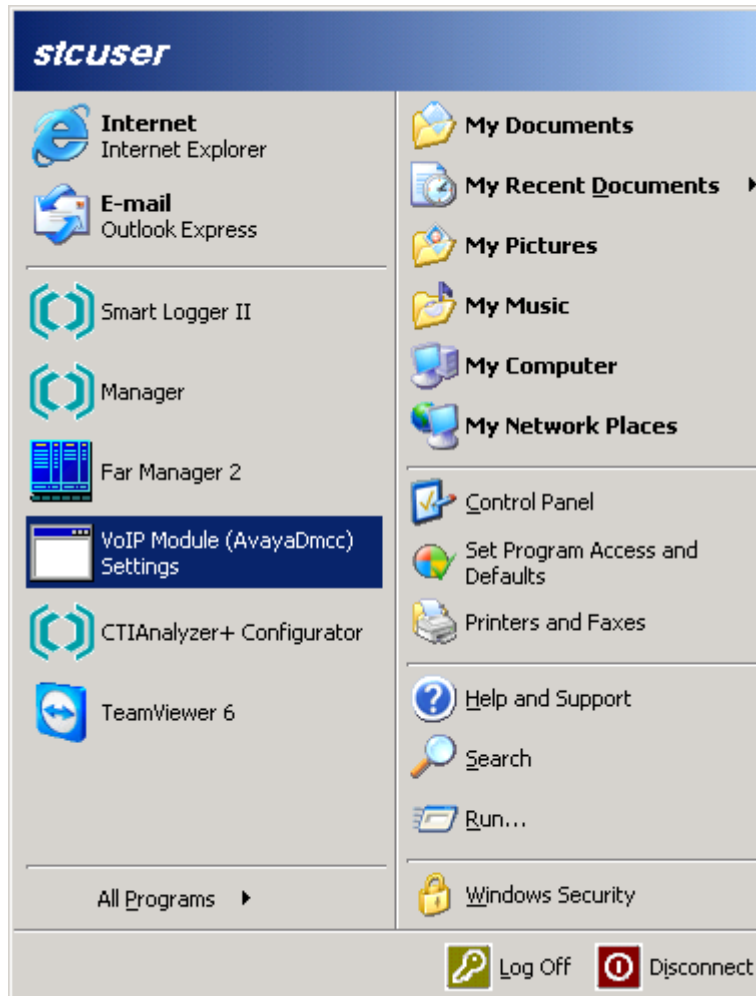The screen below will appear, showing the extension specified above, added to **Phone numbers and IP addresses list**.

Repeat these steps for each extension to be recorded, click **OK** when complete.

7.2. Configure Smart Logger II connection to Avaya Aura® Application Enablement Services

In order for Smart Logger II to connect to AES, the relevant settings must be configured. On the PC hosting Smart Logger II, click the **Start** menu and click **VoIP Module (AvayaDmcc) Settings**.
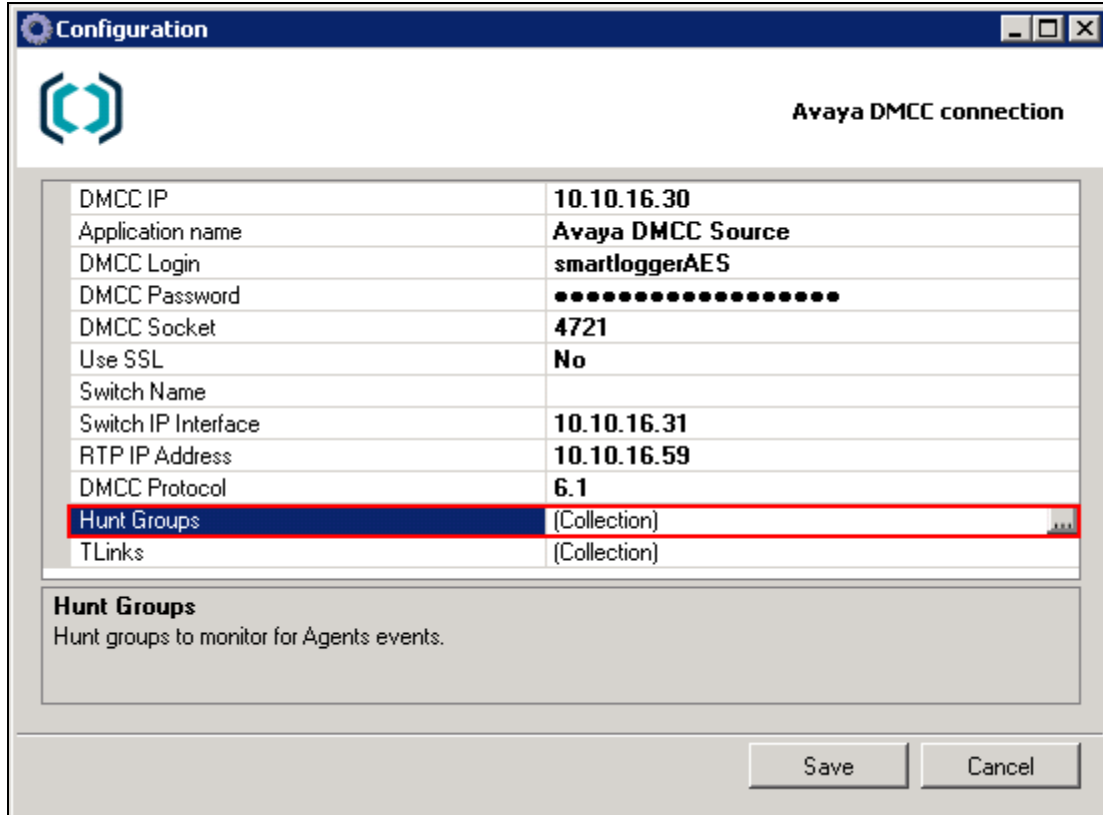
Complete the Avaya DMCC connection properties as shown below where, **DMCC IP** is the AES IP Address, **Application Name** is **Avaya DMCC Source, DMCC Login** is the user added on AES, **DMCC Password** is the password configured for the user added on AES, **DMCC Socket** is as specified in **Section 6.5**, **Switch IP Interface** is the address of the C-LAN and **RTP IP Address** is the IP address of the Smart Logger PC.

Configuration	Avaya DMCC connection
DMCC IP	10.10.16.30
Application name	Avaya DMCC Source
DMCC Login	smartloggerAES
DMCC Password	••••••••••••••••••
DMCC Socket	4721
Use SSL	No
Switch Name	
Switch IP Interface	10.10.16.31
RTP IP Address	10.10.16.59
DMCC Protocol	6.1
Hunt Groups	(Collection)
TLinks	(Collection)

DMCC IP
IP address or DNS name of the AE Services server.

Save   Cancel

Select **Hunt Groups** and click **…**
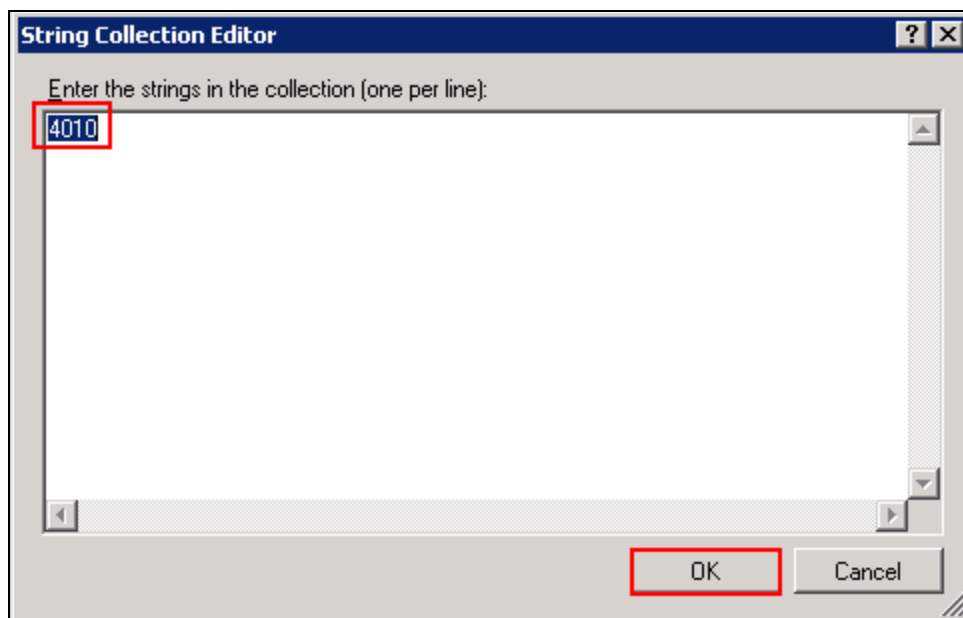

Enter the extension number of the Smart Logger II Monitor hunt group in the screen that appears and click **OK**, shown below.
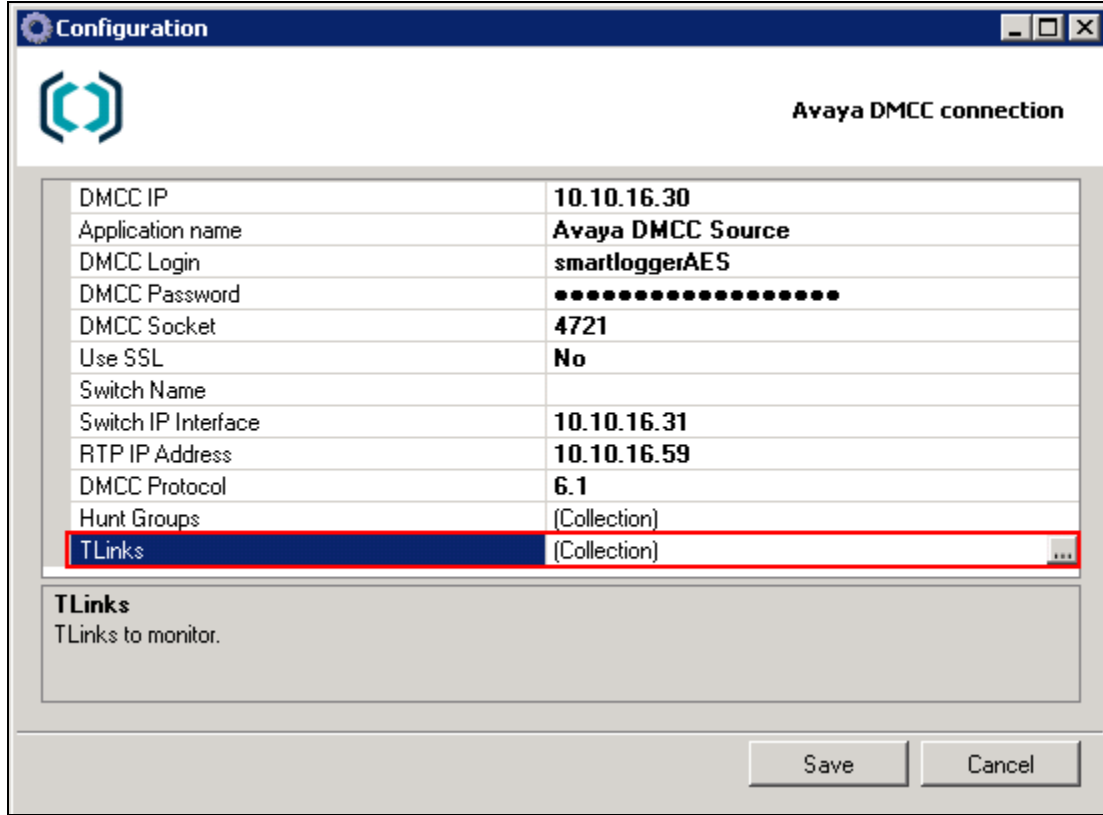
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Select **TLinks** and click **…**

Specify the name of the TLink, this must be identical to the name configured in the connection added in **Section 6.2** and click **OK.**

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Click **Save** to commit the settings configured.

The screen below will be shown, advising the restart of the Smart Logger II services with the new configuration.

8. Verification Steps

This section provides the tests that can be performed to verify correct configuration of Avaya and Speech Technology Centre solution.

8.1. Verify Avaya Aura® Communication Manager CTI Service State

The following steps can ensure that the communication between Communication Manager and the Application Enablement Services server is functioning correctly. Using SAT connect to Communication Manager and check the AESVCS link status with Application Enablement Services by using the command **status aesvcs cti-link**. The CTI Link is 1. Verify the **Service State** of the CTI link is **established.**

```
status aesvcs cti-link

                      AE SERVICES CTI LINK STATUS

CTI    Version     Mnt    AE Services    Service      Msgs    Msgs
Link               Busy    Server        State        Sent    Rcvd

1        4         no     devconaes61    established   18      18
```

8.2. Verify Avaya Aura® Application Enablement Services DMCC Service

The following steps are carried out on the AES to ensure that the communication link between Communication Manager and the Application Enablement Services server is functioning correctly. Verify the status of the DMCC service by selecting **Status → Status and Control → DMCC Service Summary.** The **DMCC Service Summary – Session Summary** screen is displayed as shown below. It shows a connection to the Smart Logger II PC, IP address **10.10.16.59**. The **Application** is set to **Avaya DMCC Source** and the **Far-end Identifier** is given as the IP address **10.10.16.59** as expected.

RCP; Reviewed:
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8.3. Verify Smart Logger II Configuration

The following steps can be performed to verify the basic operation of the system components. To confirm DMCC connection to AES, in an appropriate text editor, on the Smart Logger II PC, open **AvayaDmccFull.log** contained in **c:\program files\Speech Technology Centre\ CTIAnalyzerPlus\logs**. A successful connection can be verified by the following lines contained in the log:

```
2011-10-10 19:06:45,359 [Connection restore] DEBUG avaya_dmcc_source -
Conncting to AES with settings:
(SessionSettings)
ServerIp:                          10.10.16.30
ServerPort:                        4721
ApplicationName:                   Avaya DMCC Source
UserName:                          smartloggerAES
UserPassword:                      smartloggerAES123!
SessionCleanupDelay:               60
SessionDuration:                   180
ProtocolVersion:                   http://www.ecma-
international.org/standards/ecma-323/csta/ed3/priv5
Secure:                            False
UserState:
StartAutoKeepAlive:                True
AllowCertificateHostnameMismatch:  True


2011-10-10 19:06:45,906 [Connection restore] DEBUG avaya_dmcc_source -
ConnectionWatcher.ThreadFunc: Connected to AES
```
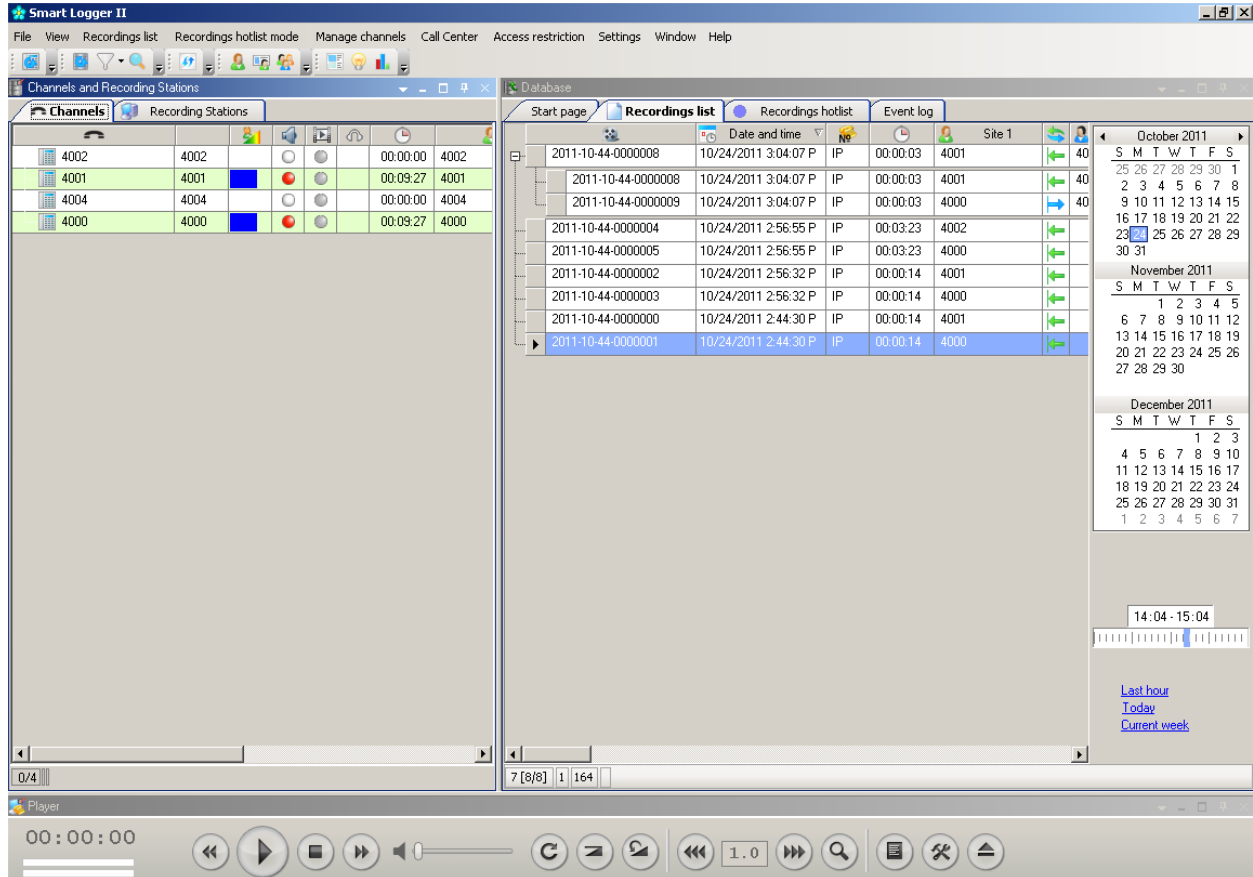
In the same file, the following lines verify successful registration of a recorded endpoint:

```
2011-10-17 19:18:27,085 [Device connect] INFO  avaya_dmcc_source -
(InteractCore.DmccDevice) InitializeDeviceId: DeviceId initialized
successfully for extension '4000'
2011-10-17 19:18:27,242 [Device connect] INFO  avaya_dmcc_source -
(InteractCore.DmccDevice) InitializeCallsMonitoring: Call monitirong
initialized successfully for extension '4000'
2011-10-17 19:18:27,242 [Device connect] INFO  avaya_dmcc_source -
(InteractCore.DmccDevice) StartMonitorMediaEvents: Media monitirong
initialized successfully for extension '4000'
2011-10-17 19:18:27,382 [Device connect] INFO  avaya_dmcc_source -
DmccDevice.RegisterAsTerminal: Terminal successfully registered for extension
'4000'
2011-10-17 19:18:27,398 [Device connect] INFO  avaya_dmcc_source -
DmccDevice.StartPhoneMonitor: Phone monitoring successfully started for
extension '4000'. MonitorId - '14240'
```

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In the **Channels and Recording Stations** pane of the Smart Logger II application, verify that there are no alarms. If all is functioning as expected Smart Logger II application page should appear as in the screen below. Recorded calls are in the right hand pane, and calls in progress, denoted by a red dot next to them are in the left pane. The pane at the bottom of the screen allows playback control of a selected call.

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Click on **Help** ➔ **About** to check the version number of the recorder to ensure that the version is as expected.

9. Conclusion

These Application Notes describe the configuration steps required for the Speech Technology Centre Smart Logger II to successfully interoperate with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services. All functionality and serviceability test cases were completed successfully, and observations made during compliance testing are detailed in **Section 2.2**.

10. Additional References

Product documentation for Avaya products may be found at http://support.avaya.com

> [1] *Avaya Aura® Application Enablement Services Administration and Maintenance Guide – Release 6.1, Issue 2, February 2011*
> [2] *Administering Avaya Aura® Communication Manager – Release 6.0, Issue 6.0, June 2010*

Product documentation for Smart Logger II can be found at http://www.speechpro.com

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