



# *Avaya ANS, SES, CM, and CS1000 Configurations with Cyberdata V3 Paging Server/IP Speakers for Overhead Paging*

Document Part #930442B

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## **Avaya ANS, SES, CM, and CS1000 Configurations with Cyberdata V3 Paging Server/IP Speakers for Overhead Paging 930442B**

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# Revision Information

Revision 930442B, which was released on April 9, 2012, and has the following changes.

- Updates [Figure 1, "The Avaya Notification Solution \(ANS\) Network Connectivity \(Voice and Data\)".](#)
- Updates [Figure 2, "Manager User Profile".](#)
- Updates [Figure 3, "All Notification Scenarios—Details".](#)
- Updates [Figure 4, "All Notification Scenarios—Messages".](#)
- Updates [Figure 5, "All Notification Scenarios—Add New Messages".](#)
- Updates [Figure 6, "All Notification Scenarios—Recipients".](#)
- Updates [Figure 7, "Notification History".](#)
- Updates [Figure 8, "Ceiling Speaker—SIP Configuration".](#)
- Updates [Figure 9, "Ceiling Speaker—SIP Configuration".](#)
- Updates [Figure 10, "Ceiling Speaker—Multicast Configuration".](#)
- Adds [Figure 11, "V3 Paging Server—SIP Configuration".](#)
- Adds [Figure 12, "V3 Paging Server—SIP Configuration".](#)
- Adds [Figure 13, "V3 Paging Server—Multicast Configuration".](#)
- Adds [Figure 14, "Avaya SES Screenshot".](#)
- Adds [Figure 15, "Avaya SES Screenshot".](#)
- Adds [Figure 16, "Avaya SES Screenshot".](#)
- Adds [Figure 17, "Avaya CS1000 Screenshot".](#)
- Adds [Figure 18, "Avaya CS1000 Screenshot".](#)

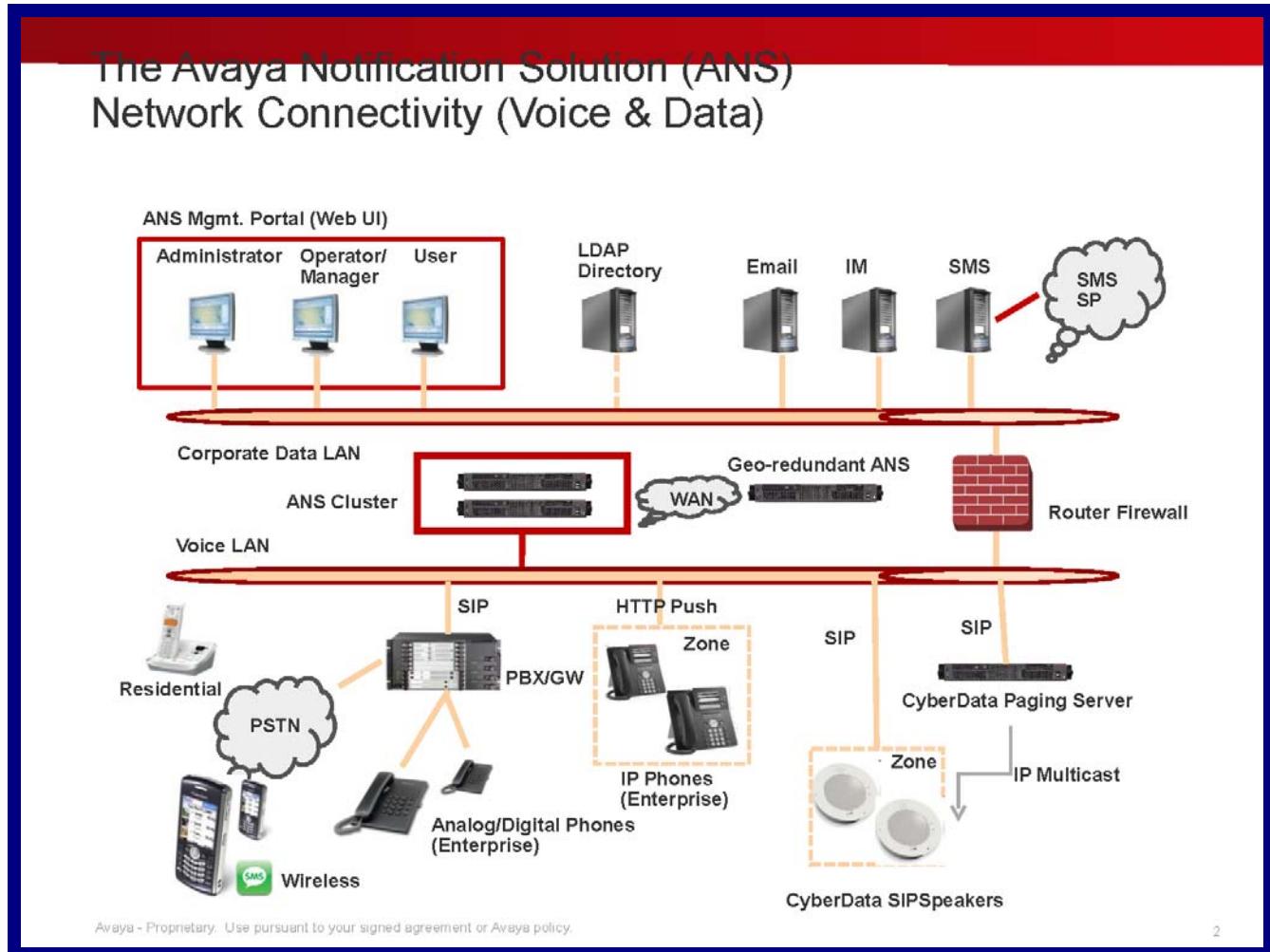
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# 1.0 Network Diagram

Figure 1. The Avaya Notification Solution (ANS) Network Connectivity (Voice and Data)



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## 2.0 ANS Screenshots

**Figure 2. Manager User Profile**

The screenshot shows the 'Manage User Profile' page of the ANS Web Portal. The URL in the address bar is <https://135.122.61.6:8443/ManagementPortal/>. The page title is 'Manage User Profile'. A sidebar on the left contains navigation links for Personal Profile, Notifications, Users and Groups, System Configuration, and System Maintenance. The main content area displays user profile fields: User ID (demo), First Name (Paging Server), Last Name (CyberData), Role (User), Title (empty), Middle Name (empty), Telephone (empty), Security PIN (\*\*\*), and Web Login Password (empty). There is also a 'Change Password' button. Below these fields are sections for User Defined Fields (Portfolio, Region, Location) and Contact Information (Work Phone, Mobile Phone, Home Phone, IP Phone Extension, each with an Urgent Notifications Rule field set to 0).

User ID:	demo	Title:	(empty)															
* First Name:	Paging Server	Middle Name:	(empty)															
Last Name:	CyberData	Telephone:	(empty)															
Role:	User	Security PIN:	***															
<input checked="" type="checkbox"/> Activate		<b>Change Password</b>																
<b>User Defined Fields</b> Portfolio: (empty)    Region: (empty)    Location: (empty)																		
<b>Contact Information</b> <table border="1"> <thead> <tr> <th></th> <th>Contact Information</th> <th>Urgent Notifications Rule(seconds)</th> </tr> </thead> <tbody> <tr> <td>Work Phone</td> <td>70012</td> <td>0</td> </tr> <tr> <td>Mobile Phone</td> <td>(empty)</td> <td>0</td> </tr> <tr> <td>Home Phone</td> <td>(empty)</td> <td>0</td> </tr> <tr> <td>IP Phone Extension</td> <td>(empty)</td> <td>0</td> </tr> </tbody> </table>					Contact Information	Urgent Notifications Rule(seconds)	Work Phone	70012	0	Mobile Phone	(empty)	0	Home Phone	(empty)	0	IP Phone Extension	(empty)	0
	Contact Information	Urgent Notifications Rule(seconds)																
Work Phone	70012	0																
Mobile Phone	(empty)	0																
Home Phone	(empty)	0																
IP Phone Extension	(empty)	0																

**Figure 3. All Notification Scenarios—Details**

The screenshot shows a Firefox browser window with the URL <https://135.122.61.6:8443/ManagementPortal/>. The title bar says "ANS Web Portal". The main content area displays the "All Notification Scenarios" page. On the left is a navigation sidebar with sections: Personal Profile, Notifications (selected), New Notification, Notification History, All Notification Scenarios, Users and Groups, Manage User Profile, Group Profile, Escalation Profile, Role Authorization, CSV Upload, Ldap Mappings, User Defined Fields, System Configuration, Channels, Coordinator Configuration, From Address, Text to Speech Locales, LDAP, WiFi Phone Port Mapping, External Conference Bridg, Message Inbox, System Maintenance, Channel Status, Registered IP Phones, IP Phone Discovery, and System Alarms. The main content area has a header "All Notification Scenarios" with a sub-header "You can manage (add, edit & delete) notification template here". Below this is a summary row: "1 Details" (highlighted in red), "→ 2 Messages", and "→ 3 Recipients". The "Details" section contains fields: "Scenario Name" (one way voice), "Description" (one way voice only), "Priority" (radio buttons for Normal, Urgent, Crisis, with Normal selected), and "Expiration Time" (1 HOURS). At the bottom are "Cancel" and "Next>>" buttons.

**Figure 4. All Notification Scenarios—Messages**

The screenshot shows the ANS Web Portal interface. The main title is "All Notification Scenarios". Below it, a message says "You can manage (add, edit & delete) notification template here". There are three numbered steps: 1 Details, 2 Messages, and 3 Recipients. The "Messages" section is currently active, showing a list titled "Messages" with one item: "VOICE". The list has a total of 1 item. Navigation buttons at the bottom include "<<Previous", "Cancel", and "Next>>". An "Add Message" button is also present. On the left side, there is a sidebar with a tree view of system configurations:

- Personal Profile
- Notifications** (selected)
  - New Notification
  - Notification History
  - All Notification Scenarios
- Users and Groups**
  - Manage User Profile
  - Group Profile
  - Escalation Profile
  - Role Authorization
  - CSV Upload
  - Ldap Mappings
  - User Defined Fields
- System Configuration**
  - Channels
  - Coordinator Configuration
  - From Address
  - Text to Speech Locales
  - LDAP
  - WiFi Phone Port Mapping
  - External Conference Bridg
  - Message Inbox
- System Maintenance**
  - Channel Status
  - Registered IP Phones
  - IP Phone Discovery
  - System Alarms

**Figure 5. All Notification Scenarios—Add New Messages**

The screenshot shows a Firefox browser window with the URL <https://135.122.61.6:8443/ManagementPortal/>. The title bar says "ANS Web Portal". The main content area displays the "All Notification Scenarios" page. On the left, there is a sidebar with navigation links for Personal Profile, Notifications (New Notification, Notification History, All Notification Scenarios), Users and Groups (Manage User Profile, Group Profile, Escalation Profile, Role Authorization, CSV Upload, Ldap Mappings, User Defined Fields), System Configuration (Channels, Coordinator Configuration, From Address, Text to Speech Locales, LDAP, WiFi Phone Port Mapping, External Conference Bridg, Message Inbox), and System Maintenance (Channel Status, Registered IP Phones, IP Phone Discovery, System Alarms). The right side shows the "Add New Message" form under "All Notification Scenarios". The form has tabs for "General" and "Questions". A note at the top says "\* Required Fields: 1. Message Body 2. Use Custom Prompt must be provided". The "General" tab is active. It contains fields for Channel (VOICE), Locale (UNITED STATES - English), Caller Id (3), Display Name (ANS), Retry Count (0), Ring Timeout (seconds) (empty), Authenticate Recipient? (unchecked), and Bypass Human detection? (checked). Below these are sections for "Use Custom Prompt" (containing "this is the avaya notification solution") and "Message Body" (containing "this is a one way only notification test"). There are "Select Wave File" and "Record Through" buttons for both sections.

**Figure 6. All Notification Scenarios—Recipients**

The screenshot shows the ANS Web Portal interface. The left sidebar contains a navigation menu with sections like Notifications, Users and Groups, System Configuration, and System Maintenance. The main content area is titled 'All Notification Scenarios' and displays a scenario named 'one way voice' with a description 'one way voice only'. Below this, there is a 'Users' section with a search bar and a table of user information. The table has columns for User Id, First Name, Middle Name, and Last Name. Several users are listed, including admin, AUSER, carol, demo, and demo0. The user 'demo' is highlighted and has been moved to the 'Selected Users' list on the right side of the screen.

User Id	First Name	Middle Name	Last Name
admin	Admin	AnsAdmin	Ans
AUSER	Anonymous	AnsAdmin	Ans
carol	lastname		
demo	demo		
demo0	demo0		

User Id	First Name
demo	demo

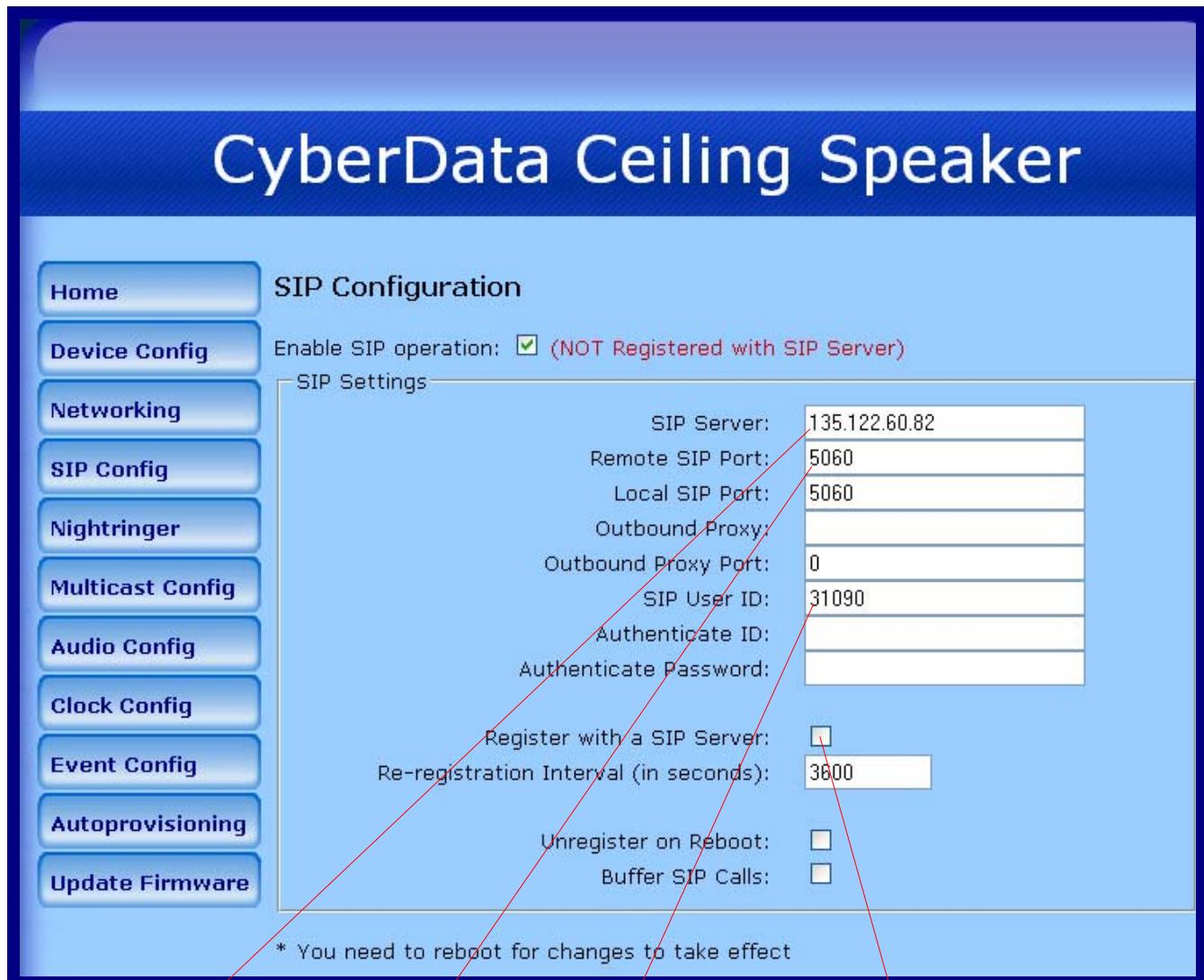
**Figure 7. Notification History**

The screenshot shows a Firefox browser window with the URL <https://135.122.61.6:8443/ManagementPortal/>. The title bar says "ANS Web Portal". The page header features the AVAYA logo. On the left, there's a navigation sidebar with sections like Personal Profile, Notifications (New Notification, Notification History), Users and Groups (Manage User Profile, Group Profile, Escalation Profile, Role Authorization, CSV Upload, Ldap Mappings, User Defined Fields), System Configuration (Channels, Coordinator Configuration, From Address, Text to Speech Locales, LDAP, WiFi Phone Port Mapping, External Conference Bridg), System Maintenance (Message Inbox, Channel Status, Registered IP Phones, IP Phone Discovery, System Alarms), and System Configuration (Channels, Coordinator Configuration, From Address, Text to Speech Locales, LDAP, WiFi Phone Port Mapping, External Conference Bridg). The main content area is titled "Notification History" and contains a message: "You can view detailed notification history & terminate notification request here". It displays "Request Status" with fields: Session Id: 1324513366307, Start Time: 2011-12-21 17:22:46.47, Status: Completed, Originator: admin, Duration(in Seconds): 12, Last Escalation Sequence: 0, Affirmative Response: 0, Request Time: 2011-12-21 17:22:46.363, End Time: 2011-12-21 17:22:58.926, Users Notified: 1, Users Contacted: 0, Users Responded: 0, Total Users in Request: 1. Below this, it says "Notification Details: Notification Process Completed". Under "Conference Status", it says "Conference status is not available for this request". Under "Recipient Status", there's a search bar for "Recipient Name" and a table with columns: Recipient Name, First Name, Last Name, S. The table shows one row for "demo" with "demo" in all three columns. There are navigation buttons (K, <<, >>, >) and a page number indicator (1 - 1 (1)). Under "Point Of Contact Status", there's a table with columns: Point Of Contact, Address, Status, Timestamp.

## 3.0 CyberData SIP Speaker Screenshots

### 3.1 Option 1—Don't Register to IP PBX. Connect to IP PBX through SIP Trunks

**Figure 8. Ceiling Speaker—SIP Configuration**



SES, SM, or CS1000 Node IP

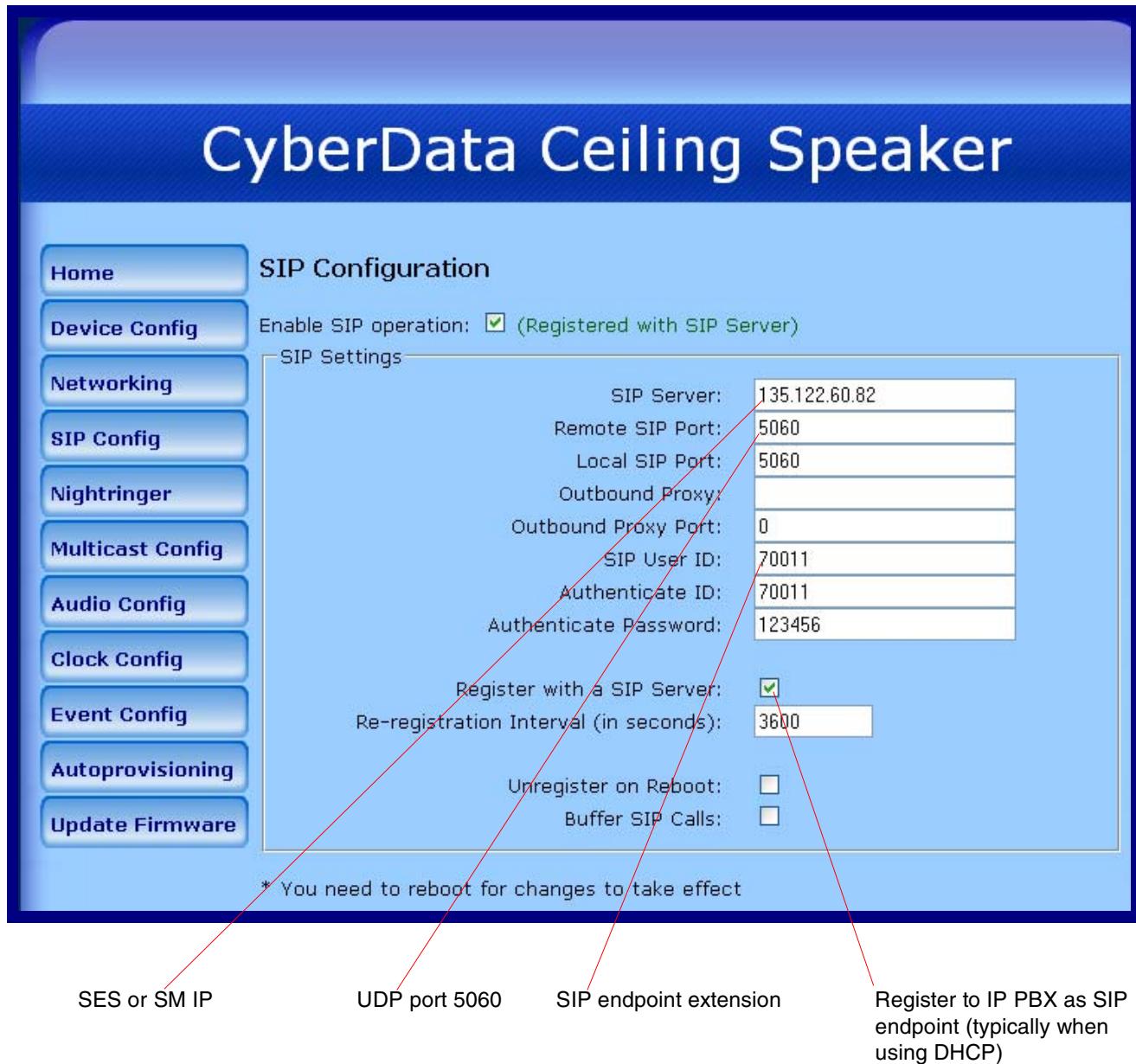
UDP port 5060

IP PBX needs to route this number to SIP trunk.

Don't register to IP PBX.  
Connect to SIP trunks  
(typically when using DHCP)

### 3.2 Option 2—Register to IP PBX. Connect to IP PBX as SIP Endpoints

**Figure 9. Ceiling Speaker—SIP Configuration**



### 3.3 Option 3—Receiving IP Multicast from CyberData Paging Server

Figure 10. Ceiling Speaker—Multicast Configuration

The screenshot shows the 'Multicast Configuration' page of the CyberData Ceiling Speaker web interface. The left sidebar contains navigation links: Home, Device Config, Networking, SIP Config, Nightringer, Multicast Config (which is selected), Audio Config, Clock Config, Event Config, Autoprovisioning, and Update Firmware. The main content area has a title 'Multicast Configuration'. It includes a checkbox 'Enable Multicast operation:' which is checked. Below it is a table titled 'Device Settings' with columns: priority, Address, port, Multicast Group Name, and Buffered. There are two tables of entries:

priority	Address	port	Multicast Group Name	Buffered
9	239.168.3.10	11000	Emergency	<input type="checkbox"/>
8	239.168.3.9	10000	MG8	<input type="checkbox"/>
7	239.168.3.8	9000	MG7	<input type="checkbox"/>
6	239.168.3.7	8000	MG6	<input type="checkbox"/>
5	239.168.3.6	7000	MG5	<input type="checkbox"/>

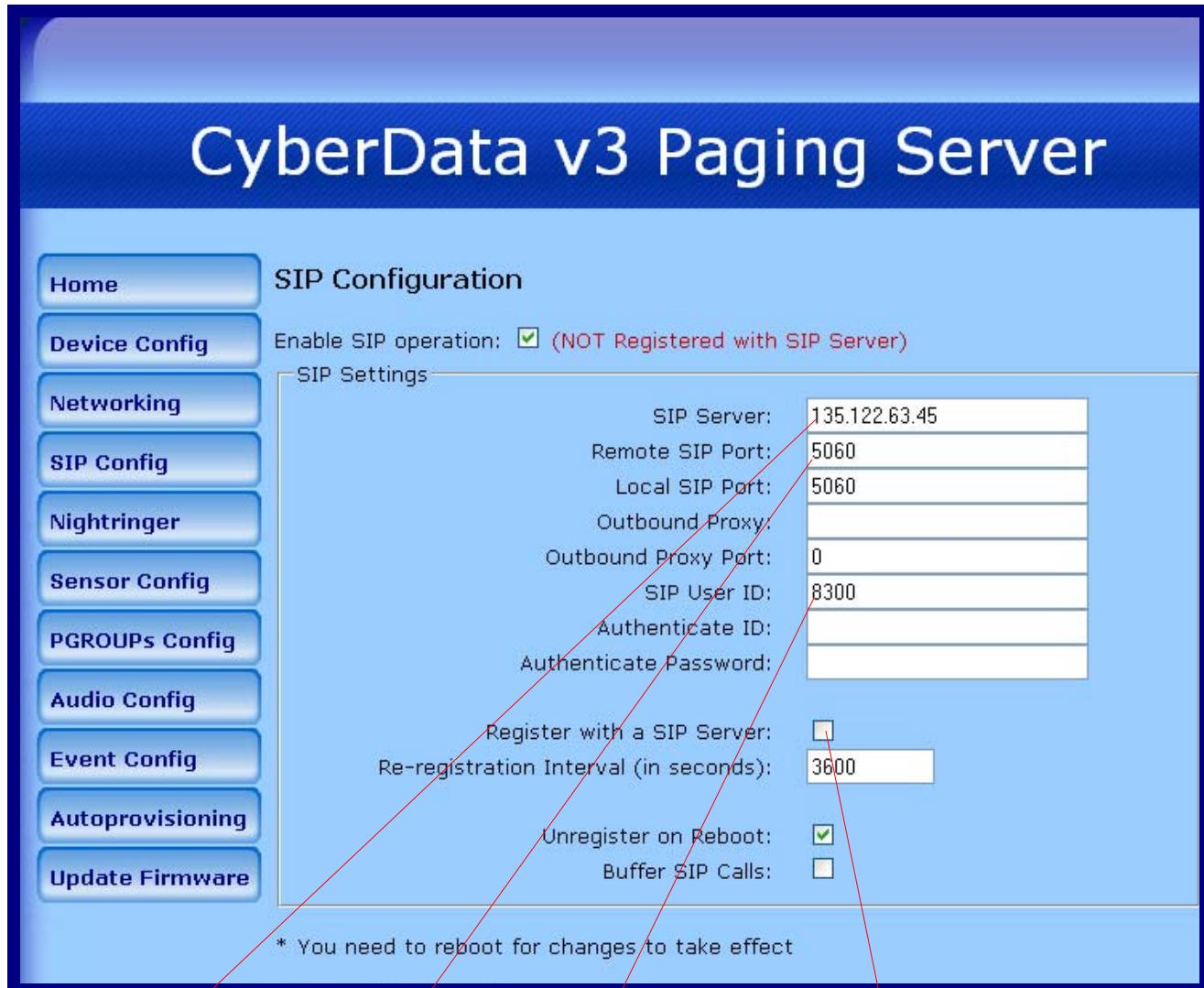
SIP calls are considered priority 4.5	Address	port	Multicast Group Name	Buffered
4	239.168.3.5	6000	MG4	<input type="checkbox"/>
3	239.168.3.4	5000	MG3	<input type="checkbox"/>
2	239.168.3.3	4000	MG2	<input type="checkbox"/>
1	239.168.3.2	3000	MG1	<input type="checkbox"/>
0	239.168.3.1	2000	Background Music	<input type="checkbox"/>

Port range can be from 2000-65535  
Priority 9 is the highest and 0 is the lowest  
A higher priority audio stream will always supercede a lower one  
Priority 9 streams will play at maximum volume

## 4.0 CyberData Paging Server Screenshots

### 4.1 Option 1—Don't Register to IP PBX. Connect to IP PBX through SIP Trunks

Figure 11. V3 Paging Server—SIP Configuration



SES, SM, or CS1000  
Node IP

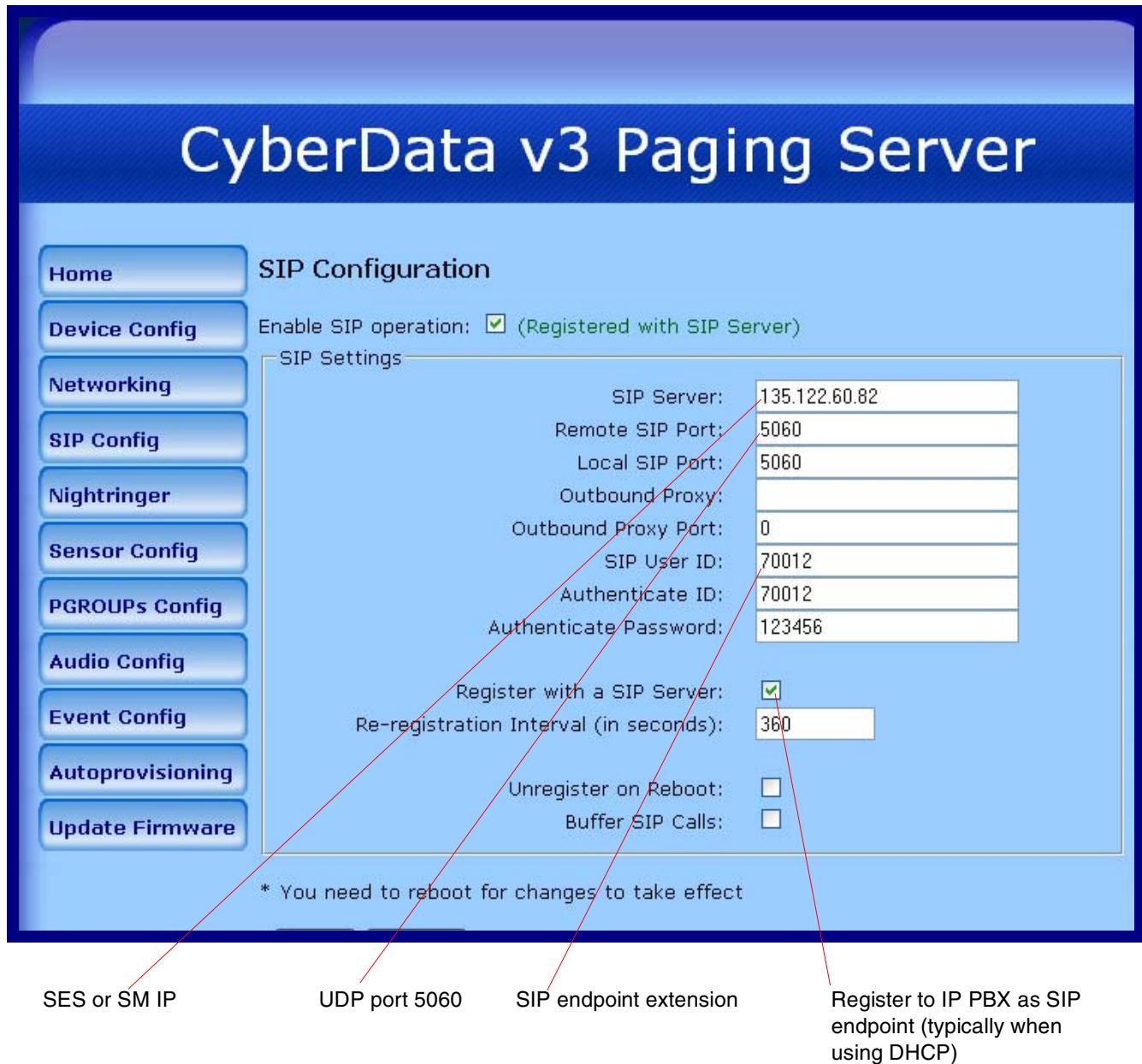
UDP port 5060

IP PBX needs to route this  
number to SIP trunk.

Don't register to IP PBX;  
connect to SIP trunks  
(typically when using DHCP)

## 4.2 Option 2—Register to IP PBX. Connect to IP PBX as SIP Endpoints

**Figure 12. V3 Paging Server—SIP Configuration**



## 4.3 Paging Server Sends IP Multicast to CyberData SIP Speakers

Figure 13. V3 Paging Server—Multicast Configuration

The screenshot shows the 'Multicast Configuration' page of the CyberData v3 Paging Server. On the left is a vertical menu bar with the following items: Home, Device Config (selected), Networking, SIP Config, Nightringer, Sensor Config, PGROUPs Config, Audio Config, Event Config, Autoprovisioning, and Update Firmware. The main content area has a title 'Multicast Configuration'. Below it is a note: 'Bypass DTMF  Bypassing DTMF will result in all calls being relayed to PGROUP 0'. A table titled 'Paging Groups' lists 16 entries, each with a number, address, port, name, TTL, and Lineout status. All entries have a TTL of 255 and a Lineout status of checked.

#	Address	Port	Name	TTL	Lineout
00	239.168.3.10	11000	PagingGroup00	255	<input checked="" type="checkbox"/>
01	234.2.1.2	2002	PagingGroup01	255	<input checked="" type="checkbox"/>
02	234.2.1.3	2004	PagingGroup02	255	<input checked="" type="checkbox"/>
03	234.2.1.4	2006	PagingGroup03	255	<input checked="" type="checkbox"/>
04	234.2.1.5	2008	PagingGroup04	255	<input checked="" type="checkbox"/>
05	234.2.1.6	2010	PagingGroup05	255	<input checked="" type="checkbox"/>
06	234.2.1.7	2012	PagingGroup06	255	<input checked="" type="checkbox"/>
07	234.2.1.8	2014	PagingGroup07	255	<input checked="" type="checkbox"/>
08	234.2.1.9	2016	PagingGroup08	255	<input checked="" type="checkbox"/>
09	234.2.1.10	2018	PagingGroup09	255	<input checked="" type="checkbox"/>
10	234.2.1.11	2020	PagingGroup10	255	<input checked="" type="checkbox"/>
11	234.2.1.12	2022	PagingGroup11	255	<input checked="" type="checkbox"/>
12	234.2.1.13	2024	PagingGroup12	255	<input checked="" type="checkbox"/>
13	234.2.1.14	2026	PagingGroup13	255	<input checked="" type="checkbox"/>
14	234.2.1.15	2028	PagingGroup14	255	<input checked="" type="checkbox"/>
15	234.2.1.16	2030	PagingGroup15	255	<input checked="" type="checkbox"/>
16	234.2.1.17	2032	PagingGroup16	255	<input checked="" type="checkbox"/>

## 5.0 Avaya SES Screenshots

### 5.1 Option 1—When CyberData Does Not Register to SES

**Note** Only required for CM. Not required for CS1000.

**Figure 14. Avaya SES Screenshot**

The screenshot shows the 'List Host Address Map' page in a web browser. The host listed is 135.122.60.82. The table contains several entries, each with an 'Edit' and 'Delete' link. Red arrows point from the labels below the screenshot to specific rows in the table:

- A red arrow points to the first row (Name 31045) with the label "Route this number to CyberData".
- A red arrow points to the second row (Name 31046) with the label "CyberData IP address Port number and transport=udp".

Commands	Name	Commands	Contact
Edit Delete	31045		
Edit Delete	31046		Edit Delete sip:\$(user)@135.27.175.44:5060;transport=udp
Add Another Map		Add Another Contact	Delete Group
Edit Delete	31047		Edit Delete sip:\$(user)@148.147.181.235:5060;transport=udp
Add Another Map		Add Another Contact	Delete Group
Edit Delete	31080		Edit Delete sip:\$(user)@148.147.222.166:5060;transport=udp
Add Another Map		Add Another Contact	Delete Group
Edit Delete	31081		Edit Delete sip:\$(user)@148.147.180.98:5060;transport=udp
Add Another Map		Add Another Contact	Delete Group
Edit Delete	31082		
Edit Delete	97658		
Edit Delete	97659		
		Edit Delete sip:\$(user)@135.122.61.6:5060;transport=udp	
Add Another Map		Add Another Contact	Delete Group
Edit Delete	31083		Edit Delete sip:\$(user)@135.122.6.74:5060;transport=udp
Add Another Map		Add Another Contact	Delete Group
Edit Delete	31086		

## 5.2 Option 2—When CyberData Registers onto SES

**Note** Only required for CM. Not required for CS1000.

**Figure 15. Avaya SES Screenshot**

The screenshot shows the 'Edit User' page in Mozilla Firefox. The URL in the address bar is <https://135.122.60.82/cgi-bin/madmin/do/listusers/edituserinfo?sid=100000061>. The left sidebar menu includes 'Top', 'Setup', 'Users' (selected), 'Add', 'Default Profile', 'Delete', 'Edit', 'List', 'Password', 'Search', 'Manage All Registered Users', 'Search Registered Devices', 'Search Registered Users', 'Address Map Priorities', 'Adjunct Systems', 'Aggregator', 'Certificate Management', 'Conferences', 'Emergency Contacts', 'Export/Import to ProVision', 'Hosts', 'IM logs', and 'Communication Manager'. The main content area is titled 'Edit User' and contains the following form fields:

User ID	70012
Password	*****
Confirm Password*	*****
Host*	135.122.60.82
First Name	CyberData
Last Name	Paging Server
Address 1	
Address 2	
Office	
City	
State	
Country	
Zip	
Survivable Call Processor	none

Fields marked \* are required.

**Update**

A red arrow points from the text 'CyberData uses this user ID to register to SES.' to the 'User ID' field.

CyberData uses this user ID to register to SES.

Figure 16. Avaya SES Screenshot

**Registered Users on 135.122.60.82 - Mozilla Firefox**

A Registered Users on 135.122.60.82 https://135.122.60.82/cgi-bin/madmin/do/registeredentity/process\_search

**AVAYA**

Help Exit

**Top**

- Setup
- Users**

  - Add
  - Default Profile
  - Delete
  - Edit
  - List
  - Password
  - Search
  - Manage All Registered Users
  - Search Registered Devices
  - Search Registered Users
  - Address Map Priorities

- Adjunct Systems
- Aggregator
- Certificate Management
- Conferences

  - Emergency Contacts

- Export/Import to ProVision
- Hosts
- IM logs
- Communication Manager

**Registered Users on 135.122.60.82**

Registered and Provisioned Users | Registered Users | Provisioned Users | Search | Refresh |

Showing 1 to 3 of 3 registered contacts.

Handle and Name	Address	Ex
70010@dev.crm.avaya.com call box, CyberData	sip:70010@135.122.60.53:5060;line=4dd2d0616c5f428 We	
70011@dev.crm.avaya.com CyberData, IP Speaker	sip:70011@135.122.61.46:5060;line=17aa29f0b43f8ad We	
70012@dev.crm.avaya.com Paging Server, CyberData	sip:70012@135.122.60.38:5060;line=880eaf88e45d4ff We	

Apply to all registered users with compatible devices on this Home.  
 Apply to all registered users with compatible devices on this page.

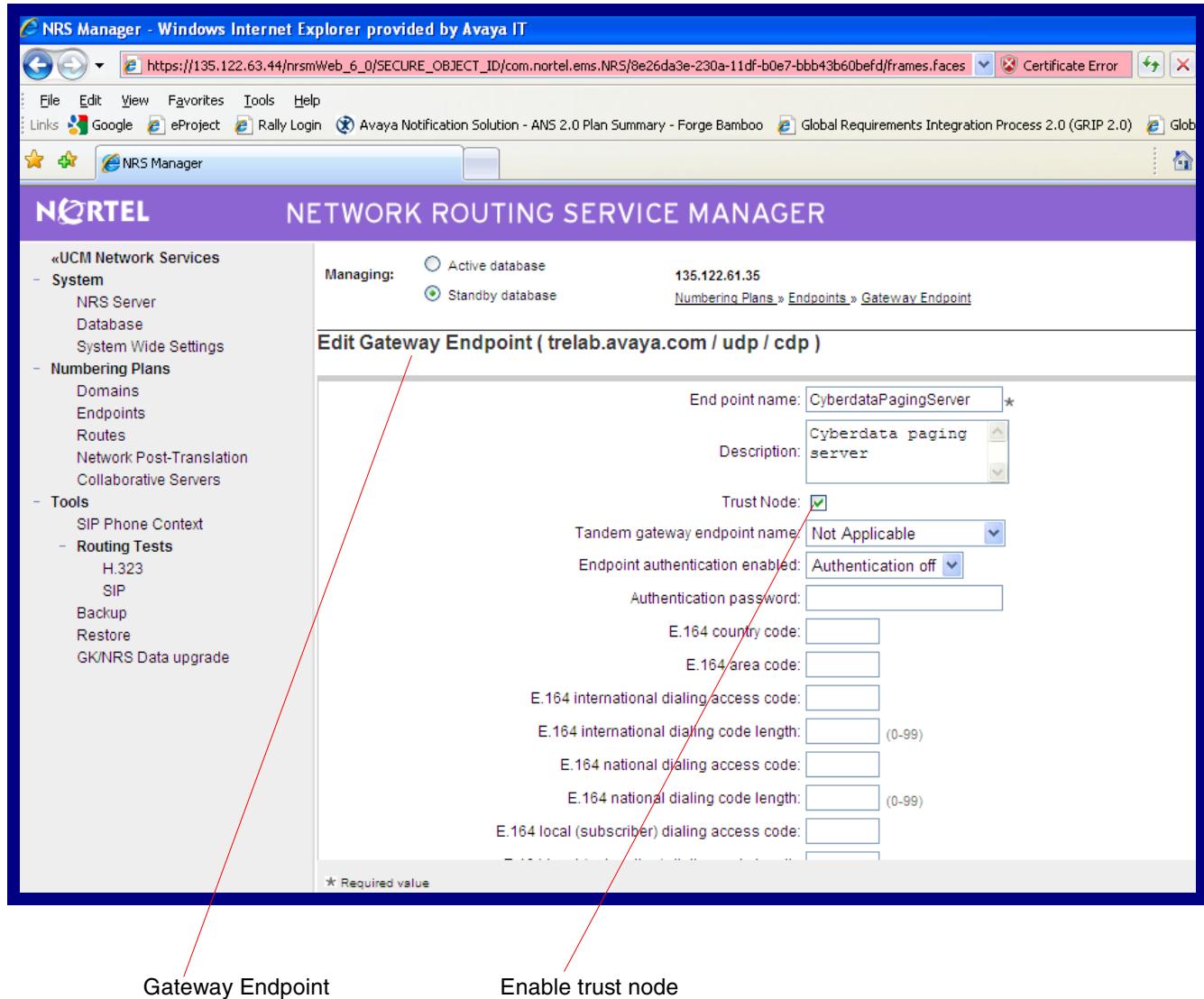
Task:

CyberData is registered to SES.

## 6.0 Avaya CS1000 Screenshots

### 6.1 We only support the SIP Trunk to CyberData Without Registrations!

**Figure 17. Avaya CS1000 Screenshot**



**Figure 18. Avaya CS1000 Screenshot**

The screenshot shows the Avaya NRS Manager interface in Internet Explorer. The title bar reads "NRS Manager - Windows Internet Explorer provided by Avaya IT". The URL in the address bar is [https://135.122.63.44/nrsmWeb\\_6\\_0/SECURE\\_OBJECT\\_ID/com.nortel.ems.NRS/8e26da3e-230a-11df-b0e7-bbb43b60befd/frames.faces](https://135.122.63.44/nrsmWeb_6_0/SECURE_OBJECT_ID/com.nortel.ems.NRS/8e26da3e-230a-11df-b0e7-bbb43b60befd/frames.faces). The page title is "NETWORK ROUTING SERVICE MANAGER".

The left sidebar menu includes:

- «UCM Network Services
- System
  - NRS Server
  - Database
  - System Wide Settings
- Numbering Plans
  - Domains
  - Endpoints
  - Routes
  - Network Post-Translation
  - Collaborative Servers
- Tools
  - SIP Phone Context
  - Routing Tests
    - H.323
    - SIP
    - Backup
    - Restore
    - GK/NRS Data upgrade

The main content area shows "Managing: Standby database 135.122.61.35 Numbering Plans » Endpoints » Gateway Endpoint". Below this, the "Edit Gateway Endpoint (trelab.avaya.com / udp / cdp)" form is displayed. The form fields include:

- Static endpoint address type: IP version 4
- Static endpoint address: 135.122.60.38
- H.323 support: H.323 not supported
- SIP support: Static SIP endpoint
- SIP Mode: Proxy Mode (selected)
- SIP TCP transport enabled: (unchecked)
- SIP TCP port: 5060
- SIP UDP transport enabled: (checked)
- SIP UDP port: 5060
- SIP TLS transport enabled: (unchecked)
- SIP TLS port: 5061
- Persistent TCP support enabled: (checked)
- End to end security support: (unchecked)
- Network Connection Server enabled: (unchecked)

Annotations with red arrows point to specific fields:

- An arrow points from the label "Static CyberData IP Address" to the "Static endpoint address" field.
- An arrow points from the label "Static SIP endpoint" to the "SIP support" dropdown.
- An arrow points from the label "UDP 5060" to the "SIP UDP port" field.

## 7.0 Contact Information

Contact	CyberData Corporation 3 Justin Court Monterey, CA 93940 USA <a href="http://www.CyberData.net">www.CyberData.net</a> Phone: 800-CYBERDATA (800-292-3732) Fax: 831-373-4193
Sales	Sales 831-373-2601 Extension 334
Technical Support	The fastest way to get technical support for your VoIP product is to submit a VoIP Technical Support form at the following website:  <a href="http://www.cyberdata.net/support/contactsupportvoip.html">http://www.cyberdata.net/support/contactsupportvoip.html</a> Phone: (831) 373-2601, Ext. 333 Email: support@cyberdata.net

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