

Avaya Solution & Interoperability Test Lab

Application Notes for configuring Axis Communications AB AXIS C3003-E Network Horn Speaker with Avaya IP Office Server Edition and IP Office 500 V2 Expansion R9.1 – Issue 1.0

Abstract

These Application Notes describe the configuration steps for provisioning the AXIS C3003-E Network Horn Speaker from Axis Communications AB to interoperate with Avaya IP Office Server Edition and IP Office 500 V2 expansion R9.1.

Readers should pay particular attention to the scope of testing as outlined in **Section 2.1**, as well as observations noted in **Section 2.2** to ensure that their own use cases are adequately covered by this scope and results.

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

1. Introduction

These Application Notes describe the configuration steps for provisioning the AXIS C3003-E Network Horn Speaker from Axis Communications AB to interoperate with Avaya IP Office Server Edition and IP Office 500 V2 expansion R9.1

AXIS C3003-E Network Horn Speaker is an outdoor loudspeaker that provides clear, long-range speech for remote speaking in video surveillance applications. In live video monitoring situations, AXIS C3003-E enables an operator to remotely address people and deter unwanted activity. The loudspeaker can also play a pre-recorded audio file when it is manually or automatically triggered in response to an alarm event.

The unit supports Session Initiation Protocol (SIP) for easy integration with Avaya IP Office and the AXIS C3003-E makes announcements possible from anywhere with network connectivity. It easily integrates with video management software (VMS) that support two-way audio and with Voice over IP (VoIP) telephony systems that use SIP (Session Initiation Protocol).

2. General Test Approach and Test Results

The interoperability compliance testing evaluates the ability of the AXIS C3003-E Network Horn Speaker (Axis Speaker) to receive calls from Avaya Digital, H.323 and SIP desk phones as well as mobile/PSTN endpoints. The speaker is registered to IP Office as a SIP endpoint.

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

Avaya's formal testing and Declaration of Conformity is provided only on the headsets/Smartphones that carry the Avaya brand or logo. Avaya may conduct testing of non-Avaya headset/handset to determine interoperability with Avaya phones. However, Avaya does not conduct the testing of non-Avaya headsets/Smartphones for: Acoustic Pressure, Safety, Hearing Aid Compliance, EMC regulations, or any other tests to ensure conformity with safety, audio quality, long-term reliability or any regulation requirements. As a result, Avaya makes no representations whether a particular non-Avaya headset will work with Avaya's telephones or with a different generation of the same Avaya telephone.

2.1. Interoperability Compliance Testing

The compliance testing included the test scenarios shown below. Note that when applicable, all tests were performed with Avaya SIP phones, H.323 phones Digital phones, and PSTN endpoints.

- Registration of speaker.
- Invalid usernames/passwords for registration.
- Basic calls.
- Codec support.
- Serviceability testing.

2.2. Test Results

All test cases passed successfully with no issues or observations.

2.3. Support

Support from Avaya is available by visiting the website <u>http://support.avaya.com</u> and a list of product documentation can be found in **Section 9** of these Application Notes. Technical support for the AXIS C3003-E Network Horn Speaker product can be obtained as follows:

Axis Communications AB

Tel: +46 46 272 18 00 Fax: +46 46 13 61 30 http://www.axis.com/global/en/learning-and-support

3. Reference Configuration

Figure 1 shows the network topology during compliance testing, an AXIS C3003-E Network Horn Speaker from Axis Communications AB with Avaya IP Office Server Edition.

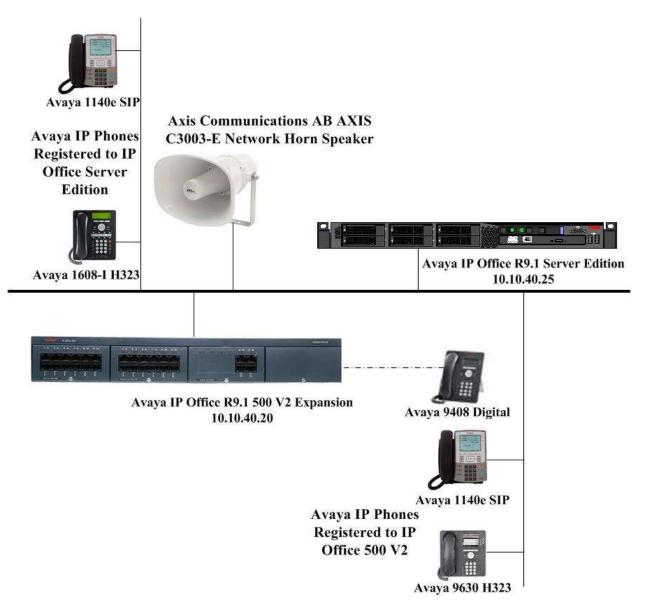


Figure 1: Connection of Axis Communications AB C3003-E Network Horn Speaker with Avaya IP Office Server Edition and IP Office 500 V2 R9.1

4. Equipment and Software Validated

The following equipment and software was used for the compliance test.

Equipment/Software	Version/Release
Avaya IP Office Server Edition running on a virtual platform	R9.1 SP6
Avaya IP Office 500 V2	R9.1 SP6
Avaya IP Office Manager running on Windows 7 PC	R9.1 SP6
Avaya 9630 Deskphone	H.323 Release 6.4014U
Avaya 1140e Deskphone	SIP R04.03.12.00
Avaya 1616-I Deskphone	H323 1608UA1_350B.bin
Avaya 9408 Digital Deskphone	V 2.0
Axis Communications AB AXIS C3003-E Network Horn Speaker	Firmware Version 1.20.1

5. Configure Avaya IP Office

Configuration and verification operations on the Avaya IP Office illustrated in this section were all performed using Avaya IP Office Manager. The information provided in this section describes the configuration of the Avaya IP Office for this solution. It is implied a working system is already in place. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 9**. The configuration operations described in this section can be summarized as follows:

- Launch Avaya IP Office Manager.
- Display LAN Configuration.
- Configure New SIP User.
- Save Configuration.

5.1. Launch Avaya IP Office Manager

From the Avaya IP Office Manager PC, go to **Start** \rightarrow **Programs** \rightarrow **IP Office** \rightarrow **Manager** to launch the Manager application or use the shortcut on the desktop (not shown). A login window will automatically appear, using the appropriate credentials click **OK** to log in.

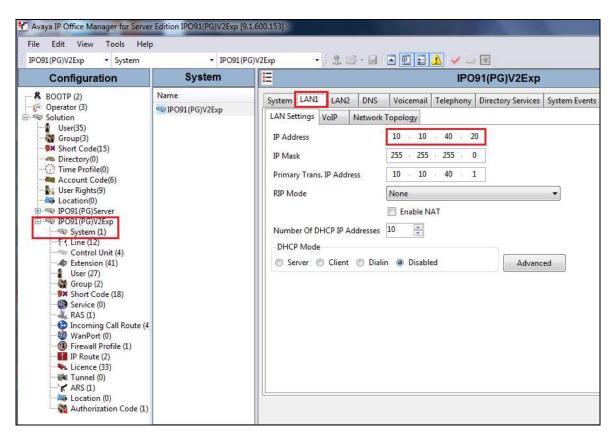
🖌 Avaya	IP Office Mai	nager		1		
File E	dit View	Tools	Help			
				•	• 2	🖻 • 🗟 🖪 🖬 🛕 🗸 🐸 💐
	IP Office	s				
	OOTP (2) berator (3)				Configuration Service Use IP Office : Service User Name Service User Password	r Login IPO91 (PG) Server (Primary System - IPO-Linux-PC) Administrator OK Cancel Help

Click on **Configuration** to open the configuration GUI for both the Server Edition system and the expansion system.

Anye If Office Manager for Se	nar Batture 17092/500/amer 28 1.80	151 (Administration		1.111	
Nie Edit View Tools V Solution -	telp +	11.0	:::::::::::::::::::::::::::::::::::::		
			Server Edition		
Summary	and the second sec	ever Editor Prinary		Open.	1
	45 10-043-30 70-043-30 04-073-88 8 255-0 101K Erighto	2443063-340		Spatism Ratio Spatism Ratio Management Management Discharating Dis	
Description Nume	Addeese Perm	wy Line - Denve Conf	Igured Extensions Configured	Add	
Solution Primary Server (PO1	1/PGjServer 10 10 40 25	34	51 10		
	10 10 40 20 Bett	way 25	41		

5.2. Display LAN Configuration

Once logged in navigate to **System** in the left window and this will display the IP Office system properties in the main window. Select the **LAN1** tab in the main window and within that tab select the **LAN Settings** tab. This displays the **IP Address** information for the Axis speaker to register to in **Section 6.2**.

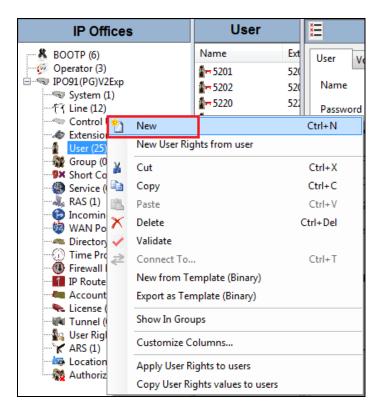


PG; Reviewed: SPOC 8/25/2016 Solution & Interoperability Test Lab Application Notes ©2016 Avaya Inc. All Rights Reserved. 7 of 22 AxisSpeak_IPO91 Selecting the **VoIP** tab displays the **Domain Name** and the **UDP**, **TCP** and **TLS Port** details used in the configuration of the Axis speaker in **Section 6.2**.

Sy	/stem	LAN1	LAN2	DNS	Voicemail	Telephony	Directory Se	ervices	System Events	SMTP	SMDR	Twinning	VCM	Codecs
L	LAN Settings VoIP Network Topology													
	I H323 Gatekeeper Enable													
	Auto-create Extn Auto-create User H323 Remote Extn Enable													
									Remote Call S	Signalling	Port 17	20	×	
	SIP	Trunks	Enable											
llr	SIP	Registra	r Enable	-										
		to-creat									SIP Rer	note Extn E	nable	
	Doma	in Name	2		devcor	nnect.local								
					🔽 UD	Р	UDP Port	5060		Rem	note UDP	Port 5060		*
	Layer 4 Protocol				🔽 тс	р	TCP Port	5060	* *	Rem	note TCP	Port 5060		A V
					🔽 TLS	5	TLS Port	5061	* *	Rem	note TLS P	ort 5061		*
	Challe	enge Exp	iry Time	(secs)	10	A								

5.3. Configure New SIP User

From the left window right click on **Users** and select **New** as shown below, this will allow a new user to be added to IP Office, this new user will be a SIP user.



Solution & Interoperability Test Lab Application Notes ©2016 Avaya Inc. All Rights Reserved. Within the **User** tab at the top of the screen, enter a suitable **Name** and **Password** for the user. Add the **Extension** number as shown below.

	Axis Horn 500V2: 5290
User Voicemail DND Short	tCodes Source Numbers Telephony Forwarding Dial In Voice Recording Button Programming
Name	Axis Horn 500V2
Password	••••
Confirm Password	••••
Conference PIN	
Confirm Conference PIN	
Account Status	Enabled 🔹
Full Name	Axis Horn 500V2 ext 5290
Extension	5290
Email Address	
Locale	•
Priority	5
System Phone Rights	None
ACCS Agent Type	None
Profile	Basic User 🗸
	Receptionist
	Enable Softphone
	Enable one-X Portal Services
	Enable one-X TeleCommuter Enable Remote Worker

Navigate to the **Supervisor Settings** tab, enter the **Login Code** for the SIP user and note that this password will be required for the Axis speaker configuration in **Section 6.3**. Click on **OK** to save the configuration.

×							Axis	Horn 5	00V2: 5	290				r 🔁	- 🖭 🛛 🗙	✔ < >
U	ser	Voicem	nail DND	Short	Codes	Source Nur	nbers	Telephor	y Forwa	rding	Dial In	Voice Recording	Button Program	ming	Menu Pro	grammin 🔹 🕨
	Call Se	ttings	Supervisor	Settings	Multi	line Options	Call	Log TUI								
	Login	Code		••••						🔳 F	orce Logi	n				
	Confi	rm Logir	n Code	••••												
	Login	Idle Per	iod (secs)							F	orce Acco	ount Code				
	Monit	tor Grou	р	<none></none>					•	F	orce Auth	norization Code				
	Cover	age Gro	up	<none></none>					•	🔳 Ir	ncoming	Call Bar				
	Status	on No-	Answer	Logged	On (No	o change)			•)utgoing (Call Bar				
										II II	hibit Off	-Switch Forward/T	ransfer			
	Rese	t Longes	st Idle Time								an Intrud					
	A	ll Calls										Intruded				
	⊚ Б	cternal Ir	ncoming								an Trace	Calls				
											eny Auto	Intercom Calls				
	•															4
													ОК		Cancel	Help

Navigate to **Button Programming** and the three call appearance buttons should already be programmed, click on **OK**. If not create the appearance buttons (not shown) and click on **OK**.

12				5280: 52	280*				🖄 -	😬 🗙 🖌 <
User	Voicemail DND	Short Codes	Source Numbers	Telephony	Forwarding	Dial In	Voice Recording	Button Programming	Menu	Programming N
Buttor	Label	Action	Actio	on Data					*	Remove
1		Appearance	a=						Ξ	
2		Appearance	b=							Edit
3		Appearance	c=							Сору
4										Сору
5										Paste
6										
7										
8										
9										
10									_	
11									_	
12									_	
13									_	
14									_	
15									_	
16									_	Display all button
17									_	E bispidy an baccon
18									_	
19									_	
20									_	
21									_	
22									_	
23										
24									*	
								ОК		Cancel Help

On the subsequent screen, ensure that **SIP Extension** is selected and click on **OK** to create the SIP extension along with the new user.

Nould yo	u like a new VoIP extension created with this number
0	None
0	H323 Extension
0	SIP Extension

5.4. Save Configuration

Once all the users and extensions have been created click on the **Save** icon at the top of the screen, which will bring up a new window and click on **OK** to save the new configuration.

Configuration	User	E Door2 5200: 5200	1 · 1 × × · · ·
BOOTP (2) Operator (3) Solution Uve (15) Oroup(3) Short Code(15)	Name Extension	User Vokemail DHD SkettsCodes Secure Humbers Telephony Fermanding Duil In Voke Recording Button Progra Call Settings Supervisor Settings Multi-Sine Options Call Log Tuil Voke Recording Button Progra Losse Calls	nming Menu Programmin + 1 +
Directory(0) Time Prolite(0) Account Code(0) Loadin(0) Doer Kight(0) Loadin(0) Doer Kight(0) Doer Kight(0) Doer Kight(0) Settern (1) Control User (2) Control User (2) Director(2) Director(3) Di	Select 10 Office (7) POIls (POI/V26)	Change RebootTime Uncoming Cutgoing Error Progress Mode + 12566 OK Centrel Help	
Authorization (0)	In Nolise In Remote Manager In SIP 3221 5221	* <u>C</u>	Carrie Hebro

6. Configure AXIS C3003-E Network Horn Speaker

The configuration of the Axis speaker uses a web interface.

Note: The speaker obtains its IP address using DCHP and this was the way in which an IP address was given to the device during compliance testing.

Open a web session to the IP address of the Axis speaker, enter the proper credentials and click on **OK**.

File Edit View Favorites Tools Help	
	Windows Security
	The server 10.10.40.205 is asking for your user name and password. The server reports that it is from AXIS_ACCC8E012A16.
	root
	Remember my credentials
	OK Cancel

Please refer to Axis Communications documentation listed in **Section 9** of these Application Notes for further information about the Axis speaker configuration. The following sections cover specific settings concerning SIP and the connection to IP Office.

6.1. Audio Settings

Although the audio settings are not relevant to the SIP connection with IP Office it is important as it governs the volume from the speaker and so it is shown below how to adjust this under Audio \rightarrow Audio Settings.

AXIS	AXIS C3003-E N	etwork Speaker Setup Help
▶ Basic Setup	Audio Settir	ngs 🕜
1	Auto Speaker Test	
 Audio Audio Settings 	Test	Status: The Auto Speaker Test must be calibrated before use.
Audio Clips	Calibrate Auto Spea	aker Test
▶ VoIP	Calibrate	Status: The Auto Speaker Test must be calibrated before use.
	Audio Channels	
Events	Audio mode:	Simplex - Speaker only 🗸
Languages	Audio Output	
Languages	Output gain:	
System Options		
About		Save Reset

6.2. Configure SIP Settings

Click on VoIP \rightarrow SIP Settings in the left window, in the main window ensure that Enable SIP is ticked under SIP Settings and Allow incoming SIP calls under Incoming SIP Calls. Under Port Settings select the SIP ports that are to be used and click on Save once all is configured correctly.

AXIS A	XIS C3003-E Network Speaker	Setup Help
▶ Basic Setup	SIP Settings	0
	SIP Settings	
Audio	☑ Enable SIP	
• VoIP	Incoming SIP Calls	
Overview	Allow incoming SIP calls	
SIP Settings Account Settings	Port Settings	
DTMF Settings	SIP port: 5060	
Events	SIP TLS port: 5061	
- Evenes	NAT Traversal	
Languages	Enable ICE	
• System Options	Enable STUN	
About	Enable TURN	
	Save Reset	

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6.3. Configure Account

Click on **Account Settings** under **VoIP** in the left window. Click on the **Add** button in the main window.

	IS C3003	-E Network Speak	er		Setup Help
▶ Basic Setup	Account Settings				0
▶ Audio	Name	SIP address	Transport	Default	Reg. status
 VoIP Overview SIP Settings Account Settings DTMF Settings 					
• Events					
Languages					\sim
System Options	Add	Modify Remove			
About	Test SIP Call				
		from the selected SIP account to the ss: sip(s):extension@domain	e specified SIP ad Test call	dress.	

Enter the following details under the **General** tab:

- Name: Enter a suitable name for the SIP account.
- User ID: Enter the SIP user number configured in Section 5.3.
- **Password**: Enter the password for the SIP user created in Section 5.3.
- **Caller ID**: This should be the extension number created in **Section 5.3**.
- **Domain Name**: The domain as per **Section 5.2**, the IP Office telephony domain.
- **Registrar address**: The IP address of the IP Office, as per Section 5.2.
- **Transport mode** This can be UDP, **TCP** or TLS, all three protocols were tested and work correctly with IP Office.

Click on **OK** to save the configuration.

Modify Ac	count	0
Account Inform	ation	
Name:	500V2 Ext	
Default account	(Note that only one account can be the default account.)	
Account Creden	tials	
User ID:	5290	
Use User ID as	Authentication ID	
Authentication ID:	5290	
Password:	••••	
Caller ID:	5290	
SIP Server Setti	ings	
Domain name:	devconnect.local	
Registrar address:	10.10.40.20	
Transport Settin	igs	
Enable SIPS		
Transport mode:	TCP V	
Allow port upda	te messages through MWI	
Proxy Settings		
Address	Username	† ↓
Add Account Status		_
Account Status		
	OK Cancel	

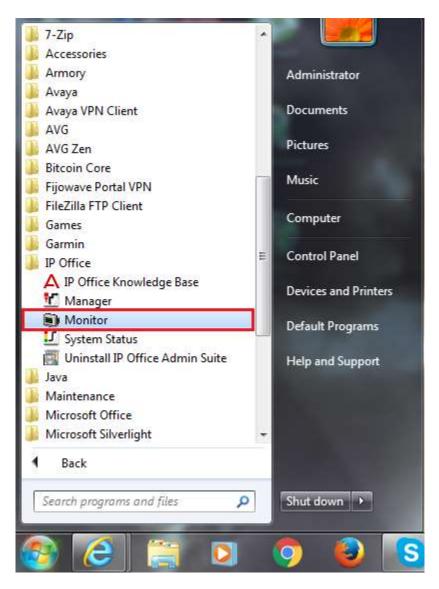
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7. Verification Steps

Making a call to the Axis speaker and hearing voice is the ultimate verification that the product works and is connected and configured correctly. The steps below can also be taken to ensure that the Axis speaker is registered correctly with IP Office and some monitoring tips to see that this is the case.

7.1. Verify Registration from IP Office

Open IP Office Monitor as shown below.



Once connected to the desired IP Office information on SIP calls and registrations will be shown (as long as the correct filter is applied for SIP messaging (not shown)). Below is an example of a message being displayed when a call is made from IP Office **Digital Ext 5201** to the speaker extension **5290**.

Avaya IP Office SysM	Ionitor - [STOPPED] Monitoring 10.10.40.20 (IPO91(PG)V2Exp (Server Edition(E))); Log Settings - C:\Users\\sysmonitorsettings.ini
File Edit View Filte	ers Status Help
601342945mS SIP C	all Tx: phone
	INVITE sip:5290@10.10.40.205;transport=TCP;ob SIP/2.0
	Via: SIP/2.0/TCP 10.10.40.20:5060;rport;branch=z9hG4bK97d2d6273dad5e12d4683d2614b4bcb0
	From: "Digital Ext 5201" <sip:5201@devconnect.local>;tag=12901157f4ba6193</sip:5201@devconnect.local>
	To: <sip:5290@devconnect.local;transport=tcp;ob> Call-ID: 27db75a754b7b1b4204ac844bdd459b0</sip:5290@devconnect.local;transport=tcp;ob>
	Call-ID: 2/db/5a/54b/bib4204ac844bdd459b0 CSeg: 1788984493 INVITE
	CSEq: 1768904495 INVIIE Contact: "Digital Ext 5201" <sip:5201@10.10.40.20:5060;transport=tcp></sip:5201@10.10.40.20:5060;transport=tcp>
	Max-Forwards: 70
	Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, INFO, REFER, NOTIFY, SUBSCRIBE, REGISTER, PUBLISH, UPDATE
	Supported: timer,100rel
	User-Agent: IP Office 9.1.6.0 build 153
	P-Asserted-Identity: "Digital Ext 5201" <sip:5201@10.10.40.20:5060></sip:5201@10.10.40.20:5060>
	Content-Type: application/sdp
	Content-Length: 320
	v=0
	o=UserA 670962484 1343193693 IN IP4 10.10.40.20
	s=Session SDP
	c=IN IP4 10.10.40.20
	m=audio 49152 RTP/AVP 4 9 0 8 18 101
	a=rtpmap:4 G723/8000
	a=rtpmap:9 G722/8000 a=rtpmap:0 PCMU/8000
	a=rtpmap:8 PCMA/8000
	a=rtpmap:18 G729/8000
	a=fmtp:18 annexb=no
	a=rtpmap:101 telephone-event/8000
	a=fmtp:101 0-15
601342945mS SIP T:	x: TCP 10.10.40.20:5060 -> 10.10.40.205:39202
	INVITE sip:5290@10.10.40.205;transport=TCP;ob SIP/2.0
	Via: SIP/2.0/TCP 10.10.40.20:5060;rport;branch=z9hG4bK97d2d6273dad5e12d4683d2614b4bcb0
	From: "Digital Ext 5201" <sip:5201@devconnect.local>;tag=12901157f4ba6193</sip:5201@devconnect.local>
	To: <sip:5290@devconnect.local;transport=tcp;ob></sip:5290@devconnect.local;transport=tcp;ob>
	Call-ID: 27db75a754b7b1b4204ac844bdd459b0
	CSeg: 1788984493 INVITE
	Contact: "Digital Ext 5201" <sip:5201@10.10.40.20:5060;transport=tcp></sip:5201@10.10.40.20:5060;transport=tcp>
	Max-Forwards: 70
	Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, INFO, REFER, NOTIFY, SUBSCRIBE, REGISTER, PUBLISH, UPDATE Supported: timer, 100rel
	Supported: timer,100re1 User-Agent: IP Office 9.1.6.0 build 153
	User-Agent: 1P Office 9.1.6.0 build 153 P-Asserted-Identity: "Digital Ext 5201" <sip:5201@10.10.40.20:5060></sip:5201@10.10.40.20:5060>
	Content-Type: application/sdp
	concent-rype, approacion/sup

7.2. Verify Registration from AXIS C3003-E Network Horn Speaker

Log in to the speaker as per Section 6. Navigate to VoIP \rightarrow Account Settings in the left window and the registration information should be displayed in the main window as shown below. The green lights show a successful registration of 5290. Test call can be made from each account to a specific phone number using the Test SIP Call at the bottom of the screen.

	XIS C3003-E I	Network Speake	r		Setup	lelp
▶ Basic Setup	Account Settings					0
-	Name	SIP address	Transport	Default	Reg. status	
Audio	500V2 Ext (5290)	5290 <sip:5290@devconnect.local ></sip:5290@devconnect.local 	тср	0		\sim
 VoIP Overview SIP Settings Account Settings DTMF Settings 						
Events						
Languages						\sim
• System Options	Add Modi	fy Remove				
About	Test SIP Call					
	Make a test call from th Enter SIP address: sip(e selected SIP account to the sp s):extension@domain Te	ecified SIP ad	ldress.		

If there is an issue with a call to the Axis speaker then there are logs that can be accessed that may show some further information on where the issue may lie. Navigate to **System Options** \rightarrow **Support** \rightarrow **Logs & Reports** in the left window and from the main window select **View Server Report** under the **Reports** section also the System Log is available as shown below.

AXIS AX	IS C3003-E Network Speaker Setup Help				
▶ Basic Setup	Logs & Reports				
▶ Audio	The log files and reports may prove useful when troubleshooting a problem or when contacting the Axis support web.				
	Note: Depending on your connection, these pages may take a while to load.				
▶ VoIP	Logs				
• Events	System Log System log information.				
Languages	Access Log Access log information.				
 System Options 	Reports				
 Security Date & Time 	View Server Report Important information about the server's status.				
 Network Ports & Devices 	Download Server Report				
Maintenance Support Support Overview	Parameter List The unit's parameters and their current settings.				
System Overview	Connection List Connection list information.				
Advanced	Crash Report Detailed information about the server's internal status. This report may contain sensitive information. It may take several minutes to download this report, please wait for the download to finish.				
About	For more information, please read Axis Privacy statement.				

8. Conclusion

These Application Notes describe the configuration steps for provisioning the AXIS C3003-E Network Horn Speaker from Axis Communications AB to interoperate with Avaya IP Office Server Edition and IP Office 500 V2 expansion R9.1. Please refer to **Section 2.2** for test results and observations.

9. Additional References

This section references documentation relevant to these Application Notes. The Avaya product documentation is available at <u>http://support.avaya.com</u> where the following documents can be obtained.

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

- [1] Avaya IP Office R9.1 Manager 10.1, Document Number 15-601011
- [2] Avaya IP Office R9.1 Doc library

Technical information for the AXIS C3003-E Network Horn Speaker can be obtained from: **Axis Communications AB**

Tel: +46 46 272 18 00 Fax: +46 46 13 61 30 http://www.axis.com/global/en/learning-and-support

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