

Avaya Solution & Interoperability Test Lab

Application Notes for Talkaphone VOIP-500 Series and VOIP-600 Series IP Call Stations with Avaya Aura® Session Manager and Avaya Aura® Communication Manager -Issue 1.0

Abstract

These Application Notes describe the configuration steps required to integrate the Talkaphone VOIP-500 Series and VOIP-600 Series IP Call Stations with Avaya Aura® Session Manager and Avaya Aura® Communication Manager. Talkaphone VOIP-500 Series and VOIP-600 Series IP Call Stations registered with Avaya Aura® Session Manager via SIP. Although not explicitly tested, these Application Notes would also apply to the Talkaphone Wide-Area Emergency Broadcast System (WEBS®) Series Devices, which leverage the same electronics and firmware with a similar subset of features (e.g. paging only with one-way communication) as the VOIP-500 Series and VOIP-600 Series Phones but differ in form factor and packaging.

Readers should pay attention to **Section 2**, in particular the scope of testing as outlined in **Section 2.1** as well as the 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 required to integrate the Talkaphone VOIP-500 Series and VOIP-600 Series IP Call Stations with Avaya Aura® Session Manager and Avaya Aura® Communication Manager. Talkaphone VOIP-500 Series and VOIP-600 Series IP Call Stations registered with Avaya Aura® Session Manager via SIP. Although not explicitly tested, these Application Notes would also apply to the Talkaphone Wide-Area Emergency Broadcast System (WEBS®) Series Devices, which leverage the same electronics and firmware with a similar subset of features (e.g. paging only with one-way communication) as the VOIP-500 Series and VOIP-600 Series Phones but differ in form factor and packaging.

2. General Test Approach and Test Results

The interoperability compliance test included feature and serviceability testing. The feature testing focused on establishing calls between Talkaphone VOIP-500 Series and VOIP-600 Series IP Call Stations, Avaya SIP and H.323 telephones, and the PSTN, and exercising basic telephony features, such as hold, mute, transfer, and conference, from the Avaya IP phones. Additional telephony features, such as call forward and call coverage, were also verified.

The serviceability testing focused on verifying that the Talkaphone VOIP-500 Series and VOIP-600 Series IP Call Stations come back into service after re-connecting the Ethernet cable or rebooting the IP Call Station.

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

2.1. Interoperability Compliance Testing

Interoperability compliance testing covered the following features and functionality:

- SIP registration of Talkaphone IP Call Station with Session Manager.
- Inbound and outbound calls between Talkaphone IP Call Station and Avaya SIP and H.323 telephones with Direct IP Media (Shuffling) enabled and disabled.
- Inbound and outbound calls between the Talkaphone IP Call Station and the PSTN.
- G.711 and G.729 codec support.
- Proper recognition of DTMF tones.
- Basic telephony features, including hold, mute, redial, transfer, and 3-way conference, initiated from the Avaya IP phone.
- Use of paging, speed-dial buttons, and number lists on the Talkaphone IP Call Station.
- Proper system recovery after a restart of the Talkaphone IP Call Station and loss of IP connectivity.

2.2. Test Results

All test cases passed with the following observation(s):

- Emergency calls cannot be terminated from the Talkaphone VOIP-500 Series and VOIP-600 Series IP Call Stations. The calls can only be disconnected by the destination phone or upon expiration of the Call Conversation Timer. The Talkaphone VOIP-500 Series and VOIP-600 Series IP Call Stations dial a list of programmed numbers in a round-robin fashion. If the first number in the list does not answer (i.e., Busy, Out of Order, Invalid number), it will call the next number in line and will keep doing so until the destination answers the call or until the 'Call Conversation Timer' expires.
- Dialing Feature Access Codes (FACs) or Feature Name Extensions (FNEs) to activate telephony features are not applicable to Talkaphone IP Call Stations.

2.3. Support

For technical support and information on Talkaphone VOIP-500 Series and VOIP-600 Series IP Call Stations, contact Talkaphone support at:

- Phone: 1-773-539-1100
- Website: <u>http://www.talkaphone.com/content/contact-support</u>

3. Reference Configuration

Figure 1 illustrates a sample configuration with an Avaya SIP-based network that includes the following products:

- Avaya Aura® Communication Manager running in a virtualized environment with a G450 Media Gateway and Avaya Aura® Media Server (not shown).
- Avaya Aura® Session Manager connected to Communication Manager via a SIP trunk and acting as a Registrar/Proxy for SIP telephones.
- Avaya Aura® System Manager used to configure Session Manager.
- Avaya Aura® Messaging serving as the voicemail system.
- Avaya 9600 and 96x1 Series SIP and H.323 Telephones.
- Talkaphone VOIP-500 Series and VOIP-600 Series IP Call Stations.

Talkaphone VOIP-500 Series and VOIP-600 Series IP Call Stations registered with Session Manager and were configured as Off-PBX Stations (OPS) on Communication Manager.

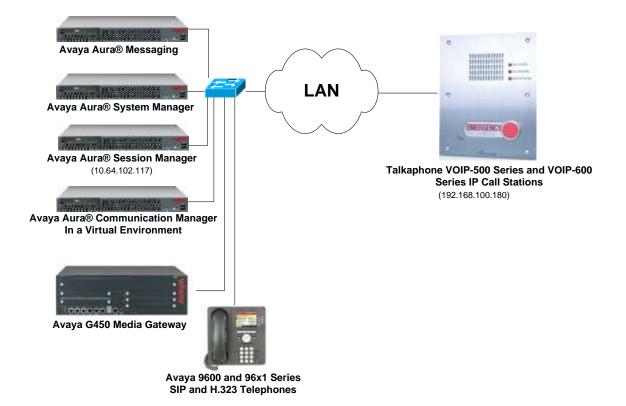


Figure 1: Avaya SIP Network with Talkaphone VOIP-500 Series and VOIP-600 Series IP Call Stations

4. Equipment and Software Validated

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

Equipment/Software	Release/Version
Avaya Aura® Communication Manager in a Virtual Environment with an Avaya G450 Media Gateway	7.0 SP 1 (R017x.00.0.441.0 with Patch 22477)
Avaya Aura® Media-Server	7.7.0.226
Avaya Aura® System Manager	7.0 (Build No. 7.0.0.016266-7.0.9.912 Software Update Revision No: 7.0.0.0.3929)
Avaya Aura® Session Manager	7.0.0.700007
Avaya Aura® Messaging	6.3.2 SP 2 Patch 3
Avaya 9600 Series IP Deskphones	S3.250A (H.323)
Avaya 96x1 Series IP Deskphones	7.0.0.39 (SIP)
Talkaphone VOIP-500 Series IP Call Stations	1.0.2.4
Talkaphone VOIP-600 Series IP Call Stations	1.0.2.4

5. Configure Avaya Aura® Communication Manager

This section provides the procedure for configuring Communication Manager. The procedure includes the following areas:

- Verify Communication Manager license
- Administer IP Network Region and IP Codec Set

Use the System Access Terminal (SAT) to configure Communication Manager and log in with the appropriate credentials.

Note: It is assumed that basic configuration of the Communication Manager has already been completed, such as the SIP trunk to Session Manager. The SIP station configuration for the Talkaphone IP Call Stations are configured through Avaya Aura® System Manager in **Section 6.2**.

5.1. Verify License

Using the SAT, verify that the Off-PBX Telephones (OPS) option is enabled on the **system-parameters customer-options** form. The license file installed on the system controls these options. If a required feature is not enabled, contact an authorized Avaya sales representative.

On **Page 1**, verify that the number of OPS stations allowed in the system is sufficient for the number of SIP endpoints that will be deployed.

```
Page 1 of 12
change system-parameters customer-options
                              OPTIONAL FEATURES
    G3 Version: V17
                                               Software Package: Enterprise
      Location: 2
                                                System ID (SID): 1
      Platform: 28
                                                Module ID (MID): 1
                                                            USED
                              Platform Maximum Ports: 6400 22
                                   Maximum Stations: 2400
                                                            7
                            Maximum XMOBILE Stations: 2400 0
                   Maximum Off-PBX Telephones - EC500: 9600 0
                   Maximum Off-PBX Telephones - OPS: 9600 4
                   Maximum Off-PBX Telephones - PBFMC: 9600 0
                   Maximum Off-PBX Telephones - PVFMC: 9600 0
                   Maximum Off-PBX Telephones - SCCAN: 0
                                                            Ο
                       Maximum Survivable Processors: 313
                                                            0
        (NOTE: You must logoff & login to effect the permission changes.)
```

5.2. Administer IP Network Region and IP Codec Set

In the **IP Network Region** form, the **Authoritative Domain** field is configured to match the domain name configured on Session Manager. In this configuration, the domain name is *avaya.com*. By default, **IP-IP Direct Audio** (shuffling) is enabled to allow audio traffic to be sent directly between IP endpoints without using media resources in the Avaya G450 Media Gateway. The **IP Network Region** form also specifies the **IP Codec Set** to be used for calls routed over the SIP trunk to Session Manager.

```
change ip-network-region 1
                                                                     1 of 20
                                                               Page
                              TP NETWORK REGION
 Region: 1
Location: 1
               Authoritative Domain: avaya.com
   Name:
                              Stub Network Region: n
MEDIA PARAMETERS
                              Intra-region IP-IP Direct Audio: yes
     Codec Set: 1
                             Inter-region IP-IP Direct Audio: yes
  UDP Port Min: 2048
                                         IP Audio Hairpinning? n
  UDP Port Max: 3329
DIFFSERV/TOS PARAMETERS
Call Control PHB Value: 46
       Audio PHB Value: 46
       Video PHB Value: 26
802.1P/Q PARAMETERS
Call Control 802.1p Priority: 6
       Audio 802.1p Priority: 6
       Video 802.1p Priority: 5
                                    AUDIO RESOURCE RESERVATION PARAMETERS
H.323 IP ENDPOINTS
                                                       RSVP Enabled? n
 H.323 Link Bounce Recovery? y
Idle Traffic Interval (sec): 20
  Keep-Alive Interval (sec): 5
           Keep-Alive Count: 5
```

In the **IP Codec Set** form, select the audio codec type supported for calls routed over the SIP trunk to the Teo IP phones. The form is accessed via the **change ip-codec-set 1** command. Note that IP codec set '1' was specified in IP Network Region '1' shown above. The default settings of the **IP Codec Set** form are shown below. The Talkaphone IP Call Stations were tested using G.711 and G.729 codecs.

```
change ip-codec-set 1

IP Codec Set

Codec Set: 1

Audio Silence Frames Packet

Codec Suppression Per Pkt Size(ms)

1: G.711MU n 2 20

2:

3:

4:

5:

6:

7:
```

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6. Configure Avaya Aura® Session Manager

This section provides the procedure for configuring Session Manager. The procedures include the following areas:

- Launch System Manager
- Administer SIP User

Note: It is assumed that basic configuration of Session Manager has already been performed. This section will focus on the configuration of a SIP user for the Talkaphone IP Call Station.

6.1. Launch System Manager

Access the System Manager Web interface by using the URL "https://ip-address" in an Internet browser window, where "ip-address" is the IP address of the System Manager server. Log in using the appropriate credentials.

Aura System Manager 7.0	
Recommended access to System Manager is via FQDN. Go to central login for Single Sign-On If IP address access is your only option, then note that authentication will fail in the following cases: • First time login with "admin" account • Expired/Reset passwords Use the "Change Password" hyperlink on this page to change the password manually, and then login.	User ID: Password: Log On Cancel Change Passwo
Also note that single sign-on between servers in the same security domain is not supported when accessing via IP address.	Supported Browsers: Internet Explorer 9.x, 10.x or 11.x or Firefox 36.0, 37.0 and 38.0.

6.2. Administer SIP User

In the subsequent screen after logging in (not shown), select Users \rightarrow User Management \rightarrow Manage Users to display the User Management screen below. Click New to add a user.

AVAVA Aura System Manager 7.0						- tertio	ggel in at lensary 15, 2016 6-17 Mi Flog off admin
Hume Uver Planagement	*						
* User Management	Home / Users / Us	er Managemen	ot / Manage Usors				0
Manage Users							Help 7
Public Contacts							
Shared Addresses	User Man	anonen	67 E				
System Presence ACLs	User Man	agemen	•				
Communication Profile Password	Users						
Policy	141-111	O New	Lington and State	More Actions *			Advanced Search +
	5 Items 🍣 Sho	w Δli					Filter: Enable
	Last Name	First Name	Display Name	Login Name	SJP Handle	Last Login	
	78000	SIP	78000, SIP	78000@avays.com	78000		

6.2.1. Identity

The New User Profile screen is displayed. Enter desired Last Name and First Name. For Login Name, enter "*<ext>@<domain>*", where "*<ext>*" is the desired Talkaphone IP Call Station SIP extension and "*<domain>*" is the applicable SIP domain name from Section 5.2. For Password and Confirm Password, enter the appropriate credentials for System Manager. Retain the default values in the remaining fields.

AVAVA Aurs [®] System Manager 7.0		Last Lagged on at Jamany 25, 2016 6:17 FM FLog off admin
Home User Management	•	
* User Hanagement	, Home / Users / User Management / Manage Users	0
Manage Users		Help 7
Public Contacts	New User Profile	mmit & Continue Commit Cancel
Shared Addresses		
System Presence ACLs	Identity * Communication Profile Membership Contucts	
Communication Profile Password Policy	User Provisioning Rule :	
and a second sec	Identity *	
	* Last Name: Talkaphone	
	Last Name (Latin Translation): Talkaphone	
	* First Name: VOIP	
	First Name (Latin Translation): VOIP	
	Middle Name:	
	Description:	
	Login Name: 78400@avaya.com	
	Authentication Type: Hanc 💟	

6.2.2. Communication Profile

Select the **Communication Profile** tab. For **Communication Profile Password** and **Confirm Password**, enter the desired password for the SIP user to use for registration.

AVAVA Aura System Manager 7.0		Last Laggest on at Jamany 35, 2016 6:17 PM
Home User Hanagement	×	
* User Management	Home / Users / User Hanagement / Hanage Users	0
Manage Users Public Contacts Shared Addresses	New User Profile	Hilp 7 Commit & Continue] Commit Cancel
System Presence ACLs	Identity * Communication Profile Membership Contacts	
Communication Profile Password Policy	Communication Profile = Communication Profile Password: ••••••	

6.2.3. Communication Address

In the **Communication Address** sub-section, click **New** to add a new entry. The **Communication Address** sub-section is updated with additional fields as shown below. For **Type**, retain "Avaya SIP". For **Fully Qualified Address**, enter and select the SIP user extension and domain name to match the login name from **Section 6.2.1**. Click **Add**.

Communication Address 💌				
💿 New 🥖 Edit 💿 Delet				
Туре	Handle	Domain		
No Records found				
<		>		
* Fully Qualified	Type: Avaya SIP Address: 78400 @ a	vaya.com		
		Add Cancel		

6.2.4. Session Manager Profile

Scroll down to check and expand **Session Manager Profile**. For **Primary Session Manager**, **Origination Application Sequence**, **Termination Application Sequence**, and **Home Location**, select the values corresponding to the applicable Session Manager and Communication Manager. Retain the default values in the remaining fields.

Session Manager Profile 💌					
SIP Registration					
* Primary Session Manager		Primary	Secondary	Maximu	m
	Q devcon-sm	5	0	5	
		<		>	
Secondary Session Manager		Primary	Secondary	Maximu	m
	Q				
		<		>	
Survivability Server	Q				
Max. Simultaneous Devices					
Block New Registration When Maximum Registrations Active?					
Application Sequences					
Origination Sequence	DEVCON-CM App Sequence				
Termination Sequence	DEVCON-CM App Sequence				
Call Routing Settings					
* Home Location	Thornton 🗸				
Conference Factory Set	(None)				
Call History Settings					
Enable Centralized Call History?					

6.2.5. CM Endpoint Profile

Scroll down to check and expand **CM Endpoint Profile**. For **System**, select the value corresponding to the applicable Communication Manager. For **Extension**, enter the SIP user extension from **Section 6.2.1**. For **Template**, select *9630SIP_DEFAULT_CM_7_0*. For **Port**, click and select *IP*. Retain the default values in the remaining fields. Click **Commit** to save the configuration (not shown).

CM Endpoint Profile 💌	
* System	devcon-cm
* Profile Type	Endpoint 🗸
Use Existing Endpoints	
* Extension	Q 78400 Endpoint Editor
* Template	9630SIP_DEFAULT_CM_7_0
Set Type	9630SIP
Security Code	
Port	IP
Voice Mail Number	
Preferred Handle	(None)
Calculate Route Pattern	
Sip Trunk	aar
Enhanced Callr-Info display for 1-line phones	
Delete Endpoint on Unassign of Endpoint from User or on Delete User	
Override Endpoint Name and Localized Name	
Allow H.323 and SIP Endpoint Dua Registration	

7. Configure Talkaphone VOIP-500 Series and VOIP-600 Series IP Call Stations

This section covers the configuration of the Talkaphone VOIP-500 Series and VOIP-600 Series IP Call Stations. The following procedures are covered:

- 1. Launching the Web Administration Interface
- 2. Network Configuration
- 3. SIP Configuration
- 4. Configure Audio Settings
- 5. Configure Call Parameters
- 6. Configure Buttons

For more information on configuring other features of the Talkaphone IP Call Stations, refer to [3, 4].

7.1. Launching the Web Administration Interface

The Talkaphone IP Call Stations are pre-configured with the following default values:

- **IP Address:** 192.168.100.180
- Username: admin
- **Password:** admin@123

Ensure that the administration PC and Talkaphone IP Call Station are connected to the LAN. Open a web browser and enter the IP address of the Talkaphone IP Call Station in the URL field. The browser prompts for authentication. Log in with the appropriate credentials.

uthentication	
User Name:	A username and password are being requested by http://192.168.100.180. The site says: "GoAhead"
Password:	OK Cancel

7.2. Network Configuration

To modify the IP network configuration of the Talkaphone IP Call Station, navigate to the **Network** \rightarrow **IP Settings** page. Configure the IP settings so that it conforms to the customer network requirements. Click **Apply** when done.

t- TALKAPHO	NE	Apply	Refresh	Help	Logout
Home Maintenance	IP Settings				
IP Settings SIP Settings VoIP		nnection : matic Configuration mual Configuration			
Devices	Specify network deta		- Manual (Configur	ration" :
Digital Outputs	IP Address	192.168.100.180			
Voice Messages	Subnet Mask	255.255.255.0	1		
Self Diagnostics & Reporting	Default Gateway	192, 168, 100, 1	i i		
Authentication	DNS Server	1521200120012			
Reboot					
	Enter hostname :	VOTO			
	Hostname	VOIP			
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7.3. SIP Configuration

Navigate to **Network** \rightarrow **SIP** Settings to configure the SIP setting of the Talkaphone IP Call Station. Configure the following parameters.

Under Assign a phone number:

Phone Number: Specify the SIP number (e.g., 78400) configured in Section 6.2.

Under Specify SIP Server FQDN/IP Address:

Primary SIP Server	
FQDN/IP Address:	Specify the IP address of the Session Manager
	signaling interface (e.g., 10.64.102.117) or the SIP
	domain (e.g., avaya.com). For the compliance test,
	the Session Manager IP address was used.

Under Enable / disable SIP registration:

 Register: 	Select the checkbox.
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Solution & Interoperability Test Lab Application Notes ©2016 Avaya Inc. All Rights Reserved. Under Specify SIP registrar and Specify outbound proxy:

		1 0
•	Username:	Specify the SIP number of the Talkaphone IP Call
		Station (e.g., 78400).
•	Password:	Specify the SIP password configured in Section
		6.2.2.
•	Primary SIP Server IP Address:	Specify the IP address of the Session Manager
		signaling interface (e.g., 10.64.102.117).
•	Port:	Specify the SIP port (e.g., 5060).

Accept the default values for the remaining fields and click **Apply** when done.

TALKAPHO	JNE		Apply	Refresh	Help	Logou
Home						
Maintenance	SIP Settings					
Network	Device and the second s					
IP Settings	Assign a phone number :					
SIP Settings	Phone Number	78400				
/oP	Specify SIP Server FQDN/IP Address :					
levices	Primary SIP Server FQDN/IP Address	10.64.10	02.117			
Digital Outputs	Secondary SIP Server FQDN/IP Address	voip.loca	al l			
Voice Messages Salf Disassectors & Democtors	Tertiary SIP Server FQDN/IP Address	voip.loca	al .			
Self Diagnostics & Reporting Authentication	Enable / disable SIP registration :					
leboot	Register					
	Specify SIP registrar :					
	Username	78400				
	Password		22 -			
	Primary SIP Server IP Address	10.64.1	02.117]		
	Secondary SIP Server IP Address	1		1		
	Tertiary SIP Server IP Address			i		
		-	-			
	Port	5060		ige: 1024-49		
	Re-registration Time	3600	(Range:	10-14400 sec	conds)	
	Specify outbound proxy :					
	Username	78400				
	Password		2			
	Outbound Proxy 1 IP Address	10.64.1	02.117			
	Outbound Proxy 2 IP Address			1		
	Outbound Proxy 3 IP Address			1		
	Port	5060	(Port Ran	nge: 1024-49	151)	
	Registration status :					
	() Unregistered					

7.4. Configure Audio Settings

Navigate to VoIP \rightarrow Audio Settings to configure the preferred codec, outbound DTMF duration, and microphone and speaker parameters. For the compliance test, the DTMF duration for outgoing calls was set to Custom with Duration of 800 ms. This is required so that a user can navigate through Avaya Aura® Messaging using DTMF tones. In addition, the Speaker Gain can be adjusted to control the volume. All other fields were left at the default values. Click Apply when done.

t- TALKAPHO	NE	Apply	Refresh	Help	Logout			
Home								
Maintenance	Audio Set	tinas						
Network		ingo						
VoIP	Select VoIP o	odec:						
Number Lists	© G.7	11 PCM a-L	aw @ 64kbp	IS				
Phone Settings			 aw @ 64kbp					
Audio Settings	© G.7	29a						
Call Parameters	© G.7	23.1a						
Paging Settings	Enable/disab	le audio p	rocessing	modules				
Devices	VAD/CNG							
Digital Outputs	AEC							
Voice Messages	AGO	:						
Self Diagnostics & Reporting	Jitter Bu	iffer 30 ms						
Authentication	DTMF duratio	n for out	noing calls					
Reboot								
	© 51 r							
	○ 511 ○ 60 r							
	0 102							
	O Cus	tom						
	Dura	tion 800	(Range:	10-1000 n	ns)			
	Configure Lin	e Level O	utout para	meters :				
	Configure Line Level Output parameters : Line Gain 16 👻							
	Configure Sp	eaker/Mic	rophone p	aramet	ers :			
	🔽 Spe	eaker	Speake	er Gain	12 👻			
	V Mic	rophone	Microph	hone Gain	12 👻			
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7.5. Configure Call Parameters

Navigate to VoIP \rightarrow Call Parameters to view and customize any of the call parameters, such as Local Interdigit Timer, which dictates how long to wait before initiating a call after the user dials the digits, or the Call conversation Timer, which specifies how long an emergency call should remain active, unless the far-end drops the call. The following screen shows the default values for the call parameters.

Note: After a number is dialed on the Talkaphone IP Call Station, the **Local Interdigit Timer** must expire before the call is initiated. The minimum value for the **Local Interdigit Timer** is 5 secs.

Home Maintenance	ONE Call Parameters	Ар	oply	Refresh	Help	Logout		
Network VoIP	Enable/disable call progress tones	:						
Number Lists	Enable Obisable							
Phone Settings	Specify key to answer and/or disconnect a call from the Remote Side :							
Audio Settings	To disconnect a call, press	# ke	у 🗸]				
Call Parameters	To answer a call, press	Disab	ble 👻]				
Paging Settings	Enable/disable "Welcome Tone" :							
Devices	Enable Disable							
Digital Outputs	Configure required timers :							
Voice Messages	Provisional Timer	5	(Ran	ige: 5-20 s	econds)			
Self Diagnostics & Reporting	Ringer Timer	5		ige: 1-12 ri				
Authentication	-	_	_	-				
Reboot	Hang-up Timer	0.5	(Ra	nge: 0.5-3	.0 secon	ds)		
	Local Interdigit Timer	5	(Range: 5-20 seconds)					
	Remote Interdigit Timer	5	(Ran	ige: 5-20 s	econds)			
	Configure optional timers :							
	Call conversation Timer	12	(Rar	nge: 1-360	min.)			
	Ringback or Busy Timer	15	(Ran	ge: 1-60 se	econds)			
	Hang-up On Silence Timer	30	(Rar	nge: 10-36	0 second	s)		
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7.6. Configure Buttons

Navigate to **Devices** \rightarrow **Buttons** to verify the appropriate settings. For the compliance test, the **Buttons** were configured as shown below.

Home	
Maintenance	Buttons
VoIP	Castinua Buttan #1 .
Devices	Configure Button #1: Button #1 Mode Always Autodial
Buttons	Call from Number List List 1 🗸
Keypad	Call Priority
Auxiliary Inputs	Network Priority 46 (Range: 0-63)
LEDs	
Auxiliary Outputs	Configure Button #2: Button #2 Mode Hook Switch 👻
Digital Outputs	
Voice Messages	
Self Diagnostics & Reporting	Call Priority 2
Authentication	Network Priority 46 (Range: 0-63)
Reboot	
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8. Verification Steps

This section provides the tests that can be performed to verify proper configuration of the Talkaphone VOIP-500 Series and VOIP-600 Series IP Call Stations with Avaya Aura® Communication Manager and Avaya Aura® Session Manager.

 Verify that the Talkaphone IP Call Station has successfully registered with Session Manager. In System Manager, navigate to Elements → Session Manager → System Status → User Registrations to check the registration status. Alternatively, the SIP Settings screen on the Talkaphone IP Call Station also shows the registration status as shown below.

TALKAPH	ONE		Apply	Refresh	Help	Logo	
Home							
Maintenance	SIP Settings						
letwork	1 2020 M 12						
IP Settings	Assign a phone number :						
SIP Settings	Phone Number	78400					
oIP	Specify SIP Server FQDN/IP Address :	_					
)evices Jigital Outputs	Primary SIP Server FQDN/IP Address 10.64.102.117						
oice Messages	Secondary SIP Server FQDN/IP Address						
elf Diagnostics & Reporting	Tertiary SIP Server FQDN/IP Address						
uthentication	Enable / disable SIP registration :						
leboot	V Register						
	Specify SIP registrar :						
	Username	78400					
	Password						
	Primary SIP Server IP Address	10.64.1					
	Secondary SIP Server IP Address			1			
	Tertiary SIP Server IP Address						
		-	12.02	11 - 12290	10:51		
	Port	5060	(Port Ran	ige: 1024-49	151)		
	Re-registration Time	3600	(Range:	10-14400 se	conds)		
	Specify outbound proxy :						
	Username	78400					
	Password						
	Outbound Proxy 1 IP Address	10.64,1	.64, 102, 117				
	Outbound Proxy 2 IP Address	1					
	Outbound Proxy 3 IP Address			1			
	Port	5060	(Port Rar	nge: 1024-49	9151)		
	Registration status :		1 (Sec. 1997)	Second March	0.000		

2. Verify 2-way audio and proper call termination.

9. Conclusion

These Application Notes have described the administration steps required to integrate the Talkaphone VOIP-500 Series and VOIP-600 Series IP Call Stations with Avaya Aura® Communication Manager and Avaya Aura® Session Manager. Talkaphone IP Call Stations successfully registered with Session Manager and basic telephony features were verified. All test cases passed with observations noted in **Section 2.2**.

10. Additional References

This section references the Avaya and Talksphone documentation relevant to these Application Notes. The following Avaya product documentation is available at <u>support.avaya.com</u>.

- [1] Administering Avaya Aura® Communication Manager, Release 7.0, Issue 1, August 2015, Document Number 03-300509.
- [2] Administering Avaya Aura® Session Manager, Release 7.0, Issue 1, August 2015.

The following Talkaphone documentation may be found at <u>www.talkaphone.com</u>.

- [3] *Talkaphone VOIP-500 Series Phone Configuration and Operation Manual v3.0.2*, Rev 7/31/2012.
- [4] Talkaphone VOIP-600 Series Configuration and Operation Manual v1.0.1, Rev 9/17/2014.

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