

Avaya Solution & Interoperability Test Lab

Application Notes for VTech NG-S3411W Cordless SIP Hospitality Room Phone with Avaya Aura® Communication Manager 10.1 and Avaya Aura® Session Manager 10.1 – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for VTech NG-S3411/NG-S3411W Cordless SIP Hotel Room Phones v3.2.4.5 to interoperate with Avaya Aura® Communication Manager 10.1 and Avaya Aura® Session Manager 10.1. VTech NG-S3411/NG-S3411W hospitality phones register with Avaya Aura® Session Manager as a SIP endpoint.

Readers should pay attention to **Section 2**, in particular the scope of testing as outlined in **Section 2.1** as well as any 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 for VTech NG-S3411/NG-S3411W Cordless SIP Hotel Room Phones to interoperate with Avaya Aura® Communication Manager and Avaya Aura® Session Manager. VTech SIP hospitality phones are available in 1-or 2-line styles with corded and cordless handsets. VTech NG-S3411/NG-S3411W Cordless SIP Hotel Room Phones register to Avaya Aura® Session Manager as a SIP endpoint. Compliance testing used the VTech NG-S3411W 1-line Cordless SIPHotel Room Phone as a representative model. See **Attachment 1** which provides details of VTech NG-S3411W Cordless SIP Hotel Room Phone equivalency to the NG-S3411 SIP Hotel Phone model.

2. General Test Approach and Test Results

The general test approach was to place calls to and from VTech NG-S3411W and exercise basic telephone operations.

As the purpose of these phones is for hotel guest rooms, certain functionality considered to be standard on Avaya endpoints is not supported, and therefore, was not tested. For example, VTech NG-S3411W does not support transfers or conferences. More details on these limitations are described in the Test Results in **Section 2.2**.

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 recommends our customers implement Avaya solutions using appropriate security and encryption capabilities enabled by our products. The testing referenced in these DevConnect Application Notes included the enablement of supported encryption capabilities in the Avaya products. Readers should consult the appropriate Avaya product documentation for further information regarding security and encryption capabilities supported by those Avaya products.

Support for these security and encryption capabilities in any non-Avaya solution component is the responsibility of each individual vendor. Readers should consult the appropriate vendor-supplied product documentation for more information regarding those products.

For the testing associated with these Application Notes, the interface between Avaya systems and VTech NG-S3411W enabled capabilities of TLS/SRTP.

2.1. Interoperability Compliance Testing

The following areas were evaluated in the interoperability compliance test:

- Registration of VTech NG-S3411W to Session Manager.
- Basic call features: Answer, Hold/Resume, Mute/Un-mute, Drop, Message Waiting Indicator, DTMF, Call Pickup, Call Waiting, and Call Forward.
- G.711 and G.729 codec negotiation, and Session Refresh Interval.
- Media (shuffling) enabled and disabled.
- TLS transport and SRTP media encryption.
- Hospitality features: Automatic Wakeup Call and Housekeeping status.
- Serviceability testing to validate recovery from network connectivity loss.

2.2. Test Results

All test cases were executed. The following observations were made during the testing:

- VTech NG-S3411W does not support the following features
 - Call Park/Unpark
 - o Transfer
 - Conference
 - VTech NG-S3411W programmable buttons do not support feature access codes requiring secondary input.
- The VTech G.726 codec payload type of 2 is not supported by Communication Manager. This is acceptable to VTech.
- VTech NG-S3411W does not support SDP negotiation capabilities per (RFC5939) between SRTP and non-SRTP modes so codec sets for the phones must not offer both modes. Employing a separate codec set for the phones' encryption capabilities is a possible alternative to support endpoints that use SDP negotiation in a mixed environment.
- VTech NG-S3411W does not validate the offered identity certificate for Session Manager during TLS handshake. This is a known problem that will be fixed in a future release of VTech NG-S3411W firmware.
- A separate but related observation is that the web administration user interface setting **Only accept trusted certificates** must also be set for VTech NG-S3411W to validate Session Manager identity certificate during TLS session setup. Subsequent access to the web administration's **Trusted Certificates** page will not show that it has been set. This will be fixed in a future release of VTech NG-S3411W firmware.

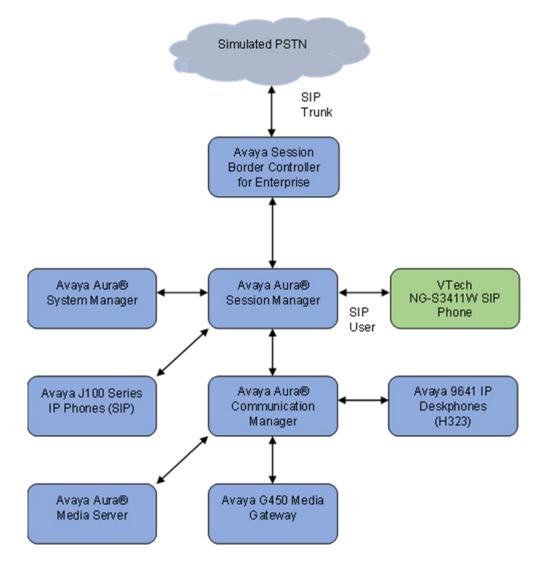
2.3. Support

Technical support for VTech NG-S3411W SIP Hotel Phones can be obtained at:

- Phone: 1 (888) 907-2007
- <u>https://vtechhotelphones.com</u>

3. Reference Configuration

Figure 1 illustrates the test configuration diagram for VTech NG-S3411W integrated with Avaya Aura® Communication Manager and Avaya Aura® System Manager.





4. Equipment and Software Validated

The following equipment and software were used for the compliance test provided:

Equipment/Software	Release/Version
Avaya Aura® Communication Manager running on	10.1.0.2-SP2
Virtual Machine	01.0.974.0-27607
Avaya Aura® System Manager running on Virtual	10.1.0.2 Service Pack 2
Machine	10.1.0.2.0715160
Avaya Aura® Session Manager running on Virtual	10.1.0.2 Service Pack 2
Machine	10.1.0.02.1010215
Avaya Session Border Controller for Enterprise running on Virtual Machine	10.1.1.0-35-21872
Avaya Aura® Media Server running on Virtual Machine	10.1.0.101
Avaya G450 Media Gateway	42.7.0
Avaya 9641G IP DeskPhone	6.8532 (H.323)
Avaya J179 IP Phone	4.0.13.0.6 (SIP)
VTech NG-S3411W Cordless 1-line SIP Hotel Phone	3.2.4.5

5. Configure Avaya Aura® Communication Manager

This section describes the steps for configuring Communication Manager. The procedures include the following areas:

- Verify Communication Manager OPS Licensed Capacity
- Administer IP Network Region
- Administer IP Codec Set

Use the System Access Terminal (SAT) to configure Communication Manager and log in with the appropriate credentials. The configuration steps illustrate field values changed for this reference configuration. Default values were used for all other fields.

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 VTech NG-S3411W is configured through System Manager in **Section 6.2.**

5.1. Verify Communication Manager OPS Licensed Capacity

Using the SAT, verify that the Off-PBX Stations (OPS) and SIP Trunks features are 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.

```
display system-parameters customer-options
                                                                  Page 1 of 12
                                OPTIONAL FEATURES
    G3 Version: V20
                                                  Software Package: Enterprise
      Location: 2
                                                   System ID (SID): 1
      Platform: 28
                                                   Module ID (MID): 1
                                                            USED
                            Platform Maximum Ports: 48000 150
                               Maximum Stations: 150
                                                               115
                          Maximum XMOBILE Stations: 36000 0
                Maximum Off-PBX Telephones - EC500: 150
                                                                 0
                Maximum Off-PBX Telephones - OPS: 150
                                                                62
                                                               0
                Maximum Off-PBX Telephones - PBFMC: 150
                Maximum Off-PBX Telephones - PVFMC: 150
Maximum Off-PBX Telephones - SCCAN: 0
Maximum Survivable Processors: 313
                                                                0
                                                                  0
                                                                  0
        (NOTE: You must logoff & login to effect the permission changes.)
```

5.2. Administer IP Network Region

•

This IP network region is for the signaling group associated with the SIP trunk between Session Manager and Communication Manager. This form also specifies the **IP Codec Set** to be used for calls routed over the SIP trunk to Session Manager. Verify the following values:

- Authoritative Domain: The applicable domain (e.g., *avaya.com*)
 - Codec Set: The codec set number from Section 5.3

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 G450 Media Gateway or Media Server.

```
change ip-network-region 1
                                                                      1 of 20
                                                               Page
                              IP NETWORK REGION
  Region: 1
Location: 1
                Authoritative Domain: avaya.com
   Name: Main
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
```

5.3. Administer IP Codec Set

In the **IP Codec Set** form, select the audio codec type supported for calls routed over the SIP trunk to VTech NG-S3411W. The form is accessed via the **change ip-codec-set 1** command. Note that IP codec set *1* is specified in **IP Network Region** *1* from **Section 5.2**. The form shows the list of codecs tested. Enter values for the following:

- Audio Codec: The audio codecs tested
- Media Encryption: Do not include *none*

Note: Avaya endpoints supporting both RTP/SRTP may be administered in a separate codec set.

```
display ip-codec-set 1
                                                                              Page 1 of
                                                                                              2
                               IP MEDIA PARAMETERS
    Codec Set: 1
AudioSilenceFramesPacketCodecSuppressionPer PktSize(ms)1: G.711MUn2202: G.711An2203: G.729n220
 4:
 5:
 6
 7:
Media Encryption
                                          Encrypted SRTCP: best-effort
 1:1-srtp-aescm128-hmac80
 2:2-srtp-aescm128-hmac32
 3:
 4:
 5:
```

6. Configure Avaya Aura® Session Manager

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

- Launch System Manager
- Administer SIP Users

6.1. Launch System Manager

Access Session Manager Administration web interface by entering http://<ip-address>/SMGR in a web browser, where <ip-address> is the IP address of System Manager. Log in using the appropriate credentials.

ommended access to System Manager is via FQDN.	A
to central login for Single Sign-On	User ID:
address access is your only option, then note that authentication will fail ne following cases:	Password:
First time login with "admin" account Expired/Reset passwords	Log On Cancel
the "Change Password" hyperlink on this page to change the password ually, and then login.	Change Passwo
note that single sign-on between servers in the same security domain is supported when accessing via IP address.	
	Osupported Browsers: Firefox (minimum version 93.0), Chrome (minimum version 91.0) or Edge (minimum version 93.0).
 system is restricted solely to authorized users for legitimate business poses only. The actual or attempted unauthorized access, use, or lification of this system is strictly prohibited. 	
uthorized users are subject to company disciplinary procedures and or inal and civil penalties under state, federal, or other applicable domestic foreign laws.	
use of this system may be monitored and recorded for administrative and urity reasons. Anyone accessing this system expressly consents to such itoring and recording, and is advised that if it reveals possible evidence of inal activity, the evidence of such activity may be provided to law procement officials.	
users must comply with all corporate instructions regarding the protection formation assets.	
urity reasons. Anyone accessing this system expressly consents to such itoring and recording, and is advised that if it reveals possible evidence of inial activity, the evidence of such activity may be provided to law orcement officials.	•

6.2. Administer SIP Users

VTech NG-S3411W is administered as a SIP user on Session Manager by the following steps. This configuration is automatically synchronized with Communication Manager. In Session Manager, select Users \rightarrow User Management \rightarrow Manage Users to display the User Management screen (not shown). Click + New to add a user.

6.2.1. Identity

Enter values for the following required attributes for a new SIP user in the **New User Profile** screen:

- Last Name:
- First Name:
- Login Name:

Enter the last name of the user, e.g., *VTech* Enter the first name of the user, e.g., *NG3411W* Enter <extension>@<sip domain> of the user (e.g., 70124@avaya.com)

	em Manager 10.1	å Users 🗸 🏼 🎤 Ele	ements 🗸 🔅 Service	es ~ Widgets ~	Shortcuts v Search	📕 🔔 🗮 admin
Home	Session Mana	ager User Managen	nent			
U		s옷 / Manage Users		E	Commit & Continue	Help ? ▲ Commit ③ Cancel
	Identity	Communication Profi	le Membership	Contacts		
	Basic Info Address		User Provisioning Rule :	- · ·]	
	LocalizedN	lame	* Last Name :	VTech	Last Name (in Latin alphabet characters):	VTech
			* First Name :	NG3411W	First Name (in Latin alphabet characters):	NG3411W
			* Login Name :	70124@avaya.com	Middle Name :	Middle Name Of User
			Description :	Description Of User	Email Address :	Email Address Of User
			Password :		User Type:	Basic v
>			Confirm Password :		Localized Display Name :	Localized Display Name

6.2.2. Communication Address

Select the Communication Profile tab. Select Communication Address in the left-hand side list and click + New (not shown).

Enter the following attributes for the **Communication Address**:

- Type:
- Fully Qualified Address:

Select Avaya SIP from the drop-down list Enter the extension number (e.g.,70124)

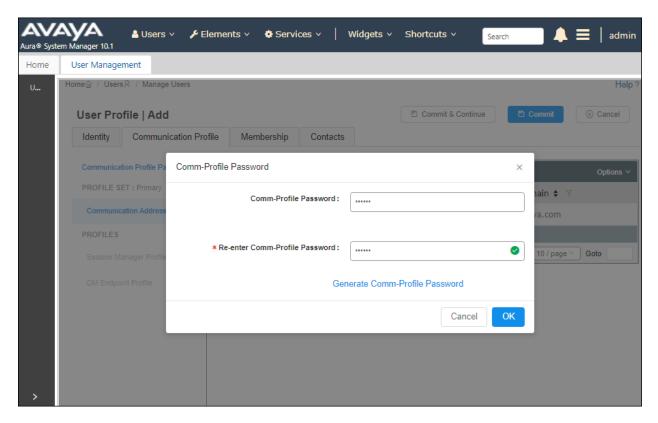
• Domain:

Enter the domain (e.g., *avaya.com*)

User P Identity Commun	ers & / Manage Users rofile Add Communication		Contacts	🖹 Commit & Cont	inue 🗈 O	Commit 🛞 Cance
Identity	Communication	n Profile Membership	Contacts	🖻 Commit & Cont	inue 🗈 C	Commit 🛛 🛞 Cance
Commun		n Profile Membership	Contacts			
		Communication Address	Add/Edit		×	
PROFILE	E SET : Primary				Dor	main 🕈 🛛
Commu	inication Address	* Туре:	Avaya SIP		~	
PROFILE		*Fully Qualified Address :			~	
Session			70124	@ avaya.com		
CM End						
				Cancel	ок	
					_	

6.2.3. Communication Profile Password

Click the **Communication Profile Password** tab and in the **Comm-Profile Password** and **Reenter Comm-Profile Password** fields, enter a numeric password. This will be used to register the device. Click **OK**.



6.2.4. Session Manager Profile

Click on the **Session Manager Profile** slide button. For **Primary Session Manager**, **Origination Sequence**, **Termination Sequence**, and **Home Location** (not shown), select the values corresponding to the applicable Session Manager and Communication Manager. Retain the default values in the remaining fields.

	tem Manager 10.1	elements v 🛛 🔅 Services	V Widgets V	 Shortcuts 	Search	🜲 🗮 admin
Home	User Management					
U	Home / Users / Manage Users					Help ? 🔺
	User Profile Add			Commit & Continue	🗈 Commit	⊗ Cancel
	Identity Communication Pro	ofile Membership (Contacts			
	Communication Profile Password PROFILE SET : Primary V	SIP Registration				
	Communication Address	Primary Session Manager:	sm10	Q		
	PROFILES	Secondary Session				
	Session Manager Profile	Manager:	Start typing	۵		
	CM Endpoint Profile	Survivability Server:	Start typing	Q		
		Max. Simultaneous Devices :	Select	~		- 1
		Block New Registration When Maximum Registrations Active? •				
		Application Seque	nces			
		Origination Sequence:	cm81	~		
>		Termination Sequence :	cm81	~		•

6.2.5. CM Endpoint Profile

Click on the **CM Endpoint Profile** slide button. Fill in the following fields:

- System: Select the relevant Communication Manager SIP Entity (e.g., *cm10*)
- **Profile Type**: Select *Endpoint*
- **Template**: Select *Lhapolin* Select *J179_DEFAULT_CM_10_1*
- Extension: Enter the extension number (e.g., 70124)
- Extension. Enter the extension number (e.g., 70124)

Click on the **Editor** icon in the Extension field to edit Communication Manager settings. Input the appropriate **Coverage Path 1** number (not shown) configured to route unanswered calls to voicemail. Click **Done** to close the Endpoint Editor. Click **Commit**.

	em Manager 10.1	🛓 Users 🗸 🛛 🎤 E	Elements v 🔅 Services v	Widgets v Shortcuts v	× se	earch 💄 🗮 🛛 admin
Home	Session Mana	ger User Manag	ement			
U	Home 🏠 / Users	8 / Manage Users				Help ? 🔺
	User Pro	file Add			🖻 Commit & Continue	E Commit
	Identity	Communication Pr	ofile Membership Cont	acts		
	Communicat	ion Profile Password				
	PROFILE SE	ET : Primary 🗸 🗸	* System :	cm10 ~	* Profile Type :	Endpoint ~
	Communica	ation Address	Use Existing Endpoints :		* Extension :	70124 🖵 🔼
	PROFILES					
	Session Ma	anager Profile 🛛 🚺	* Template :	J179_DEFAULT_CM_10_1 Q	* Set Type :	J179
	CM Endpoi	int Profile	Security Code :	Enter Security Code	Port:	[P Q
			Voice Mail Number:		Preferred Handle :	Select ×
			Calculate Route Pattern :		Sip Trunk :	
			SIP URI :	Select	Delete on Unassign from User	
				Unot	or on Delete User:	-
>			Override Endpoint Name and Localized Name :	2	Allow H.323 and SIP Endpoint Dual Registration :	-

7. Configure VTech NG-S3411/NG-S3411W Cordless SIP Hotel Room Phones

The steps to configure VTech NG-S3411W to integrate with Communication manager are as follows:

- Configure IP Address
- Launch Web Interface
- Configure SIP Account
- Install CA Certificate
- Modify Codec Settings

7.1. Configure IP Address

VTech NG-S3411W is configured for DHCP as a factory default. The following steps provide network connectivity and determine the phone IP address for use in launching administration detailed in **Section 7.2**:

- Connect the NET port of VTech NG-S3411W to a Power over Ethernet (PoE) switch
- Determine the assigned IP address. Use the built-in voice menu which will read out the IP address. The voice menu is accessed by pressing **SPEAKER** * * * *. For more information, refer to VTech NG-S3411W user manual obtained at <u>http://vtechhotelphones.com.</u>

7.2. Launch Web Interface

The phone administration is done though a web interface. To access web administration, invoke the web login page using the **IP address** obtained from **Section 7.1** using the URL **https://<IP address**>. The login prompt is displayed.

L	.ogin
Username:	
Password:	
Login Ca	ancel

Enter the appropriate **Username** and **Password.** Once logged in, the default settings display. The status for VTech NG-S3411W is shown.

vtech	Hotel	Phones		
STATUS	STATUS	SYSTEM	NETWORK	SERVICING
System Status				
Handset Status	General			
	Model:	NG-S3	411W	
	Serial Number:	739000	01329	
	MAC Address:	A4:97:	5C:95:F3:87	
	Network Type:	Ethern	et	
	Network Status:	Connec	ted	
	Boot Version:	1.30		
	Software Version:	3.2.4.5	;	
	V-Series:	2.10.6	0.8d99	
	Hardware Version:	HW1.1		
	Hardware Revision:	02		
	EMC Version:	0		
	Config Version:	0.00.0	D	
	Network Time Settings:	us.poo	l.ntp.org	
	Wifi Country Code	15		
	Wifi Adaptivity	1		
	Account Status			
	Account 1:	Not Re	gistered	

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7.3. Configure SIP Account

To register VTech NG-S3411W to Session Manager, Select **System** from the toolbar, then **Account 1** from the left-hand side list. Under the **General Account Settings** heading, input the following:

- Enable Account:
- Account Label:
- Display Name:
- User Identifier:
- Authentication Name:
- The desired display name (e.g., *NG3411W SIP*) An appropriate string (e.g., *70124*) Enter the extension number (e.g., *70124*) Enter the password

A descriptive string (e.g., *NG3411W*)

Click the corresponding checkbox

• Authentication Password:

vtech°	Hotel	Phones		
SYSTEM	STATUS	SYSTEM	NETWORK	SERVICING
SIP Account Management				
Account 1	SYSTEM ACCOUNT	MANAGEM	ENT ACCOUNT	1
Call Settings				
Account 1	General Account	t Settings		
User Preferences	• • • • • •			
Speed Dial Settings	Enable Account			
Handset Settings	Account label:	NG341		
Account Assignments	Display Name:	NG341	1W SIP	
Repeater Mode	User Identifer:	70124		
RF Settings	Authentication Name:	70124		
Paging Zones	Authentication Password:	•••••		
Emergency Dialing Settings	Dial Plan:	x+P		
	Call Restriction Dial plan:			
	Inter-Digit Timeout (secs): 3	~	
	Line Type:	Private	· ·	
	DTMF Method:	Auto	~	
	Unregister After Reboot:	Disable	• •	
	Call Rejection Response 0	Code 486	~	

Under the **SIP Server** heading, enter the following:

- Server Address: Session Manager IP address (e.g., 10.64.110.212)
- **Port**: 5061

Under the **Registration** heading, enter the following:

5061

- Server Address: Session Manager IP address (e.g., 10.64.110.212)
- Port:

SIP Server	
Server Address:	10.64.110.212
Port:	5061
Registration	
Server Address:	10.64.110.212
Port:	5061
Expiration (secs):	3600
Registration Freq (secs):	10
Outbound Proxy	
Server Address:	
Port:	5060
Backup Outbound P	roxy
Server Address:	
Port:	5060
Caller Identity	
Source Priority 1:	PAI 🗸
Source Priority 2:	RPID V
Source Priority 3:	From V

Continuing on the same page, under the **Audio** heading, select **Enable Voice Encryption** (**SRTP**). Under the **Signaling Settings** heading, input the following:

- Local SIP Port: 5061
- Transport: TLS

Under the **Voicemail Settings** header, select **Enable MWI Subscription.** Click **Save** (not shown).

Audio	
Codec Priority 1:	G.711u 🗸
Codec Priority 2:	G.711a 🗸
Codec Priority 3:	G.729a/b 🗸
Codec Priority 4:	G.726 🗸
Codec Priority 5:	G.722 🗸
Codec priority 6:	None 🗸
Codec priority 7:	iLBC 🗸
Enable Voice Encryption (SRTP)	
Enable G.729 Annex B	
Preferred Packetization Time (ms):	20 🗸
DTMF Payload Type:	101
Quality of Service	
DSCP (voice):	46
DSCP (signaling):	26
Signaling Settings	
Local SIP Port:	5061
Transport:	TLS 🗸
Voice	
Min Local RTP Port:	18000
Max Local RTP Port:	19000
Voicemail Settings	
Enable MWI Subscription	

7.4. Install CA Certificate

Note: VTech NG-S3411W currently does not validate the server certificate during TLS handshake as noted in **Section 2.2**. This will be fixed in a future firmware release. As such, CA Certificate installation is not needed but is documented here.

Note: The Session Manager CA certificate file must be installed in the VTech NG-S3411W Trusted Certificate store for validation of the Session Manager identity certificate offered during the TLS handshake.

Note: After Only accept trusted certificates has been set and saved, subsequent access to the Trusted Certificates page will not show that it has been set. The setting can be verified by exporting the phone configuration to a text file in Provisioning \rightarrow Export Configuration. Review the file and verify the entry *provisioning.check_trusted_certificate* = 1 exists. To install the CA certificate, select SERVICING from the toolbar, then Trusted Certificates from the left-hand side list. Click on Choose File and select the CA certificate. Select Only accept trusted certificates (not shown). Click Import (not shown). The CA should appear in the Trusted Certificate list.

vtech°		Hotel Pho	ones			
SERVICING	STAT	us s	YSTEM	NETWORK	SER	VICI
Reboot						
Time and Date	Trusted	Certificate				
irmware Upgrade	Select All					
Auto Upgrade						
Manual Upgrade	Total: 5	Issue to	Issue by	Expiration	Protected	
Provisioning Security		Vtech Business Phone Intermediate CA	Vtech Business Phone Root CA	Feb 28 07:26:03 2036 GMT		
Certificates Device		thawte Primary Root CA - G3	thawte Primary Root CA - G3	Dec 1 23:59:59 2037 GMT		
Trusted Certificates Tr069	0	VeriSign Universal Root Certification Authority	VeriSign Universal Root Certification Authority	Dec 1 23:59:59 2037 GMT		
System Logs	0	DigiCert High Assurance EV Root CA	DigiCert High Assurance EV Root CA	Nov 10 00:00:00 2031 GMT		
	0	System Manager CA	System Manager CA	May 19 14:55:39 2047 GMT	D	
	Save	ed Entries apt trusted certificate ed Certificate:			Choos	se File

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7.5. Modify Codec Settings

Modify the codec settings by selecting **SYSTEM** in the toolbar and **Account 1** in the left hand side selections. Under the **Audio** heading, select the desired codecs in priority.

Audio	
Codec Priority 1:	G.711u 🗸
Codec Priority 2:	G.711a 🗸
Codec Priority 3:	G.729a/b 🗸
Codec Priority 4:	G.726 🗸
Codec Priority 5:	G.722 🗸
Codec priority 6:	None 🗸
Codec priority 7:	ilbc 🗸
Enable Voice Encryption (SRTP)	
Enable G.729 Annex B	
Preferred Packetization Time (ms):	20 🗸
DTMF Payload Type:	101

Click Save.

8. Verification Steps

The proper configuration of VTech NG-S3411W with Avaya Session Manager and Avaya Communication Manager is verified by the following steps.

8.1. View Session Manager Status

Verify VTech NG-S3411W has successfully registered with Session Manager. In System Manager, Navigate to **Elements** \rightarrow **Session Manager** \rightarrow **System Status** \rightarrow **User Registrations.** Check the registration status by the following:

• Verify VTech NG-S3411W (here 70124) is registered with Session Manager by noting the registered users include 70124.

Aura® System			💄 Users 🗸 🏼 🎤 E	Elements v	🔅 Ser	vices ~	Widgets ~	Short	cuts ~		Search		4	≡	adm	iin
Home	Sess	ion Manage	er													
S	Help 7 User Registrations Select rows to send notifications to devices. Click on Details column for complete registration status. Customize															
										anced ch •	l					
	13 Items 👌 Show All 🗸 Filter: Enable															
		Details	Address 👻	First Name	Last Name	Actual Location	IP Address	Policy		Simult. Devices		Registe Prim		3rd 4th	Surv	
	0	►Show	70124@avaya.com	NG3411W	VTech		192.168.4.9	fixed		1/1						

8.2. Call Verification

Verify that basic calls can be made from and to VTech NG-S3411W and another telephone registered to Session Manager.

9. Conclusion

These Application Notes describe the configuration steps required to integrate VTech NG-S3411/NG-S3411W Cordless SIP Hotel Room Phones with Avaya Aura® Communication Manager and Avaya Aura® Session Manager. The VTech NG-S3411/NG-S3411W Cordelss SIP Hotel Room Phones register to Avaya Aura® Session Manager. Calls were then established with Avaya H.323 / SIP desk phones and the PSTN. In addition, basic telephony features were verified. All feature and serviceability test cases were completed successfully with observations noted in **Section 2.2**.

10. Additional References

This section references the Avaya documentation relevant to these Application Notes.

Avaya product documentation is available at <u>https://support.avaya.com</u>.

[1] Avaya Aura® Communication Manager Feature Description and Implementation, Issue 6, Release 10.1, September 2022.

[2] Administering Avaya Aura® Session Manager, Release 10.1, Issue 4, September 2022.

[3] Administering Avaya Aura® System Manager, Issue 7, Release 10.1.x, September 2022.

VTech NG-S3411/NG-S3411W SIP Hotel Phones product documentation is available at <u>https://vtechhotelphones.com.</u>

[4] VTech SIP Next Gen Series NG3411 User's Guide, October 24, 2022.

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Please e-mail any questions or comments pertaining to these Application Notes along with the full title name and filename, located in the lower right corner, directly to the Avaya DevConnect Program at <u>devconnect@avaya.com</u>.

ATTACHMENT 1



VTech Technologies Canada Ltd.

Date: October 12, 2022

Declaration of Conformance

We, VTech Technologies Canada LTD., declare under sole responsibility that product series NG-S3411 and NGS3411W all share the same hardware circuitry, software, SIP stack, and firmware version. Therefore the products are expected to behave in the same manner. Furthermore, these products are a functional superset of the other products in the NG series. The differences between the different models in the series are detailed in the table below.

Product Name	Model	Description
NG-S3411	NG-S3411	Next Gen Cordless SIP Hospitality Room Phone
NG-S3411W	NG-S3411W	Next Gen Cordless Wi- Fi Enabled SIP Hospitality Room Phone

Please do not hesitate to contact should you require further information. Thank you,

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