



Avaya Solution & Interoperability Test Lab

Application Notes for VTech CTM-S2315 SIP IP Phone with Avaya Aura® Communication Manager 8.1 and Avaya Aura® Session Manager 8.1 – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for VTech CTM-S2315 SIP Hotel Phone to interoperate with Avaya Aura® Communication Manager 8.1 and Avaya Aura® Session Manager 8.1. VTech CTM-S2315 SIP Hotel Phone registers with Avaya Aura® Session Manager as a SIP endpoint in support of voice communications.

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.

1. Introduction

These Application Notes describe the configuration steps required for VTech CTM-S2315 SIP Hotel Phone to interoperate with Avaya Aura® Communication Manager and Avaya Aura® Session Manager. VTech CTM-S2315 is a corded 1-line model.

2. General Test Approach and Test Results

The general test approach was to place calls to and from VTech CTM-S2315 and exercise basic telephone operations. The main objectives were to verify the following:

- SIP registration
- Codecs (G.711, G.722, G.726, and G.729)
- Inbound calls and outbound calls
- Call termination (origination/destination)
- Avaya telephony features using FAC (Call Pickup, Call Forward, and Find Me)
- Message Waiting Indicator (MWI)
- Voicemail Coverage
- Serviceability

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 CTM-S2315 does not support multiple line appearances. 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 the VTech phones enabled capabilities of TLS/SRTP.

2.1. Interoperability Compliance Testing

VTech CTM-S2315 registers with Session Manager and thus is able to use Communication Manager telephony features in a similar manner to Avaya SIP endpoints. The following areas were evaluated in the compliance test:

- Registration of VTech CTM-S2315 to Session Manager.
- Basic call features: Answer, Hold/Resume, Mute/Un-mute, Drop, Message Waiting Indicator, DTMF, Call Pickup, Call Waiting, Call Forward.
- Codec negotiation, Media Shuffling, and Session Refresh Interval.
- 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:

- CTM-S2315 does not support the following features
 - Call Park/unpark
 - Transfer
 - Conference
 - Programmable buttons do not support feature access codes with data input
- The VTech G.726 codec payload type of 2 is not supported by Communication Manager. This is acceptable to VTech.
- CTM-S2315 does not provide a tone when outbound calls are not allowed (call screening) but the call itself is rejected.
- CTM-S2315 does not have a hold button. Testing employed a flash hook to put the far end on hold.
- CTM-S2315 uses a flash hook to implement call waiting.
- CTM-S2315 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.

2.3. Support

Technical support for VTech CTM-S2315 SIP Phone can be obtained at:

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

3. Reference Configuration

Figure 1 illustrates the test configuration diagram for VTech CTM-S2315 integrated to Avaya Aura Communication Manager and Avaya Aura System Manager. VTech CTM-S2315 registers to Session Manager via SIP and uses the telephony features from Communication Manager.

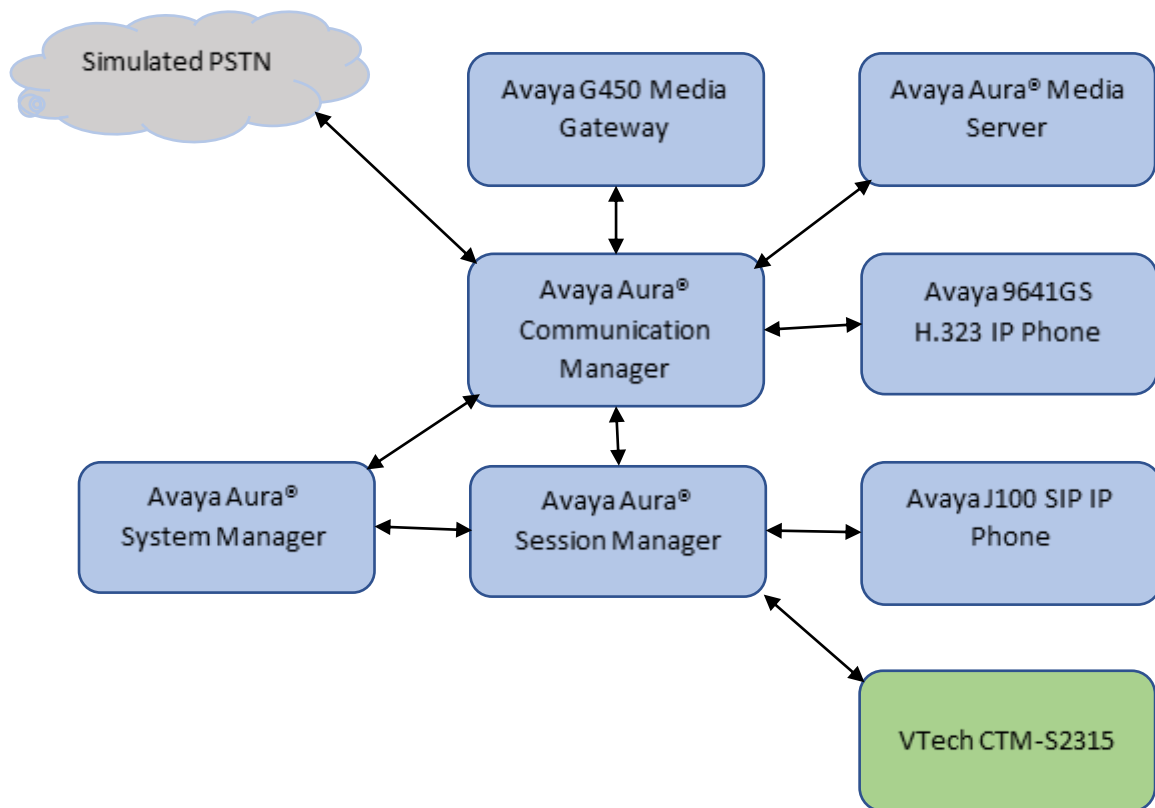


Figure 1: Avaya Test Configuration for VTech CTM-S2315

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 a virtual server	8.1.3.0.1.890.26685
Avaya Aura® System Manager running on virtual Machine	8.1.3.0.813014
Avaya Aura® Session Manager running on a virtual server	8.1.3.0.813014
Avaya G450 Media Gateway	41.34.1
Avaya 9641GS IP Phone (H.323)	R6_8_5_11-050321
Avaya J100 IP Phone (SIP)	R4_0_9_0-040821
VTech CTM-S2315 IP Phone	2.18.4.0

5. Configure Avaya Aura® Communication Manager

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

- Verify the 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 CTM-S2315 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: V18                                     Software Package: Enterprise
Location: 2                                         System ID (SID): 1
Platform: 28                                       Module ID (MID): 1

                                                USED
Platform Maximum Ports: 48000                       111
Maximum Stations: 36000                             86
Maximum XMOBILE Stations: 36000                     0
Maximum Off-PBX Telephones - EC500: 41000          0
Maximum Off-PBX Telephones - OPS: 41000          51
Maximum Off-PBX Telephones - PBFMC: 41000          0
Maximum Off-PBX Telephones - PVFMC: 41000          0
Maximum Off-PBX Telephones - SCCAN: 0              0
Maximum Survivable Processors: 313                  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                                     Page 1 of 20
                                                           IP NETWORK REGION
  Region: 1
  Location: 1          Authoritative Domain: avaya.com
    Name: Main
  MEDIA PARAMETERS
    Codec Set: 1          Intra-region IP-IP Direct Audio: yes
    UDP Port Min: 2048    Inter-region IP-IP Direct Audio: yes
    UDP Port Max: 3329    IP Audio Hairpinning? n
  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
  H.323 IP ENDPOINTS          AUDIO RESOURCE RESERVATION PARAMETERS
    H.323 Link Bounce Recovery? y          RSVP Enabled? n
    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 CTM-S2315. 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

Audio      Silence      Frames      Packet
Codec      Suppression  Per Pkt    Size(ms)
1: G.711MU          n           2          20
2: G.711A          n           2          20
3: G.729           n           2          20
4: G.722-64K       2          2          20
5:
6:
7:
Media Encryption Encrypted SRTP: 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.

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.

Also note that single sign-on between servers in the same security domain is not supported when accessing via IP address.

This system is restricted solely to authorized users for legitimate business purposes only. The actual or attempted unauthorized access, use, or modification of this system is strictly prohibited.

Unauthorized users are subject to company disciplinary procedures and or criminal and civil penalties under state, federal, or other applicable domestic and foreign laws.

The use of this system may be monitored and recorded for administrative and security reasons. Anyone accessing this system expressly consents to such monitoring and recording, and is advised that if it reveals possible evidence of criminal activity, the evidence of such activity may be provided to law enforcement officials.

All users must comply with all corporate instructions regarding the protection of information assets.

User ID:

Password:

[Change Password](#)

Supported Browsers: Internet Explorer 11.x or Firefox 65.0, 66.0 and 67.0.

6.2. Administer SIP Users

VTech CTM-S2315 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** → **User Management** → **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:** Enter the last name of the user, e.g., **VTech**
- **First Name:** Enter the first name of the user, e.g., **S2315**
- **Login Name:** Enter <extension>@<sip domain> of the user (e.g., **70123@avaya.com**)

The screenshot shows the Avaya Aura System Manager 8.1 interface for adding a new user profile. The page title is "User Profile | Add". The navigation tabs include "Identity", "Communication Profile", "Membership", and "Contacts". The "Basic Info" tab is selected, showing a form with the following fields and values:

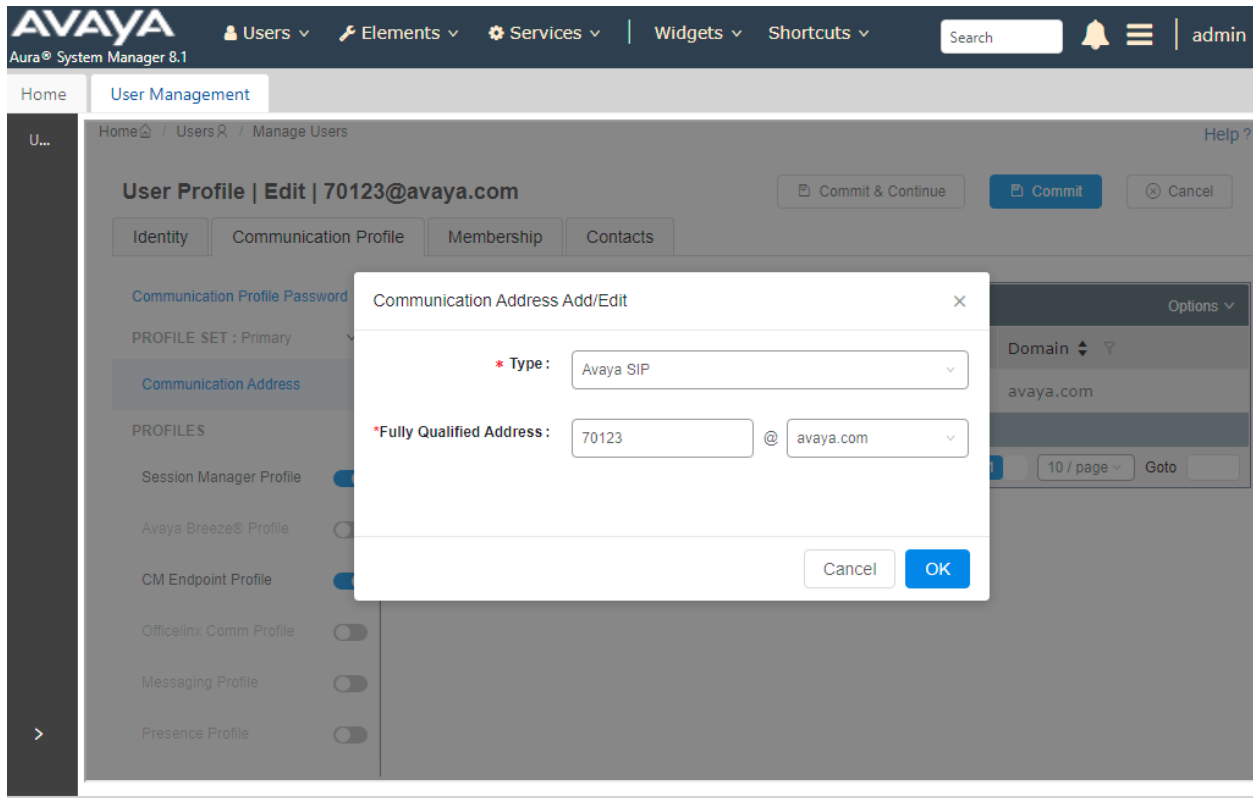
- User Provisioning Rule: (empty dropdown)
- * Last Name: VTech
- Last Name (in Latin alphabet characters): VTech
- * First Name: S2315
- First Name (in Latin alphabet characters): S2315
- * Login Name: 70123@avaya.com
- Middle Name: Middle Name Of User
- Description: Description Of User
- Email Address: Email Address Of User
- Password: (masked with dots)
- User Type: Basic
- * Confirm Password: (masked with dots, with a green checkmark)
- Localized Display Name: Localized Display Name Of

6.2.2. Communication Address

Select **Communication Address** in the left list and click + **New** (not shown).

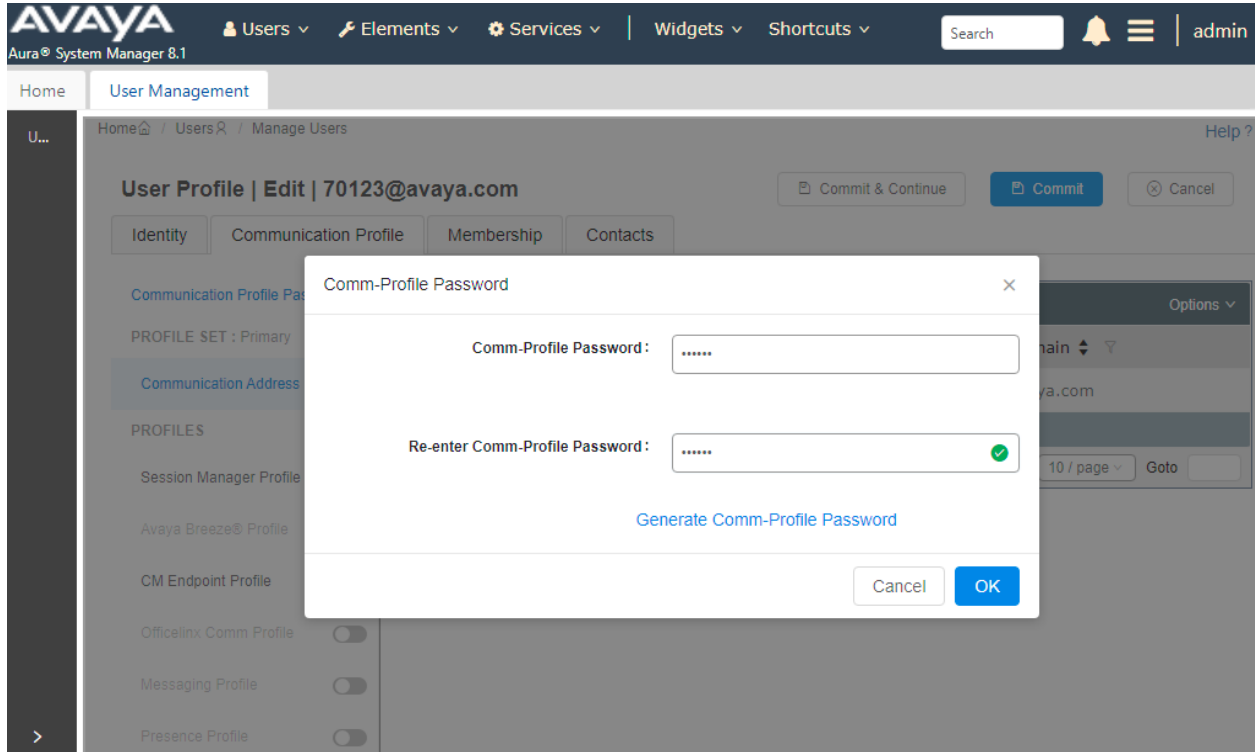
Enter the following attributes for the **Communication Address**:

- **Type:** Select **Avaya SIP** from the drop-down list
- **Fully Qualified Address:** Enter the extension number (e.g., **70123**)
- **Domain:** Enter the domain (e.g., **avaya.com**)



6.2.3. Communication Profile Password

Click the **Communication Profile Password** tab and in the **Comm-Profile Password** and **Re-enter 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.

The screenshot displays the Avaya Aura System Manager 8.1 interface for editing a user profile. The top navigation bar includes the Avaya logo, 'Users', 'Elements', 'Services', 'Widgets', and 'Shortcuts' menus, along with a search bar and user 'admin'. The breadcrumb trail shows 'Home / Users / Manage Users'. The main content area is titled 'User Profile | Edit | 70123@avaya.com' and features tabs for 'Identity', 'Communication Profile', 'Membership', and 'Contacts'. The 'Communication Profile Password' section shows 'PROFILE SET : Primary' and 'Communication Address'. The 'PROFILES' section has a 'Session Manager Profile' toggle turned on, along with other profile toggles like 'Avaya Breeze® Profile', 'CM Endpoint Profile', 'Officelinx Comm Profile', 'Messaging Profile', and 'Presence Profile'. The 'SIP Registration' section contains: 'Primary Session Manager' (sm81), 'Secondary Session Manager' (Start typing...), 'Survivability Server' (Start typing...), 'Max. Simultaneous Devices' (1), and a 'Block New Registration When Maximum Penetrations Active?' checkbox. The 'Application Sequences' section includes 'Origination Sequence' (cm81) and 'Termination Sequence' (cm81). Action buttons 'Commit & Continue', 'Commit', and 'Cancel' are located at the top right.

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., **cm81**)
- **Profile Type:** Select **Endpoint**
- **Template:** Select **J179_DEFAULT_CM_8_1**
- **Extension:** Enter the extension number (e.g., **70123**)

Click on **Endpoint Editor** 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**.

The screenshot displays the Avaya Aura System Manager 8.1 interface for editing a user profile. The breadcrumb trail is Home > Users > Manage Users. The page title is 'User Profile | Edit | 70123@avaya.com'. At the top right, there are buttons for 'Commit & Continue', 'Commit', and 'Cancel'. The 'Communication Profile' tab is selected, and the 'CM Endpoint Profile' toggle is turned on. The form fields are as follows:

* System: cm81	* Profile Type: Endpoint
Use Existing Endpoints: <input type="checkbox"/>	* Extension: 70123
Template: J179_DEFAULT_CM_8_1	* Set Type: J179
Security Code: Enter Security Code	Port: IP
Voice Mail Number:	Preferred Handle: Select
Calculate Route Pattern: <input checked="" type="checkbox"/>	Sip Trunk: aar
SIP URI: Select	Delete on Unassign from User or on Delete User: <input checked="" type="checkbox"/>
Override Endpoint Name and Localized Name: <input checked="" type="checkbox"/>	Allow H.323 and SIP Endpoint Dual Registration: <input type="checkbox"/>

7. Configure VTech CTM-S2315

The steps to configure VTech CTM-S2315 to integrate with Communication manager are as follows:

- Configure IP Address
- Launch Web Interface
- Configure SIP Account
- Modify Codec Settings as required

7.1. Configure IP Address

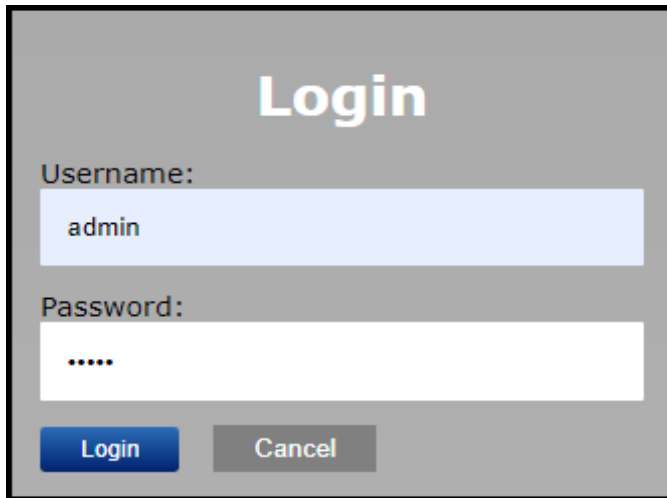
VTech CTM-S2315 is configured for DHCP as a factory default. The following steps provide network connectivity and determine the phone's IP address for use in launching administration detailed in **Section 7.2**:

- Connect the WAN port of VTech CTM-S2315 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 CTM-S2315 user manual obtained at <http://vtechhotelphones.com>.

7.2. Launch Web Interface

The phone administration is done through a web interface. To access web administration, follow these steps:

- Invoke the web login page using the **IP address** from **Section 7.1** using the URL **https://<IP address>**.
- Enter **admin** for **Username** and the appropriate password for **Password**



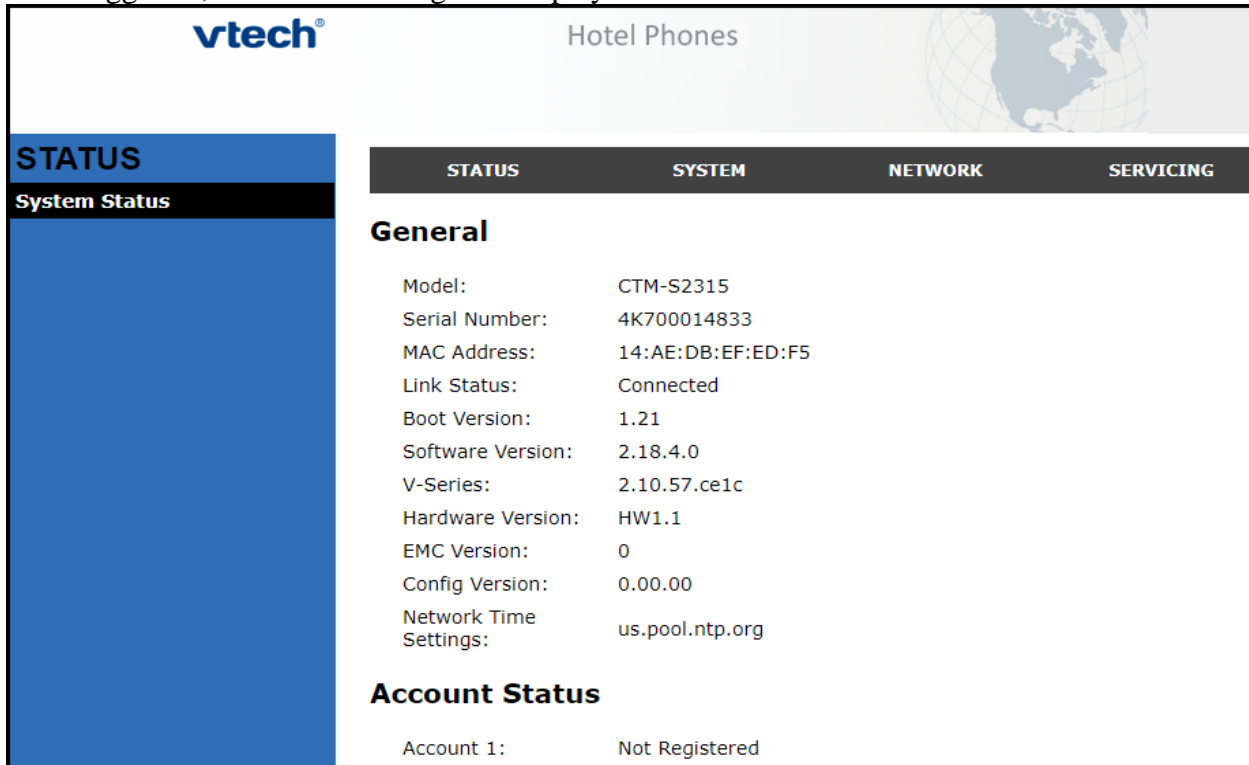
Login

Username:
admin

Password:
.....

Login Cancel

Once logged in, the default settings are displayed:



vtech Hotel Phones

STATUS SYSTEM NETWORK SERVICING

System Status

General

Model:	CTM-S2315
Serial Number:	4K700014833
MAC Address:	14:AE:DB:EF:ED:F5
Link Status:	Connected
Boot Version:	1.21
Software Version:	2.18.4.0
V-Series:	2.10.57.ce1c
Hardware Version:	HW1.1
EMC Version:	0
Config Version:	0.00.00
Network Time Settings:	us.pool.ntp.org

Account Status

Account 1:	Not Registered
------------	----------------

- **Note:** If firmware upgrades are needed, consult the configuration guide for instructions Refer to <http://vtechhotelphones.com>.

7.3. Configure SIP Account

To register VTech 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:** Click the corresponding checkbox
- **Account Label:** A descriptive string (e.g., **S2315**)
- **Display Name:** The desired display name (e.g., **S2315 SIP**)
- **User Identifier:** An appropriate string (e.g., **70123**)
- **Authentication Name:** Enter the extension number (e.g., **70123**)
- **Authentication Password:** Enter the password

The screenshot shows the VTech Hotel Phones configuration interface. The top header includes the VTech logo and 'Hotel Phones' with a globe icon. A navigation bar contains 'STATUS', 'SYSTEM', 'NETWORK', and 'SERVICING'. The left sidebar is titled 'SYSTEM' and lists 'SIP Account Management', 'Account 1', 'Call Settings', 'Account 1', 'User Preferences', 'Speed Dial Settings', 'Paging Zones', and 'Emergency Dialing Settings'. The main content area is titled 'SYSTEM ACCOUNT MANAGEMENT ACCOUNT 1' and contains 'General Account Settings'. The settings are as follows:

<input checked="" type="checkbox"/> Enable Account	
Account label:	2315
Display Name:	S2315 SIP
User Identifier:	70123
Authentication Name:	70123
Authentication Password:
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 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:

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

	SIP Server	
	Server Address:	<input type="text" value="10.64.110.212"/>
	Port:	<input type="text" value="5061"/>
	Registration	
	Server Address:	<input type="text" value="10.64.110.212"/>
	Port:	<input type="text" value="5061"/>
	Expiration (secs):	<input type="text" value="3600"/>
	Registration Freq (secs):	<input type="text" value="10"/>
	Outbound Proxy	
	Server Address:	<input type="text"/>
	Port:	<input type="text" value="5060"/>
	Backup Outbound Proxy	
Server Address:	<input type="text"/>	
Port:	<input type="text" value="5060"/>	

Under the **Audio** heading, select the following:

- **Enable Voice Encryption (SRTP)**

Under the **Signaling Settings** heading, input the following:

- **Local SIP Port:** **5061**
- **Transport:** **TLS**

The screenshot displays a configuration page with a blue sidebar on the left. The main content area is divided into three sections:

- Audio:** Contains seven codec priority dropdown menus (G.711u, G.711a, G.729a/b, G.726, G.722, None, iLBC), a checked checkbox for 'Enable Voice Encryption (SRTP)', an unchecked checkbox for 'Enable G.729 Annex B', a 'Preferred Packetization Time (ms)' dropdown (20), and a 'DTMF Payload Type' text input (101).
- Quality of Service:** Contains two DSCP text inputs: 'DSCP (voice):' (46) and 'DSCP (signaling):' (26).
- Signaling Settings:** Contains a 'Local SIP Port' text input (5061) and a 'Transport' dropdown menu (TLS).

Under the **Voicemail Settings** header, select the following (not shown):

- **Enable MWI Subscription**

Click **Save**.

Reboot the phone. Select **Servicing** on the toolbar and **Reboot** on the left hand side selections. Click the **Reboot** button.

7.4. Modify Codec Settings as Required

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.722
Codec Priority 5:	None
Codec priority 6:	None
Codec priority 7:	None
<input checked="" type="checkbox"/> Enable Voice Encryption (SRTP)	
<input type="checkbox"/> Enable G.729 Annex B	
Preferred Packetization Time (ms):	20
DTMF Payload Type:	101

Click **Save**.

8. Verification Steps

The proper configuration of VTech CTM-S2315 with Avaya Session Manager and Avaya Communication Manager is verified by the following steps.

8.1. View Session Manager Status

Verify VTech CTM-S2315 has successfully registered with Session Manager. In System Manager, Navigate to **Elements** → **Session Manager** → **System Status** → **User Registrations**. Check the registration status by the following:

- Verify VTech CTM-S2315 (here **70123**) is registered with Session Manager by noting the registered users include **70123**.

The screenshot shows the Avaya System Manager 8.1 interface. The top navigation bar includes 'Users', 'Elements', 'Services', 'Widgets', and 'Shortcuts'. The main content area is titled 'User Registrations' and displays a table of user registrations. The table has columns for 'Details', 'Address', 'First Name', 'Last Name', 'Actual Location', 'IP Address', 'Remote Office', 'Shared Control', 'Simult. Devices', 'AST Device', and 'Registered' (with sub-columns for 'Prim', 'Sec', 'Surv', and 'Visiti'). A row is visible for user 70123@avaya.com.

	Details	Address	First Name	Last Name	Actual Location	IP Address	Remote Office	Shared Control	Simult. Devices	AST Device	Registered
<input type="checkbox"/>	Show	70123@avaya.com	S2315	VTech	---	192.168.5.28	<input type="checkbox"/>	<input type="checkbox"/>	1/1	<input type="checkbox"/>	<input checked="" type="checkbox"/>

8.2. Call Verification

Verify that basic calls can be made from and to VTech CTM-S2315 and another telephone registered to Session Manager.

9. Conclusion

These Application Notes describe the configuration steps required for VTech CTM-S2315 to successfully interoperate with the Avaya Aura® Communication Manager and Avaya Aura® Session Manager as described in these notes. All feature and serviceability test cases were completed with observations noted in **Section 2.2**.

10. Additional References

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

[1] *Administering Avaya Aura® Communication Manager*, Issue 10, Release 8.1.x, March 2021.

[2] *Administering Avaya Aura® Session Manager*, Issue 8, Release 8.1.x, February 2021.

[3] *Administering Avaya Aura® System Manager*, Issue 11, Release 8.1.x, April 2021.

Product information for VTech SIP Hotel Phones may be found at <http://vtechhotelphones.com>.

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