

Valcom SIP devices can integrate with Avaya Aura[®] Communication Manager and Avaya Aura[®] Session Manager as SIP endpoints. Some devices are single-channel (using one SIP extension), while other devices can be configured with up to 8 extension numbers (in Station mode) or up to 100 extension numbers (in Trunk mode). The following information illustrates the minimum configuration for a Valcom SIP device to register on an Avaya Aura[®] Communication Manager and Avaya Aura[®] Session Manager version 6.3.

1. Valcom uses UDP to communicate with Session Manager. To confirm UDP is enabled, log on to the Avaya System Manager web page and navigate to Elements ⇌ Routing ⇌ SIP Entities. On the SIP Entities page, select the Session Manager to which the SIP device will register. On the SIP Entities Detail page for the Session Manager, verify in the Port section that UDP protocol is available. If not, click the Add button to open an additional line and add it to the list. The default SIP port is 5060, although this can be changed to a different value if necessary. The Default Domain value should be chosen appropriate to your environment. The screen capture below shows a Session Manager configured to communicate on UDP port 5060.

Port

TCP Failover port:

TLS Failover port:

3 Items

<input type="checkbox"/>	Port	Protocol	Default Domain	Notes
<input type="checkbox"/>	5060	TCP	sip.avaya.com	<input type="text"/>
<input checked="" type="checkbox"/>	5060	UDP	sip.avaya.com	<input type="text"/>
<input type="checkbox"/>	5061	TLS	sip.avaya.com	<input type="text"/>

Select : All, None

2. Create new Endpoints for each SIP extension that will be assigned to the Valcom SIP device.
 - A. The following instructions are for creating a single SIP extension. For multi-channel devices, Communication Manager provides a method to add multiple extensions in one step. Skip to section 2.B for instructions on adding multiple extensions to one Valcom device.

In System Manager, navigate to Elements ⇌ Communication Manager ⇌ Endpoints ⇌ Manage Endpoints. Click the “New” button to add a single endpoint.

Endpoint List

30 Items Show ALL

<input type="checkbox"/>	Name	Extension	Port	Set Type	COS	COR	User
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On the New Endpoint page, enter the required information for System, Template, Port and Extension. Fill in other items as necessary for your system. For our example, the 9620SIP_DEFAULT_CM_6_3 template was selected. A description of the Valcom device was entered in the optional Name field. For the extension, 3027 was chosen from the list of available numbers. Enter a numeric Security Code. Note that this code will be used for the Communication Profile password (in Step 4) and will be used by the Valcom SIP device as its “Secret” to register the extension with Session Manager. Click the Commit button to create the new endpoint.

New Endpoint

[Save As Template]

<p>* System: <input type="text" value="CommunicationManager1"/></p> <p>* Template: <input type="text" value="9620SIP_DEFAULT_CM_6_3"/></p> <p>* Port: <input type="text" value="IP"/></p> <p>Name: <input type="text" value="Valcom Talkback Speaker"/></p>	<p>* Extension: <input type="text" value="3027"/></p> <p>Set Type: <input type="text" value="9620SIP"/></p> <p>Security Code: <input type="text" value="*****"/></p>
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General Options (G) * Feature Options (F) Site Data (S) Abbreviated Call Dialing (A) Enhanced Call Fwd (E)

Button Assignment (B) Group Membership (M)

<p>* Class of Restriction (COR): <input type="text" value="1"/></p> <p>* Emergency Location Ext: <input type="text" value="3027"/></p> <p>* Tenant Number: <input type="text" value="1"/></p> <p>* SIP Trunk: <input type="text" value="aar"/></p> <p>Coverage Path 1: <input type="text"/></p> <p>Lock Message: <input type="checkbox"/></p> <p>Multibyte Language: <input type="text" value="Not Applicable"/></p>	<p>* Class Of Service (COS): <input type="text" value="1"/></p> <p>* Message Lamp Ext.: <input type="text" value="3027"/></p> <p>Type of 3PCC Enabled: <input type="text" value="None"/></p> <p>Coverage Path 2: <input type="text"/></p> <p>Localized Display Name: <input type="text"/></p>
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*Required

- B. For Valcom multi-channel devices that can use more than one SIP extension, Communication Manager provides a method to add multiple extensions at one time.

In System Manager, navigate to Elements ⇌ Communication Manager ⇌ Endpoints ⇌ Manage Endpoints. To simplify creating multiple Endpoints, use the “More Actions” button, and choose “Bulk Add Endpoints”.

Endpoint List

15 Items Show

Name	Extension	Port	Set Type	COS	COR

In the Bulk Add Endpoints page, choose the System where the endpoints will be created from the drop-down list. Choose an appropriate Template. For our example, the 9620SIP_DEFAULT_CM_6_3 template is selected. For the Endpoint Name Prefix, enter a descriptive name. The extension number will be appended to the prefix entered. In the Enter Extensions box, enter the extension numbers that will be assigned to the new endpoints. A consecutive range can be specified using a colon (:) separator. Non-consecutive numbers can be entered using a comma separator. In our example, a range of endpoints beginning with 3011 and ending with 3018 will be created. Click the Now button to create the new endpoints, or click the Schedule button to defer processing until a maintenance window.

Bulk Add Endpoints

* System	CommunicationManager1
* Template	9620SIP_DEFAULT_CM_6_3
Endpoint Name Prefix	PagePro Ch-
Available Extensions	Select 1000000 : 1900049 1900052 : 1999994 1999996 : 1999997 2000000 : 2999999 3000 3000000 : 3999999 3004 3006 : 3007 3011 : 3020 3024 3026 : 3998 4000000 : 4999999 5000000 : 5350000 5350002 : 5350003 5350005 5350007 : 5999999 6000000 : 6999999 7000000 : 7999999 8000000 : 8999999
* Enter Extensions	3011:3018
Select Error Configuration	<input type="radio"/> Abort on First Error <input checked="" type="radio"/> Continue processing other records

*Required

After the Endpoints are created, navigate back to the Manage Endpoints page and edit each endpoint to add the Security Code. In the Endpoint List, check the box for one of the new Endpoints, and then click on the Edit button.

Endpoints

[\[Switch to Classic View\]](#)

Select device(s) from Communication Manager List

Endpoint List

23 Items 15

<input type="checkbox"/>	Name	Extension	Port	Set Type	COS	COR	User	Tenant Number	System
<input checked="" type="checkbox"/>	PagePro Ch-3018	3018	S00035	9620SIP	1	1		1	CommunicationManager1
<input type="checkbox"/>	PagePro Ch-3017	3017	S00034	9620SIP	1	1		1	CommunicationManager1
<input type="checkbox"/>	PagePro Ch-3016	3016	S00033	9620SIP	1	1		1	CommunicationManager1

On the Edit Endpoint page, add a numeric Security Code. Note that this code will be used for the Communication Profile password (in Step 4) and will be used by the Valcom SIP device as its “Secret” to register the extension with Session Manager.

Edit Endpoint

[\[Save As Template\]](#)

System	<input type="text" value="CommunicationManager1"/>	Extension	<input type="text" value="3018"/>
Template	<input type="text" value="9620SIP_DEFAULT_CM_6_3"/>	Set Type	<input type="text" value="9620SIP"/>
Port	<input type="text" value="S00035"/>	Security Code	<input type="text" value="•••••"/>
Name	<input type="text" value="PagePro Ch-3018"/>		

3. Create a new user for the PagePro IP. In System Manager, navigate to Users ⇌ User Management ⇌ Manage Users. On the User Management screen, click the New button to add a user. If this Valcom device will have more than one SIP extension assigned, create one user for each SIP extension.

On the Identity tab of the User Profile Edit page, fill in the First Name and Last Name fields with appropriate values. The Login Name should be the new user ID, followed by the domain this user account will be used in. Select Basic for the Authentication Type.

Identity * Communication Profile Membership Contacts

User Provisioning Rule

User Provisioning Rule:

Identity

* Last Name:

Last Name (Latin Translation):

* First Name:

First Name (Latin Translation):

Middle Name:

Description:

* Login Name:

* Authentication Type:

Password:

Confirm Password:

Localized Display Name:

Endpoint Display Name:

4. On the Communication Profile tab, edit the Communication Profile Password. This should be the same as the Security Code entered for the Endpoint configuration in Step 2 above, and is used by the Valcom SIP device to register with Session Manager.

Identity * **Communication Profile** Membership Contacts

Communication Profile

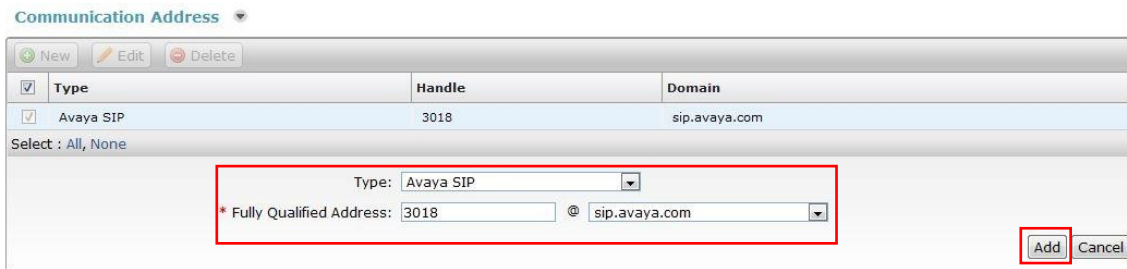
Communication Profile Password:

Confirm Password: [Cancel](#)

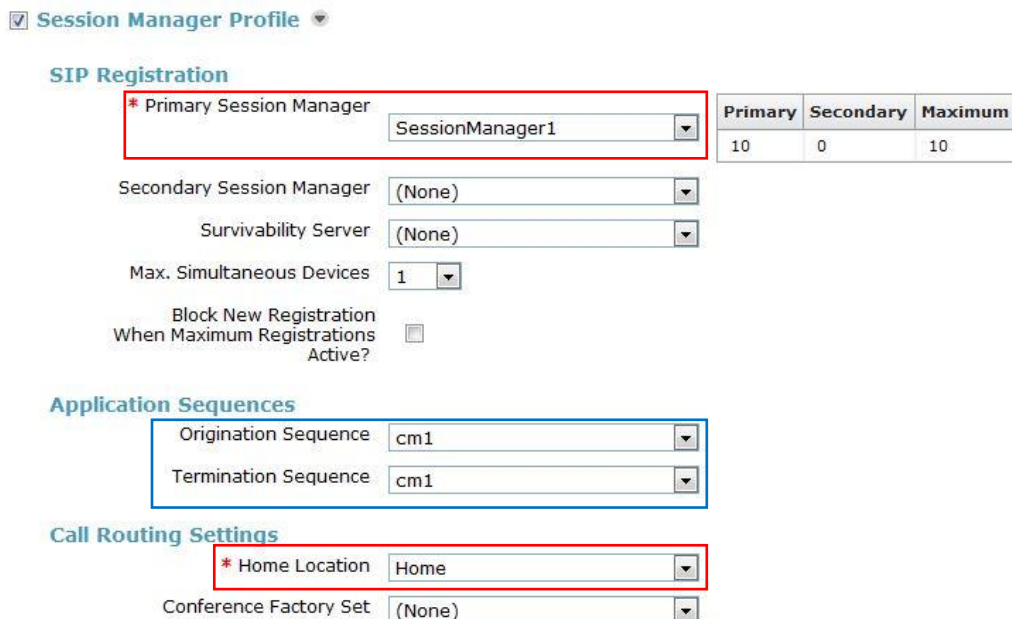
- In the Communication Address section, click on New to enter details for the SIP extensions that will be assigned to the Valcom SIP device.



Choose Avaya SIP for the Type, enter the SIP extension for Handle and choose the appropriate Domain from the drop-down list. Click the Add button when finished.



- Click the checkbox for Session Manager Profile and complete the required fields. At a minimum, the Primary Session Manager and Home Location must be selected. Fill in other fields as appropriate for your Aura installation, particularly the Application Sequences.



- Click the checkbox for CM Endpoint Profile and complete the required fields. Choose the correct Communication Manager server in the System list. For Profile Type, select Endpoint. Check the Use Existing Endpoints checkbox, and then enter one of the new extension numbers that was previously created. The Template, Security Code and Port should fill in automatically after selecting the existing Extension. Click the Commit button when all selections have been entered.

CM Endpoint Profile ▼

* System ▼

* Profile Type ▼

Use Existing Endpoints

* Extension

Template ▼

Set Type

Security Code

* Port

Voice Mail Number

Preferred Handle ▼

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

- Using the Valcom VIP-102B programming tool, complete the usual entries for IP address, Group Membership, Relays, etc. for the SIP device. On the SIP tab, enter the values created on the Avaya system to enable the Valcom SIP device to register and receive calls. Multi-channel devices can have up to 8 sub-tabs corresponding to each of the Endpoints created on the Communication Manager.

For the Phone Number, enter one of the Endpoint extensions created in Step 2. The Authentication Name is the same as the Phone Number. The Secret is the numeric value entered for the Communication Profile Password in Step 4 and Security Code in Step 2. In the SIP Servers area, enter the name or IP address of the Session Manager server where the PagePro IP will register. If the UDP port was changed from the default (5060, in Step 1), enter the same value in the Port column.

Click the Register checkbox.

For multi-channel devices, repeat this process for each sub-tab on the SIP main tab, changing the Phone Number/Authentication Name and Secret as necessary for each Endpoint that was created.

After making all required settings, update the Valcom device and allow it to reboot to make the changes effective.

- To verify successful registration, navigate in System Manager to Elements ⇌ Session Manager ⇌ System Status ⇌ User Registrations. Verify the User created previously is shown as registered to the Primary server.

	Details	Address	First Name	Last Name	Actual Location	IP Address	Remote Office	Shared Control	Simult. Devices	AST Device	Registered	
											Prim	Sec
<input type="checkbox"/>	► Show	3999@sip.avaya.com	Valcom	Bill-K	Home	192.168.6.210:5060	<input type="checkbox"/>	<input type="checkbox"/>	1/1	<input type="checkbox"/>	<input checked="" type="checkbox"/> (AC)	<input type="checkbox"/>
<input type="checkbox"/>	► Show	3018@sip.avaya.com	PagePro IP	Valcom	Home	192.168.96.117:5060	<input type="checkbox"/>	<input type="checkbox"/>	1/1	<input type="checkbox"/>	<input checked="" type="checkbox"/> (AC)	<input type="checkbox"/>