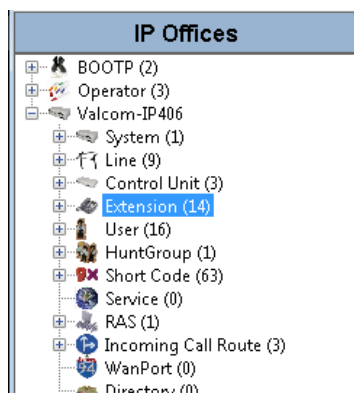



Valcom Session Initiation Protocol (SIP) VIP devices are compatible with SIP-enabled versions of Avaya IP Office (5.0 and higher). The Valcom device is added to the IP Office system as a SIP Extension. Each SIP Extension requires an Avaya 3rd Party IP Endpoint License in the IP Office server.

These instructions cover the minimum configuration necessary for a Valcom SIP-enabled device. Refer to Avaya documentation for details on enabling the SIP Registrar service and entering License information. Other settings may also be necessary, depending on your specific system environment.

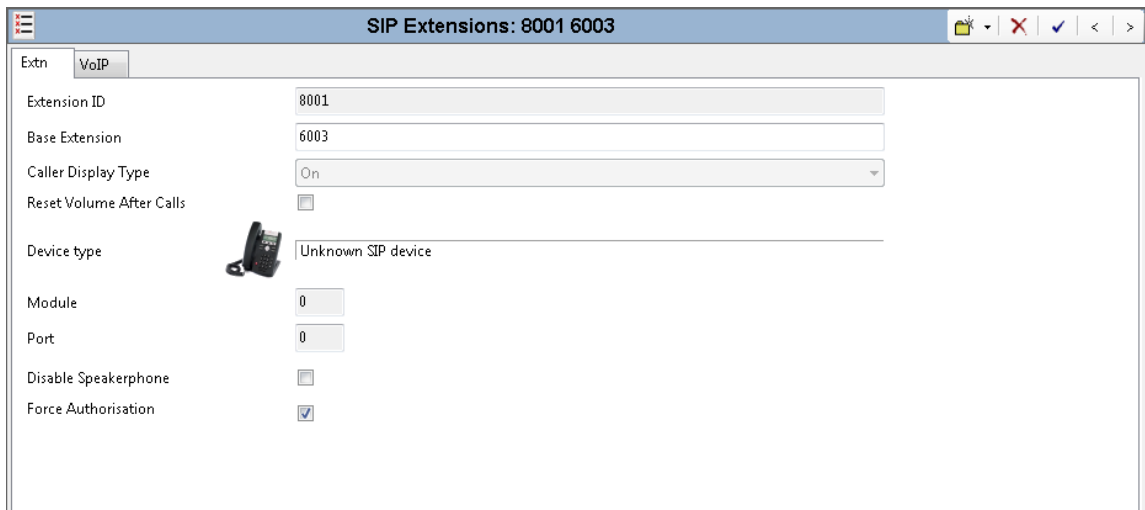
The following steps outline the typical configuration process:

1. Open the Avaya IP Office Manager application and connect to the IP Office server where the new SIP extension will be created. In the Navigation pane, click on the Extension category.

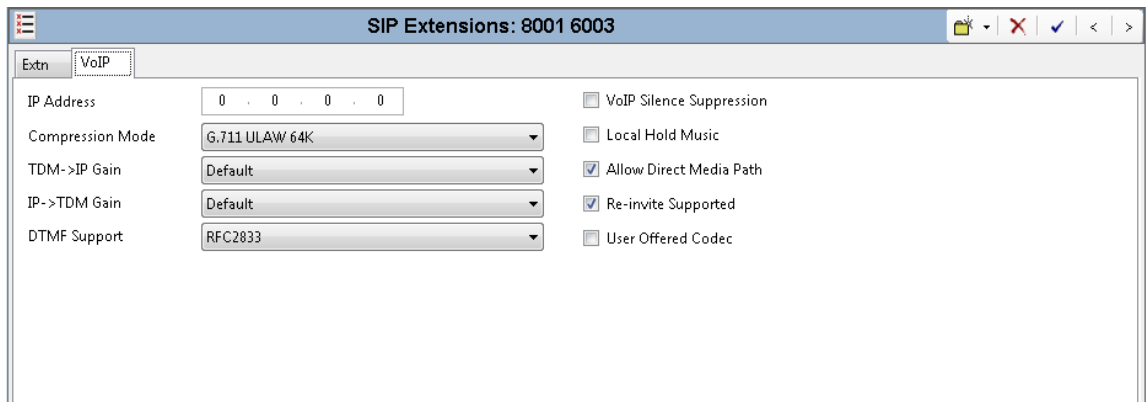


2. Click the New icon  in the upper-right corner of the Details pane, and choose SIP Extension to open a new Details pane. In the Base Extension field, enter the phone extension number that will be associated with the Valcom device. The "Force Authorisation" option at the bottom of the page (when checked) will require the SIP endpoint to provide Name and Login Code credentials when registering with the IP Office server. The credentials are defined in the User configuration later in this document.

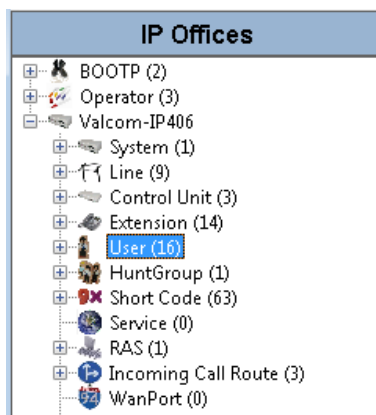
For this example, SIP extension number 6003 is being created and Force Authorisation is checked, so credentials will be required when the Valcom device registers with the server.




- Click the VoIP tab on the Details pane. The IP Address field may be left at the default value of 0.0.0.0, which will allow a connection from any IP address. This is useful when using DHCP to assign the IP address to the Valcom device. If an IP Address is entered in this field, then the Valcom device must be programmed to use the same IP address. In the Compression Mode list, choose the "G.711 ULAW 64K" option, and for DTMF Support, select "RFC2833". Then click the OK button at the bottom of the window.



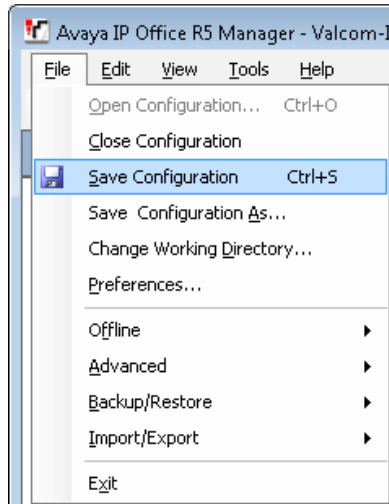
- In the Navigation pane, click on the User category.



- Click the New icon  in the upper right corner of the Details pane to create a new User. In the Details pane, click the User tab and enter a Name and Extension. In our example, the User Name will be "Ext6003" and the Extension number must match the extension number just created in Step 2 (6003). Other entries are optional. For our example, the Full Name has been entered as "Entrance Doorphone".

- Click the Telephony tab, then click the Supervisor Settings sub-tab. If the "Force Authorisation" option was selected in Step 2, enter the Login Code for this User. The Login Code is the password that will be used by the Valcom device during the SIP registration process. When finished, click the OK button at the bottom of the window.

7. After all of the Avaya settings have been entered in the Manager application, the configuration changes must be submitted to the IP Office server. Click the File menu, then Save Configuration. This will initiate the process to send the configuration to the server to make them effective. Follow the prompts to complete this process. A reboot of the server may be necessary.



8. The Valcom SIP device must now be programmed with the settings used on the IP Office server, using the VIP-102B IP Solutions Setup Tool.

Note: The information contained in this guide is limited to configuration of the “SIP” tab in the VIP-102B IP Solutions Setup Tool for the Valcom device that is to be registered to the SIP server. More information on Valcom VIP device configuration, such as IP address assignment, relay activation, etc, may be found in the VIP-102B Reference Manual. This document may be downloaded from our website at <http://www.valcom.com>

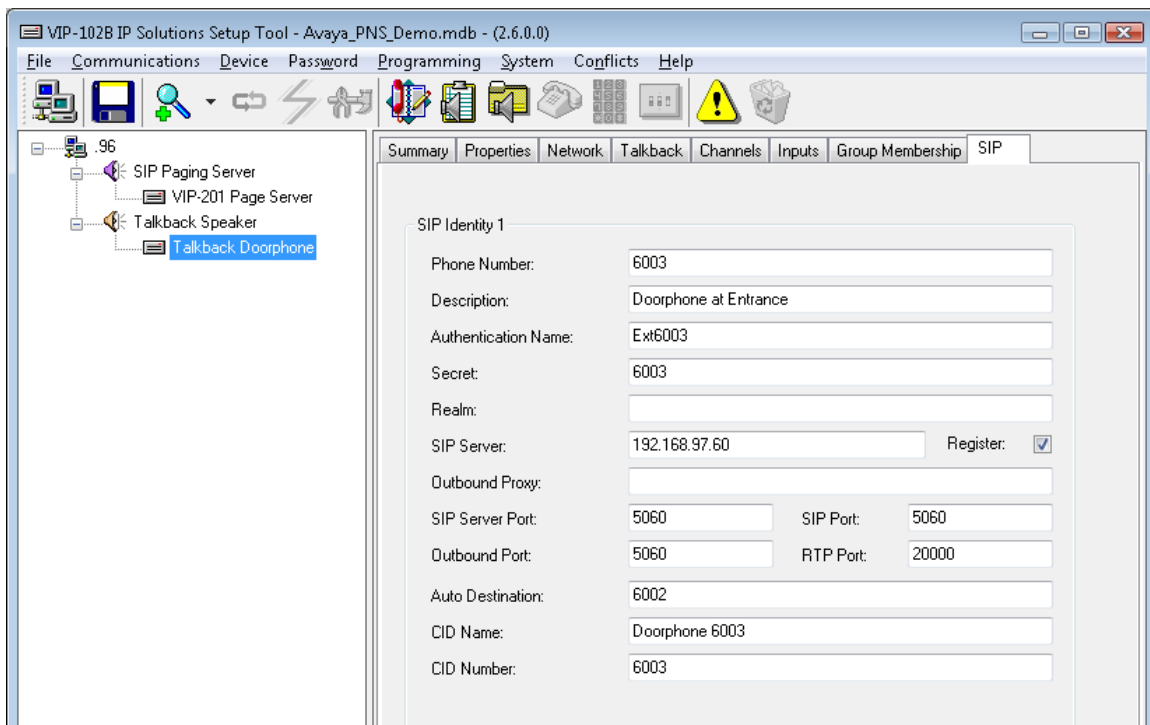
Required Fields: Phone Number, SIP Server, Register, SIP Server Port, SIP Port, RTP Port, Auto Destination
Authentication Name and Secret are required if using authentication on the IP Office server.

Optional Fields: Description, CID Name, CID Number

In our example, Phone Number is the same as the Base Extension in the Avaya IP Office configuration, “6003”. Authentication Name is the Avaya IP Office User Name created in Step 5, “Ext6003”. Secret is the same as the Login Code in the Avaya IP Office configuration, “6003”. SIP Server IP address is the address of the Avaya IP Office, “192.168.97.60”, and the Register box is checked. SIP Server Port is the port number on which the Avaya IP Office SIP server is listening for SIP data. SIP Port is the port number on which the Valcom device is listening for SIP data. By default, both SIP ports are set to “5060”. RTP Port is the port number on which the Valcom device will send/receive audio packets. By default this is set for “20000”.

The Auto Destination field specifies a phone number to which this device will automatically connect when activated. This can be any valid phone number, including a hunt group.

When the Valcom device configuration is complete, select the “Update Changed Devices” option from the Communications menu. The new configuration will be copied to the Valcom device, and you will be prompted to reset the device for the changes to become effective. Allow the device to reset before continuing.



9. With both the IP Office configuration and the Valcom device configuration completed, the success of the configuration may be checked using the Avaya System Monitor application. Click the SIP Phone Status option on the Status menu. The following screen will appear where the successful SIP registration can be seen. Note the Status for the new extension is shown as “SIP: Registered”.

The screenshot shows the SIPPhoneStatus application window. At the top, it displays 'Total Configured: 3' and 'Total Registered: 1'. A progress bar indicates 'Registered Status' with 1 out of 3 bars filled. Below this is a table with columns: Extn Num, IP Address, Transport, User Agent, SIP Options, and Status. The table contains three rows: 6001 (0.0.0.0, UA?, SIP: Unregistered), 6014 (0.0.0.0, UA?, SIP: Unregistered), and 6003 (192.168.96.241, UDP, Valcom xp1.17a, SIP: Registered). The 6003 row is highlighted in blue. At the bottom, there are 'Display Options' (Show All, Registered, UnRegistered), 'Print', and 'Cancel' buttons.

Extn Num	IP Address	Transport	User Agent	SIP Options	Status
6001	0.0.0.0		UA?		SIP: Unregistered
6014	0.0.0.0		UA?		SIP: Unregistered
6003	192.168.96.241	UDP	Valcom xp1.17a		SIP: Registered