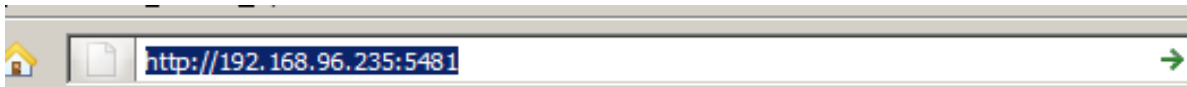


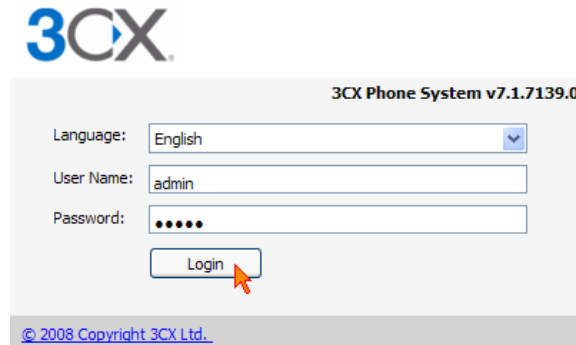
Valcom Session Initiation Protocol (SIP) VIP devices are compatible with 3CX SIP Phone Systems. The Valcom device is added to the 3CX as a standard SIP extension (generic SIP phone).

The following steps outline the typical configuration process:

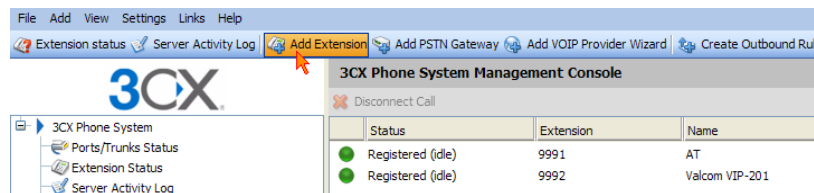
1. Navigate your web browser to the IP address of your 3CX SIP Server.
In this example the 3CX Phone System IP address is: 192.168.96.235
The 3CX SIP Server web access port number is "5481", by default.



2. Login, using the proper credentials.
In this example we use a default of "admin" for the username and "admin" for the password.



3. Select "Add Extension" from the toolbar in your web browser window.



4. Enter the appropriate values for the “Add Extension” page fields.
In this example, our user will be “9993” and this user’s password will be “password”.

Required Fields: Extension Number, ID, & Password

Optional fields are used to make administration tasks easier, but are not required. They are, however, recommended.

When complete, select the “Other” tab at the top of the “Add Extension” interface.

The screenshot shows the 'Add Extension' configuration window in 3CX. The 'Other' tab is selected, and the 'User Information' section is active. The 'Extension Number' field is set to '9993'. The 'First Name' is 'Front' and the 'Last Name' is 'Door'. The 'Email address' is 'admin@domain.tld'. In the 'Authentication' section, the 'ID' is '9993' and the 'Password' is masked with dots. The 'Voice Mail Configuration' section has 'Enable Voice mail' unchecked, 'Play Caller ID' unchecked, 'Read out date/time of message' set to 'Do not read', 'Pin Number' is empty, and 'Email Options' is set to 'No email notification'. The 'OK', 'Cancel', and 'Apply' buttons are at the bottom right.

Section	Field	Value
User Information	Extension Number	9993
	First Name	Front
	Last Name	Door
	Email address	admin@domain.tld
Authentication	ID	9993
	Password	••••••••
Voice Mail Configuration	Enable Voice mail	<input type="checkbox"/>
	Play Caller ID	<input type="checkbox"/>
	Read out date/time of message	Do not read
	Pin Number (Used for 3CX VOIP Client)	
	Email Options	No email notification

- Change the "SIP ID" field to the SIP extension given to the Valcom SIP enabled VIP device.
In this example, we will fill in "9993" for the SIP ID, the same as our "Extension Number" field on the "General" tab.

Select "OK", at the bottom of the page, to apply and activate this configuration.

The screenshot shows the 'Extensions' configuration page in 3CX. At the top, there is a header 'Extensions' and a sub-header 'Edit Extension settings and click OK or Apply to save changes.' Below this are four tabs: 'General', 'Forwarding Rules', 'Phone Provisioning', and 'Other'. The 'General' tab is active. Under 'User Information', there are fields for 'User Status' (set to 'Available'), 'Queues Status' (set to 'Logged Out'), 'Outbound Caller ID' (empty), and 'SIP ID' (set to '9993'). Below this is the 'Extension Capabilities' section with checkboxes for 'PBX Delivers Audio' (unchecked), 'Supports Re-Invite' (checked), and 'Support 'Replaces' header' (checked). The 'Extension options' section has checkboxes for 'Disable External Calls' (unchecked), 'Record all calls' (unchecked), and 'Disable Extension' (unchecked). At the bottom right, there are three buttons: 'OK' (highlighted with a red arrow), 'Cancel', and 'Apply'.

- After selecting "OK" you will be taken to an "Extension Created" screen which contains the Proxy server IP, SIP ID, Authentication ID, & Password. You will want to make note of this information.

The screenshot shows the 'Extension Created' confirmation screen. At the top, there are navigation links: 'Extension', 'Add PSTN Gateway', and 'Add VOIP Provider Wizard'. The main heading is 'Extensions' and the sub-heading is 'Extension Created'. The text reads: 'Extension Number 9993 was created for', 'You will need to enter these settings into the Users SIP phone', 'Proxy server IP or FQDN: 192.168.96.235:5060', 'SIP ID: 9993', 'Authentication ID: 9993', and 'Authentication Password: password'.

7. Open the VIP-102B tool interface for the Valcom SIP enabled VIP device.

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 VIP 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, Secret, SIP Server, Register, SIP Server Port, SIP Port, RTP Port, Auto Destination

Optional Fields: Authentication Name, CID Name, CID Number

In our example, the SIP Server IP address is the same as our 3CX SIP PBX, “192.168.96.235”.

Phone Number is the same as our Extension Number in the 3CX configuration, “9993”.

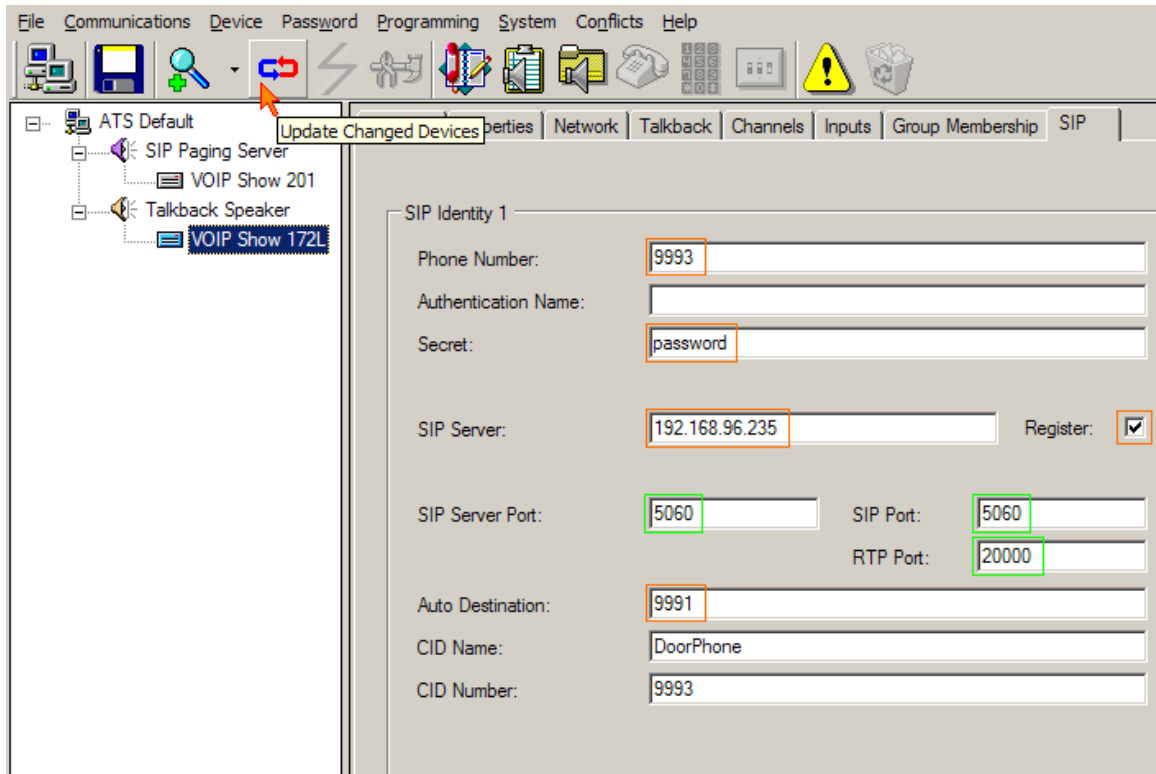
Secret is the same as our Password in the 3CX configuration, “password”.

SIP Server Port is the port number, on which the 3CX SIP server is listening for SIP data, as seen in the “Extension Created” dialog.

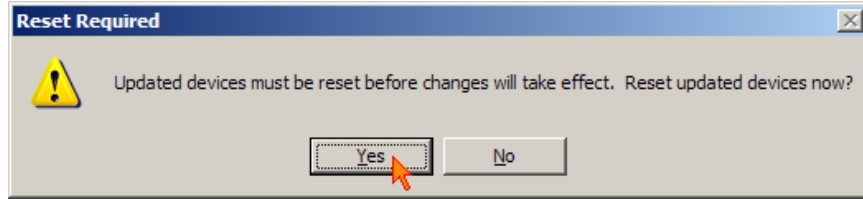
SIP Port is the port number, on which the Valcom VIP device is listening for SIP data. By default this is set for “5060”.

RTP Port is the port number, on which the Valcom VIP device is set to send/receive audio packets, via SIP. By default this is set for “20000”.

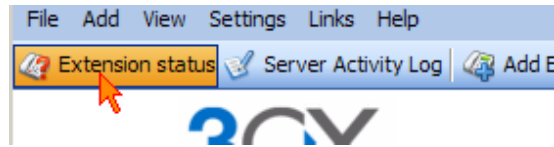
When the Valcom VIP device configuration is complete, select the “Update Changed Devices” button, at the upper left.



8. After updating your VIP device, you will be prompted to reset your device. Select "Yes".



9. Back to our 3CX web interface, select "Extension status" from the toolbar.



10. After getting the VIP device assigned the proper information, updated and reset, you will be able to view the registration status of the device. Successful registrations are listed with a green dot in the left column, next to "Status", with "Registered" in the "Status" column.

Below is a successful SIP registration:

A screenshot of the "Extension Status" page in the 3CX web interface. It shows a table with three columns: Status, Extension, and Name. There are three rows of data, each with a green dot in the Status column. Above the table, there is a "Disconnect Call" button.

Status	Extension	Name
Registered (idle)	9991	AT
Registered (idle)	9992	Valcom VIP-201
Registered (idle)	9993	Front Door