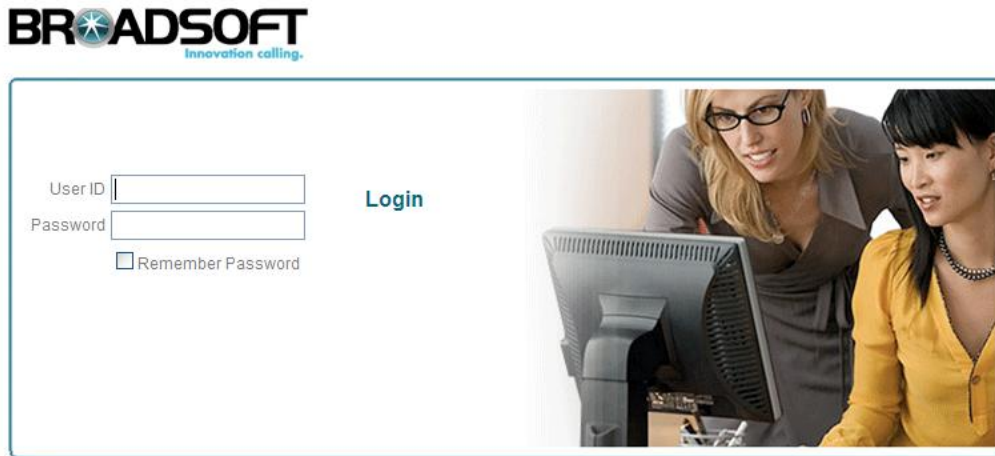


Valcom Session Initiation Protocol (SIP) VIP devices are compatible with BroadSoft's BroadWorks hosted SIP server. The Valcom device is defined as a Generic SIP Phone in the BroadWorks system. Authentication is supported if it is enabled in BroadWorks.

The following steps outline the typical configuration process using a Valcom PagePro IP Paging Server (VIP-201) as an example.

1. Login to your BroadSoft account with a User ID and Password that has administrative privileges.



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The programs included herein are subject to a restricted use license and can only be used in conjunction with this application.

2. Create a user account for the Valcom device by selecting Users under the Basic column of the Profile page.



- Click the Add button to create a new user.

Users
Add a new user or manage existing users in your department or group.

OK Add Cancel

Enter search criteria below

Last Name Starts With + Search

OK Add Cancel

- Enter the user information for your installation, then click the OK button when finished.

Users Add
Add a new user to your group.

OK Cancel

Service Provider: Interoperability Group: Valcom

* User ID: ValcomUser2 @ as.iop1.broadworks.net

* Last Name: ValcomUser2 * First Name: ValcomUser2

* Calling Line ID Last Name: ValcomUser2 * Calling Line ID First Name: ValcomUser2

* Initial Password: ***** * Re-type Initial Password: *****

Department: None Language: English

Time Zone: (GMT-04:00) (US) Eastern Time Network Class of Service: None

- From the Options menu select the Resources page, then select Identity/Device Profiles in the Configuration column.

BROADSOFT
Innovation calling.

Group [Help](#) - [Home](#)

Welcome [Logout](#)

Options:
Profile
Resources
Services
Acct/Auth Codes
Utilities

Resources

Configuration
Identity/Device Profiles
Add, modify, or remove identity/device profiles.

Domains
Display the list of domains assigned to your group.

Network Classes of Service
Display the list of Network Classes of Service assigned to your group.

Assignment
Assign Group Services
Assign or unassign group services for your group.

New User Services Template
Add or remove user services and service packs for the user template, which is applied when a new user is created.

Existing User Services
Assign or unassign user services and service packs for all users in your group.

- Click the Add button to create new device.

Identity/Device Profiles
Add a new group identity/device profile or manage existing identity/device profiles.

OK Add Cancel

Enter search criteria below

Identity/Device Profile Name Starts With + Search

OK Add Cancel

- Enter a name for the Valcom device, in this case “Valcom2”.
Select “Generic SIP Phone” from the dropdown list for Identity/Device Profile Type.
Select “SIP 2.0” for the Protocol.
Enter the IP address that has been assigned to the Valcom device in the Host Name/IP address field.
Port should be the default 5060.
Transport must be selected as “UDP”.
All other information on this screen is optional. Click the OK button when finished.

Identity/Device Profile Add
Add a new group identity/device profile.

OK Cancel

* Identity/Device Profile Name: Valcom2

Identity/Device Profile Type: Generic SIP Phone

Protocol: SIP 2.0

Host Name/IP Address: 192.168.100.3 Port: 5060

Transport: UDP

MAC Address:

Serial Number:

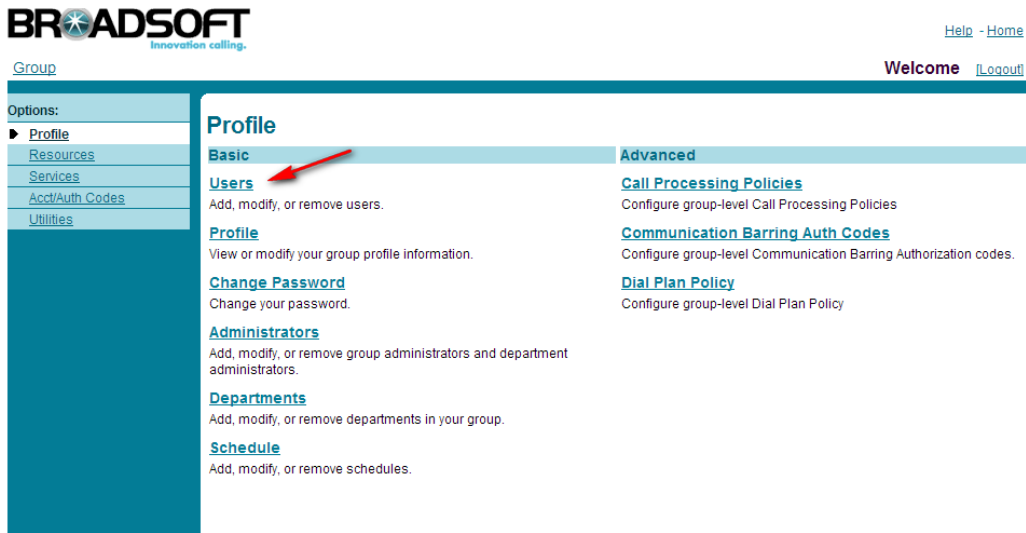
Description:

Outbound Proxy Server:

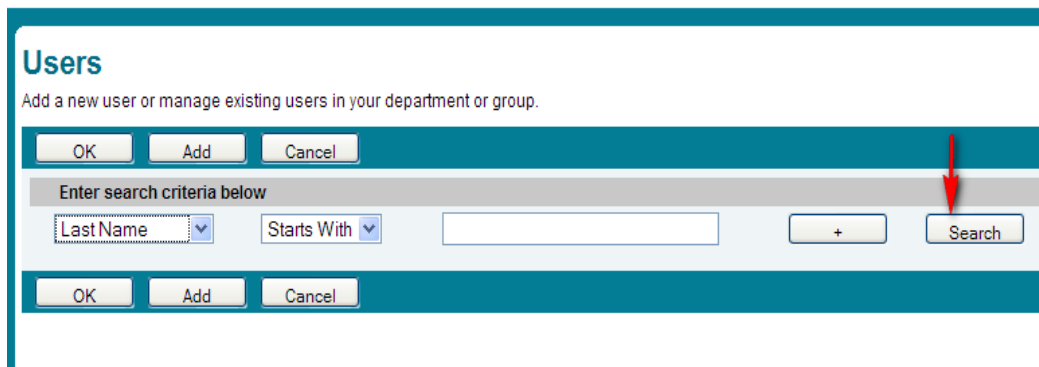
STUN Server:

Physical Location:

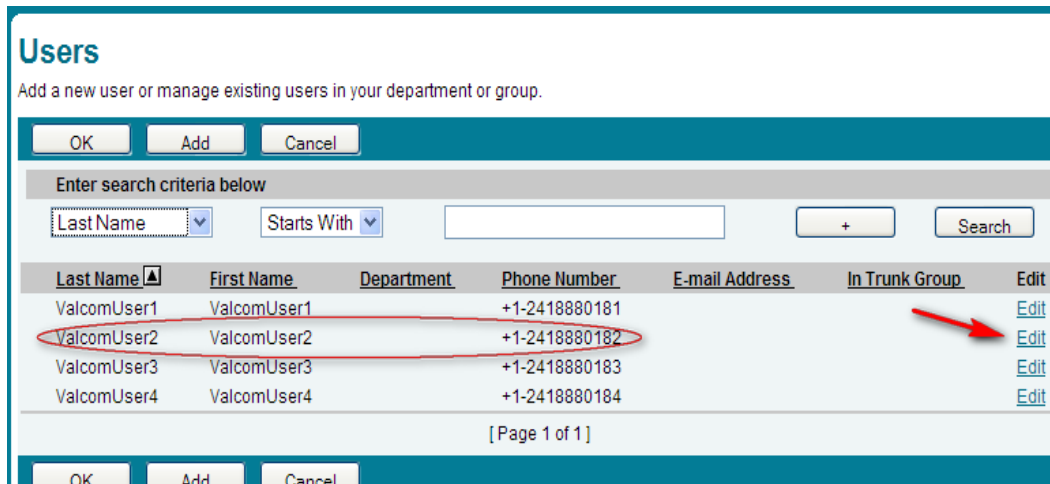
- Return to the Profile page and select Users in the Basic column.



- Click the Search button to list all users, or enter a search string to filter the results. Locate the user created in step 4. In our example, this would be ValcomUser2.



- Click the Edit link on the line with the User to edit this user



11. Select Addresses in the Basic column.

Profile

Basic

Profile
Display and configure profile information such as your name, department and address.

Addresses
Addresses allows you to view and maintain your phone numbers and other identities that are used to make and receive calls.

Passwords
Set web access and portal passwords.

Schedule
Add, modify, or remove schedules.

Advanced

Assign Services
Assign or unassign services and service packs.

Assign Call Centers
Assign or unassign user to a call center as agent.

Call Application Policies
Select Call Control Applications enabled for a user.

Call Policies
Configure user Call Policies

Call Processing Policies
Configure user-level Call Processing Policies

Communication Barring Auth Codes
Configure Communication Barring Authorization codes for a user.

12. On the Addresses page, select the phone number from the list box and enter the extension information. Select Identity/Device Profile option, select the profile to associate (in our example this would be Valcom2 from step 7) and enter the phone number in the Line/Port field. Add the user alias (user from step 4) if needed. Select the appropriate server if more than one is available for your installation. Click the OK button when finished.

Addresses

Addresses allows you to view and maintain your phone number and other identities that are used to make and receive calls.

OK Apply Cancel

Phone Number: 2418880182 Activated

Extension: 0182

Identity/Device Profile Trunking None

Identity/Device Profile

Identity/Device Profile Name: Valcom2 (Group) [Configure Identity/Device Profile](#)

* Line/Port: 2418880182 @ as.iop1.broadworks.net

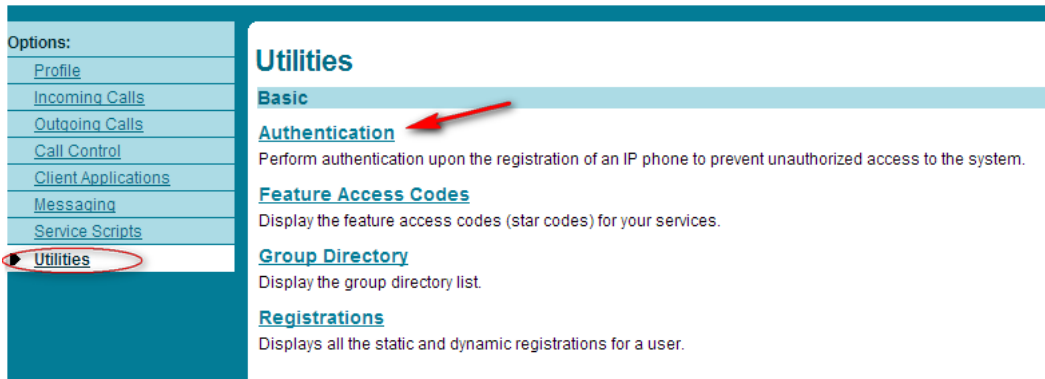
Aliases: sip: ValcomUser2@as.iop1.broadworks.net

sip: @ as.iop1.broadworks.net

sip: @ as.iop1.broadworks.net

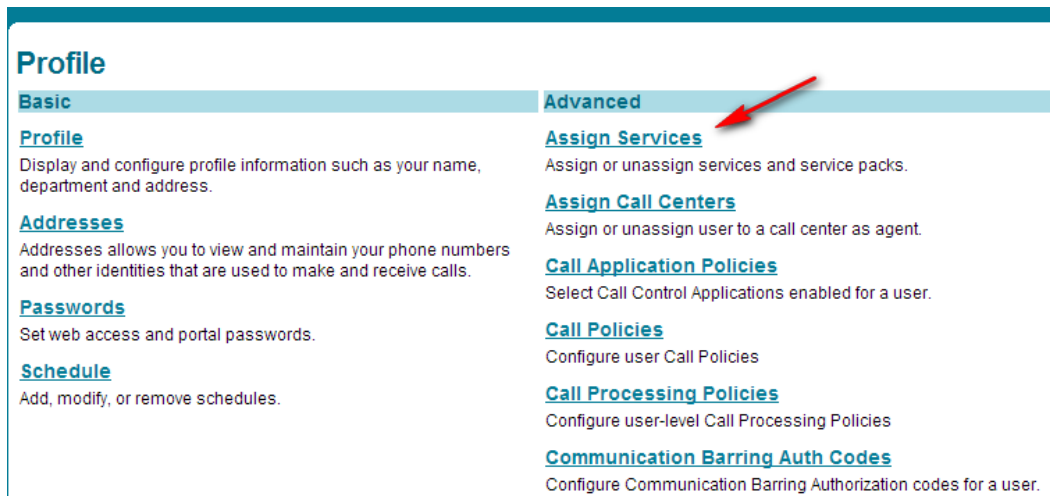
sip: @ as.iop1.broadworks.net

13. If using Authentication, select Utilities from the Options menu. On the Utilities page, click the Authentication link. If the Authentication link is not listed, then the Authentication Service is not enabled for this user.



If Authentication is already enabled, skip to Step 14 to enter the authentication credentials, or skip to Step 15 if not using authentication.

- i) To enable Authentication Service for this user, follow these two steps.
Edit the user account by following previous steps 8, 9, and 10, then select Assign Services from Profile advanced menu.



- ii) Select Authentication from Available Services list, and click the Add button to move it to the User Services list. Click OK to save the change, then return to the beginning of step 13.

Assign Services

Assign Services allows you to assign or unassign services and service packs for a user. If a service or service pack is unassigned the service data that has been filled out will be lost.

OK Apply Cancel

Available Service Packs	User Service Packs
<div style="border: 1px solid gray; height: 100px;"></div>	Advanced Features I Basic Interop Video
<input type="button" value="Add >"/>	
<input type="button" value="Remove <"/>	
<input type="button" value="Add All >>"/>	
<input type="button" value="Remove All"/>	

Available Services	User Services
Authentication	Voice Messaging User
<input type="button" value="Add >"/>	
<input type="button" value="Remove <"/>	
<input type="button" value="Add All >>"/>	
<input type="button" value="Remove All"/>	

- 14. Type in the user name and password information. For our example we used ValcomUser2; this information will be used when configuring the Valcom device in the VIP-102B tool in the next step. Click OK to save this information.

Authentication

Authentication allows you to use encryption to safely determine that the user at a given phone is who they say they are. This helps prevent hijacking of service in hosted communications networks. The user name and password must match the user name and password configured on your phone, or in your phone's configuration file.

OK Apply Cancel

* Authentication User Name:

* Type new authentication password:

* Re-type new authentication password:

OK Apply Cancel

15. Open the Valcom VIP-102B IP Solutions Setup 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, Authentication Name, Secret, SIP Server, Register, SIP Server Port, SIP Port, RTP Port, DNS server addresses (on the Network tab). Other fields are optional.

Note: If using authentication, the Authentication Service must be assigned to the user defined for this device, on the BroadWorks server. Authentication information (from step 14) will be used here.

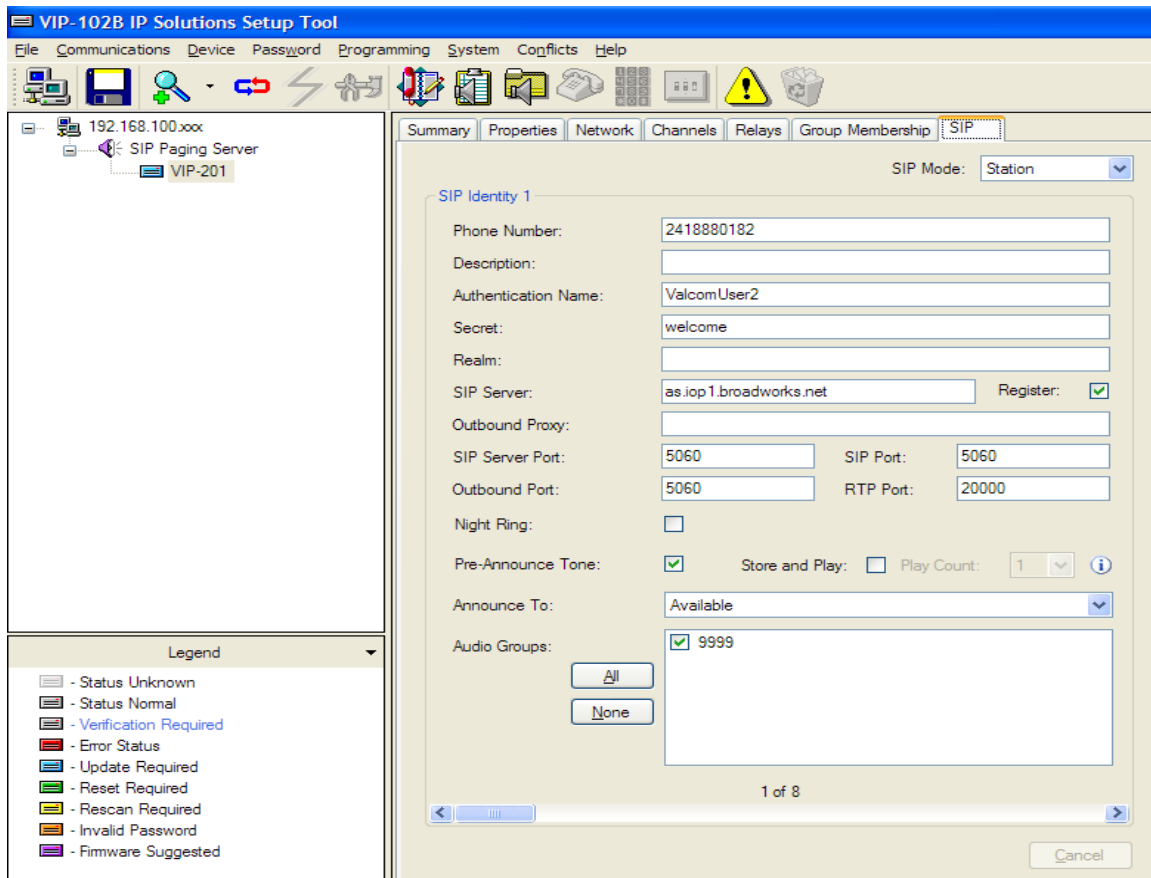
For our example below, the Phone Number is the full 10 digit phone number setup on the BroadWorks Server, “2418880182”.

Authentication Name and Secret are the Authentication credentials set on the BroadWorks server in Step 14.

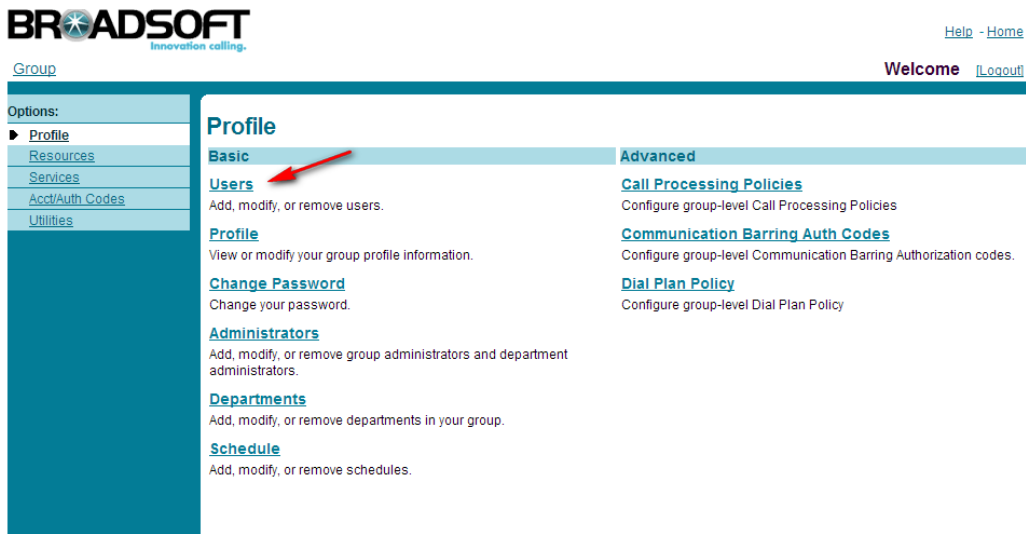
The SIP Server is the name of our BroadWorks Server, “as.iop1.broadworks.net”. Because the server name is used, at least one valid DNS IP address entry must be made on the Network tab. DNS entry is not required if using the IP address of the BroadWorks server. The Register check box is checked, to instruct the VIP device to register with the BroadWorks server.

SIP Server Port is the port number on which the BroadWorks Server is listening for SIP data and 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. The default value is “20000”.

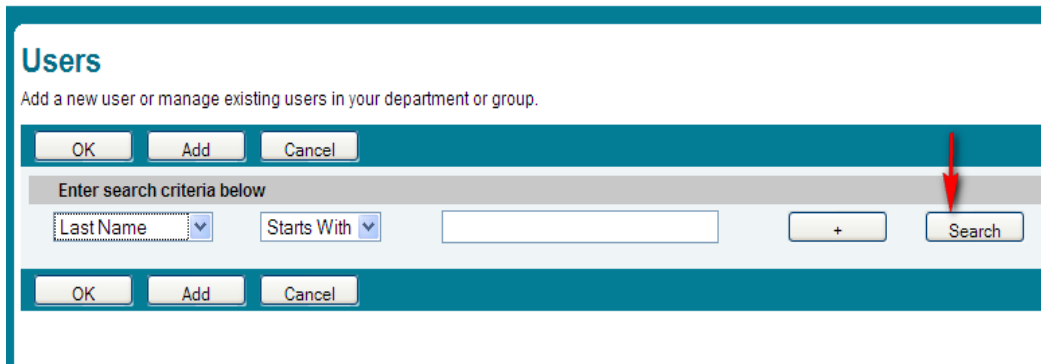
When the Valcom VIP device configuration is complete, select the “Update Changed Devices” button, at the upper left. When the update is complete, click Reset to reboot the Valcom device.



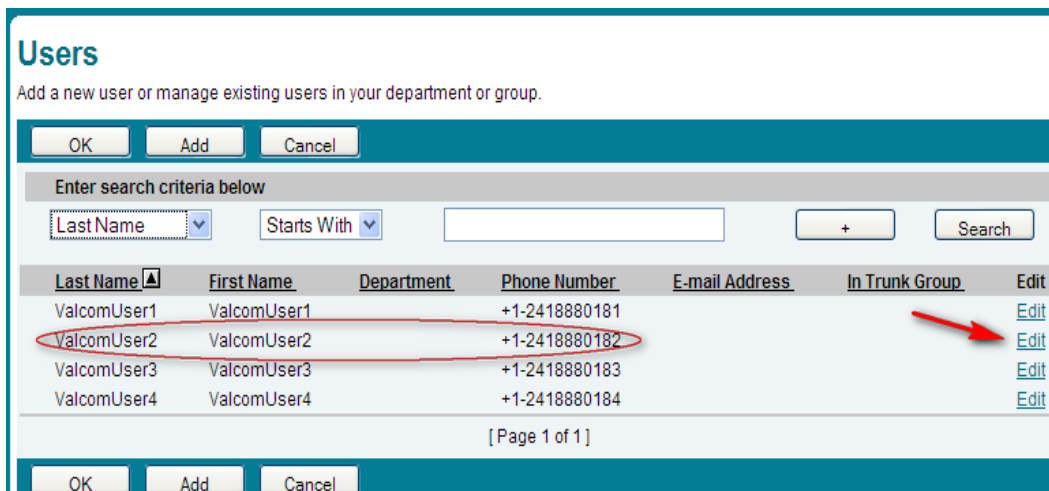
16. To verify registration, return to the BroadWorks webpage. Select Users from the Profile page.



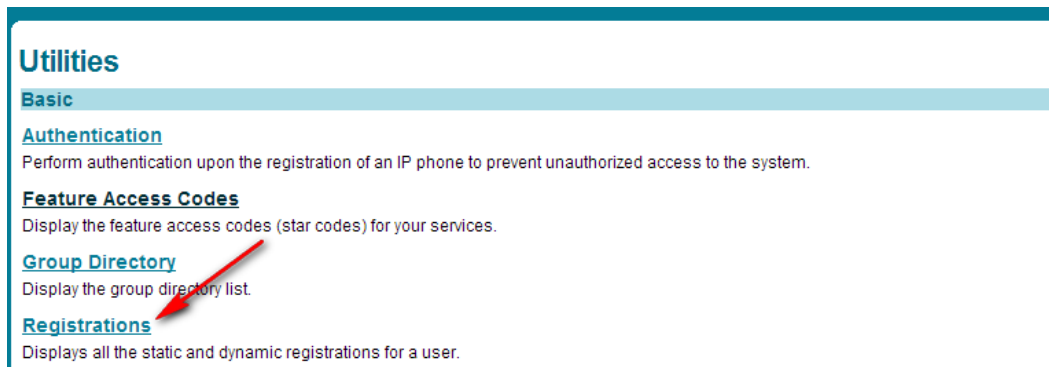
17. Click the Search button to list all users, or enter a search string to filter the results. Locate the user created in step 4. In our example, this would be ValcomUser2.



18. Click edit to edit this user



19. Select Utilities from the options and then Registrations from Utilities page



Utilities

Basic

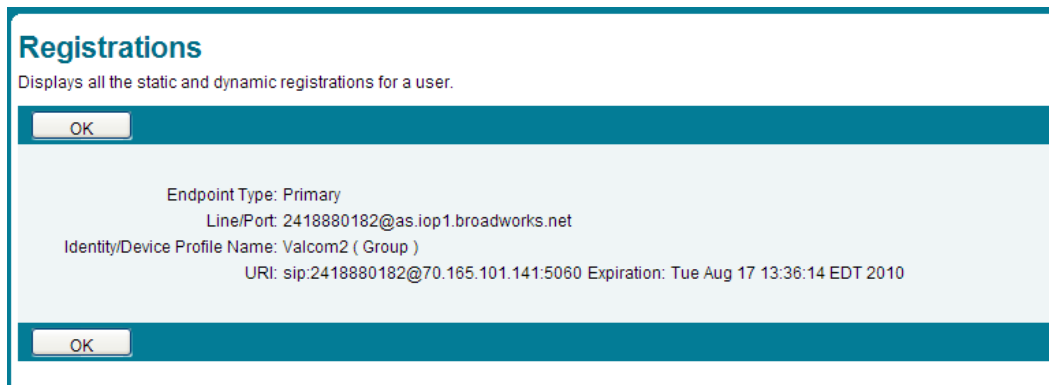
[Authentication](#)
Perform authentication upon the registration of an IP phone to prevent unauthorized access to the system.

[Feature Access Codes](#)
Display the feature access codes (star codes) for your services.

[Group Directory](#)
Display the group directory list.

[Registrations](#)
Displays all the static and dynamic registrations for a user.

20. Valid registration for this user should be displayed similar to this:



Registrations
Displays all the static and dynamic registrations for a user.

OK

Endpoint Type: Primary
Line/Port: 2418880182@as.iop1.broadworks.net
Identity/Device Profile Name: Valcom2 (Group)
URI: sip:2418880182@70.165.101.141:5060 Expiration: Tue Aug 17 13:36:14 EDT 2010

OK