



UTN Videoconferencing Services

Using the UTN Gatekeeper

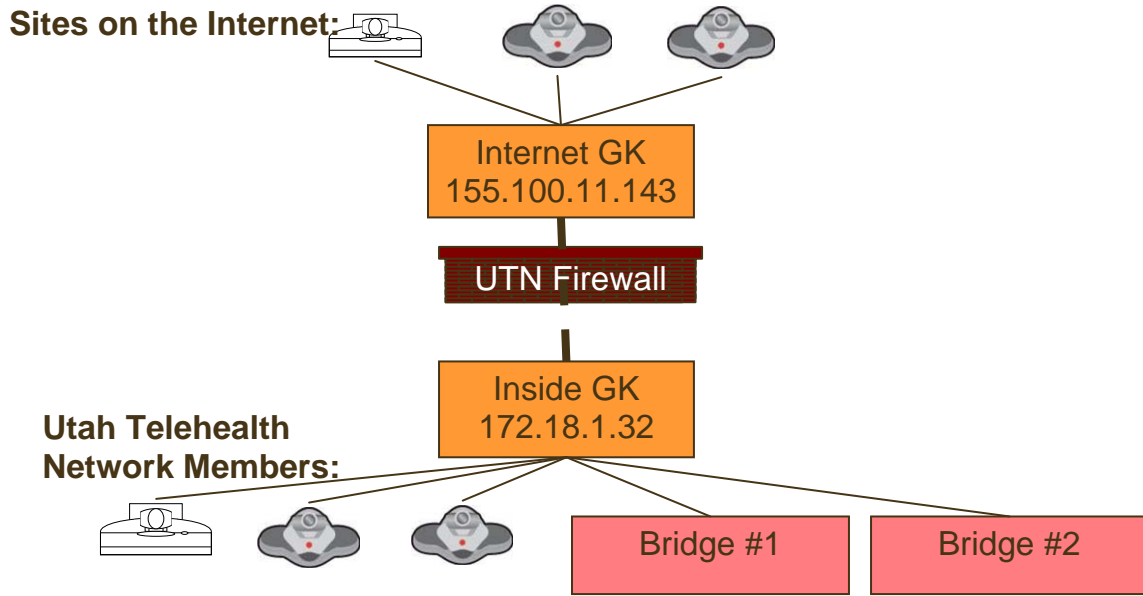
Introduction

There are two very good reasons for a videoconference endpoint located on the UTN network to use the UTN gatekeeper. One is that it may then use call registered devices. The second is that the videoconferencing system can be portable, using DHCP to obtain an IP network address, but still maintain the same videoconference address for use by others.

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Overview



The gatekeeper (GK) accepts the registrations of videoconference clients when they come online, and keeps a table that matches the videoconference address with the IP address of that client. One big advantage of this is that a client may change IP addresses, by moving to another subnet or via a DHCP change, and still be identifiable to other clients by the same videoconference address.

Here is a simple example of the information that the gatekeeper keeps:

Device	E164	H323 Name	IP Address
VCON	71234	Bonneville-DC	128.143.261.128
Polycom	71235	Lakeside-DC	128.143.375.256
Other	71236	Wendy-DC	128.143.667.224

Multipoint videoconferences established on the bridges are registered by default on the gatekeeper, making them accessible by a registered address as well as via an IP address. When dialing to or from a registered codec, E164 = H.323 Name = IP address. Any of them will connect to the desired location.

What is a Videoconference Address

Your videoconference device **must** have an assigned videoconference address to be used when registering with the UTN gatekeeper. Call UTN at 1-801-585-2426 to get it. This will enforce the uniqueness of the address. Like static IP addresses for computers, only one device must have that address. Having an assigned address helps guarantee that uniqueness.

All UTN videoconference addresses start with 7 (like a common area code) followed by 4 digits unique to that device. All 5 digits comprise the E164 address.

How to get a Videoconference Address

Call UTN at 801-585-2426 to get an address. Include your name, department affiliation, and what type of videoconference device you have.

Who may use this gatekeeper?

This gatekeeper is for the use of UTN members.

Basic Configuration Steps

1. Configure the gatekeeper in the videoconferencing equipment
 - a. UTN's gatekeeper for IP addresses on the internet is 155.100.11.143
 - b. UTN members should use 172.18.1.32.
2. Enter the H323 name and E164 address into the videoconferencing equipment.
Call UTN at 801-585-2426 to obtain them.

Firewall warning:

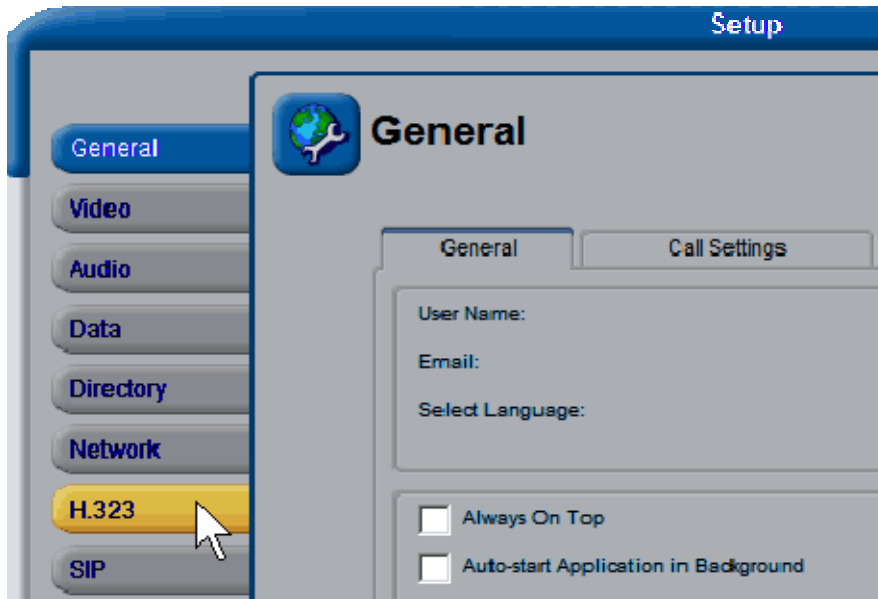
Most sites must open up their firewall in order for videoconferencing to work. Please have your network administrator add UDP port 1720 to their H.323 firewall service. If the client (any type) is behind a firewall, it cannot receive packets from the gatekeeper, so it cannot complete a registration or use gatekeeper services. The gatekeeper is thus not a means of bypassing the restrictions of a firewall.

Polycom PVX Gatekeeper Configuration

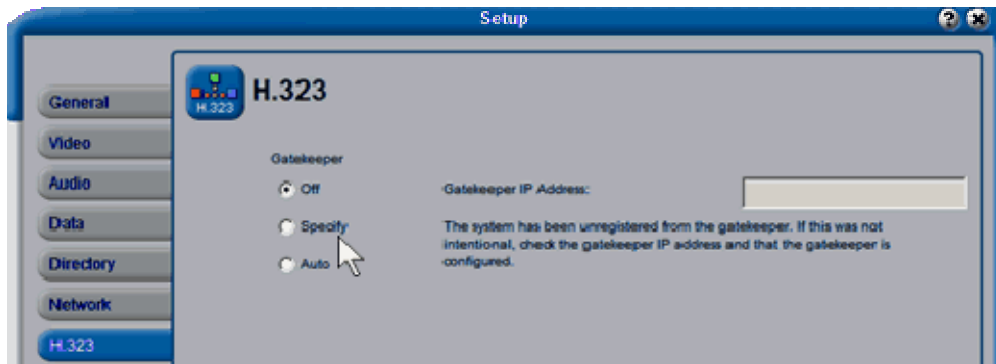
1. In the main PVX window select the Tool icon.



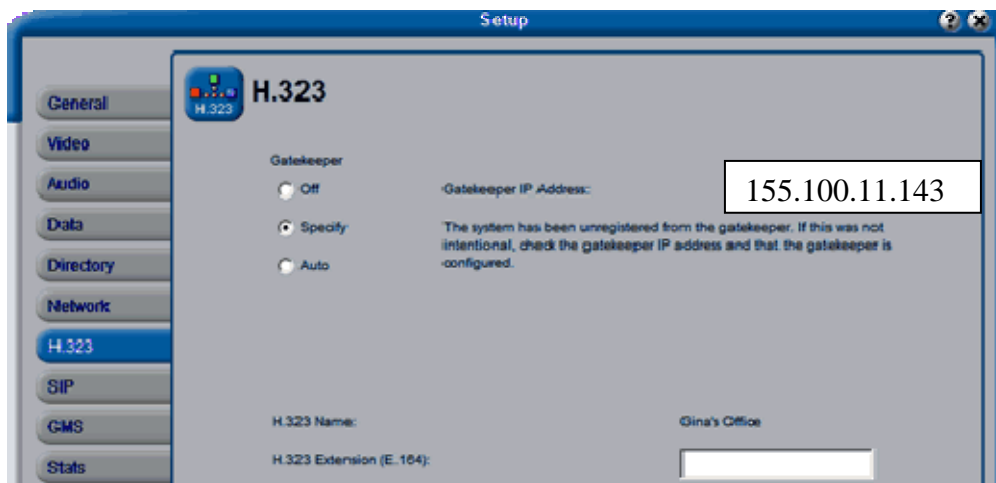
2. The Setup screen is displayed. Pick the H.323 section.



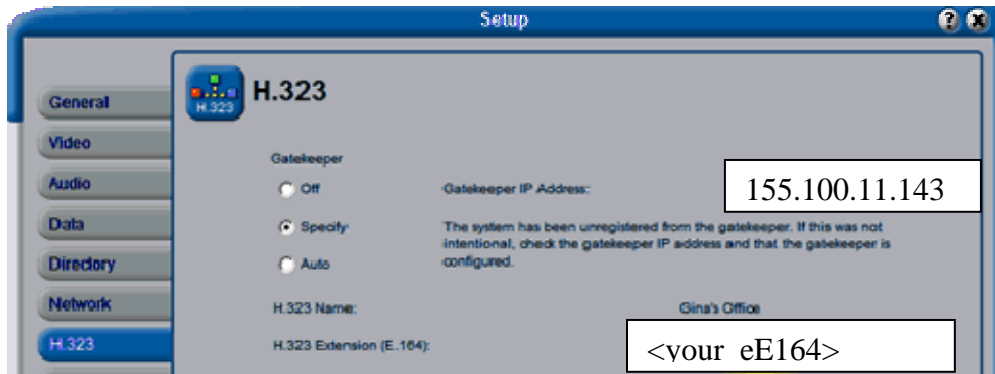
3. Under “Gatekeeper” pick the Specify option.



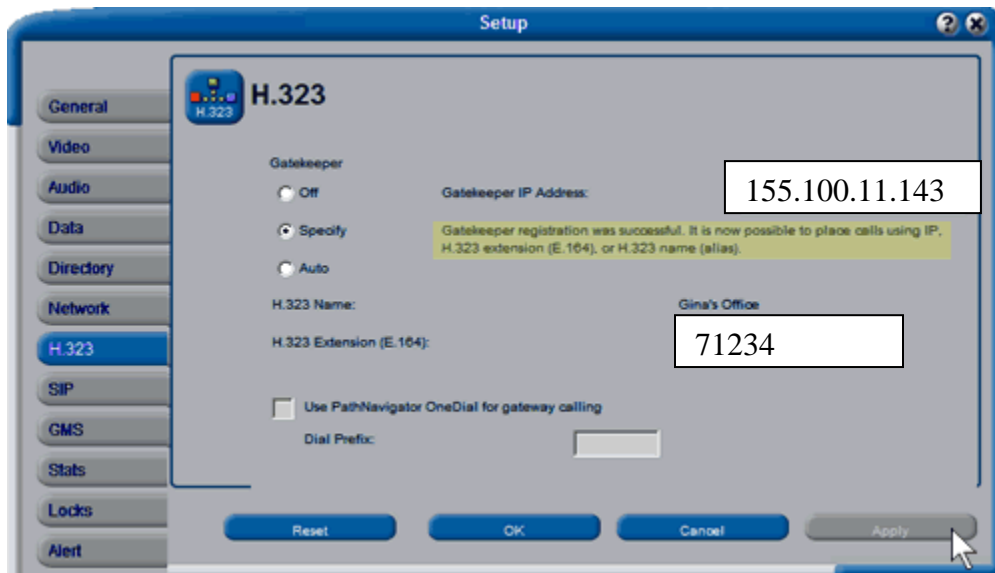
4. The box to the right will become usable. Fill in the UTN gatekeeper address. Sites on the internet should use 155.100.11.143. UTN members should use 172.18.1.32.



5. On the same screen, fill in your H.323 Extension (E.164) address. Call UTN at 801-585-2426 to get it.



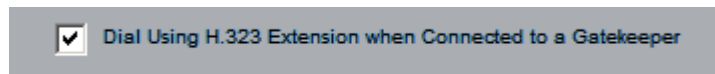
6. Click the Apply button. This will cause gatekeeper registration to immediately be attempted. The result will be displayed as text under the address box.



7. Select the Directory section.



8. Select the “Dial Using H.323 Extension” box.

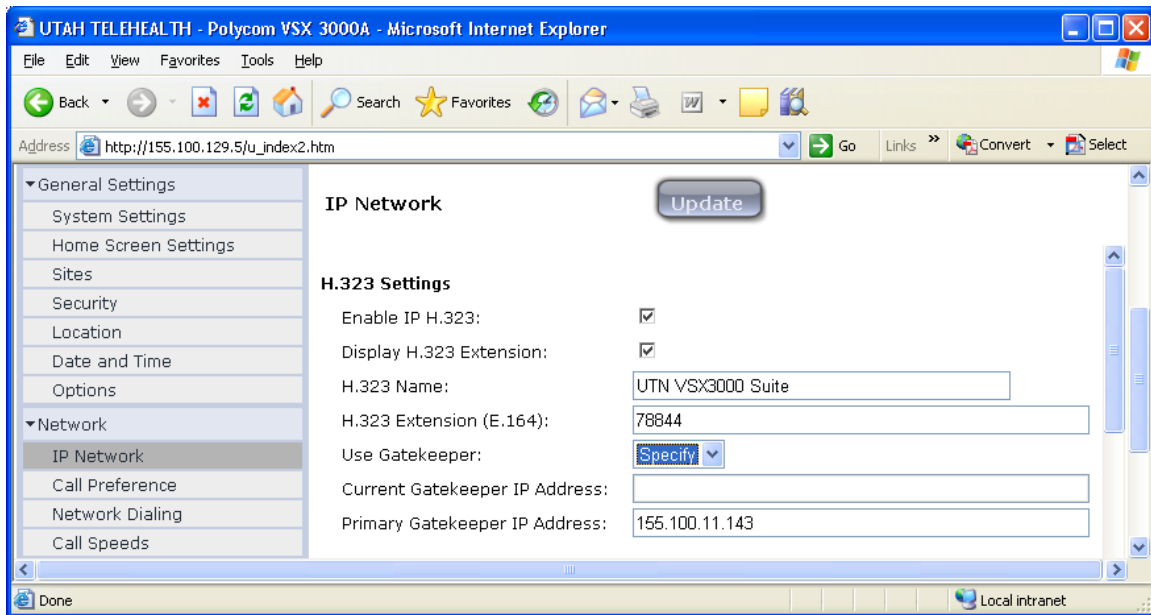


9. Select OK to close the configuration screen.

Polycom VSX & HDX Gatekeeper Configuration

It is sometimes easier to use the web interface rather than the remote control. The navigation is the same either way.

1. Admin Setup > Network > IP Network
2. Get the H.323 Name and E.164 number from UTN by calling 801-585-2426
3. Enter them in the screen
4. Click update. Your VSX & HDX will reboot and be ready to go.



Polycom Viewstation Gatekeeper Configuration

Version 7.5.4

1. The Polycom Viewstation startup screen has four selectable icons.

Choose **System Info**.



A screen with three choices is displayed: **Diagnostics**, **User Setup**, and **Admin Setup**.

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2. Choose **Admin Setup**.

A popup window will display.

3. **Please enter the Admin password.**

- Select the DOT button to bring up the keyboard.
- Remember to use the un-shift key to type lowercased letters.
- The default setting is *shifted*.
- Select the **Enter** key on the keyboard, then select **OK**.

The **Admin Setup** menu is displayed.

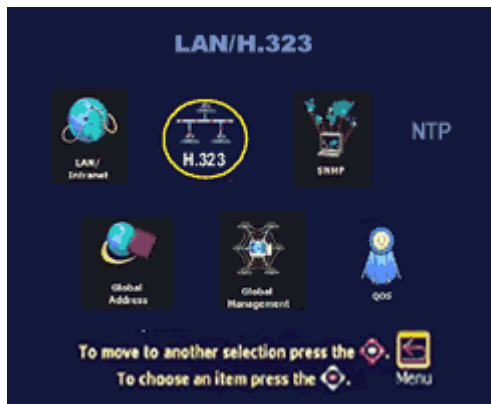
[Your ViewStation needs a password! The interface is controllable via the Web, so without a password anyone on the Internet can access and reconfigure the device. That's bad.]

4. Choose the **LAN/H.323** icon.



The **LAN/H.323** menu is displayed.

5. Choose the **H.323** icon.



The **H.323 Setup** menu is displayed.

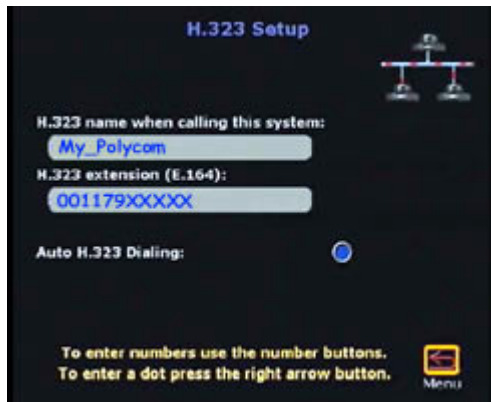
You have two tasks on the next menu.

6. First, choose **Setup**.



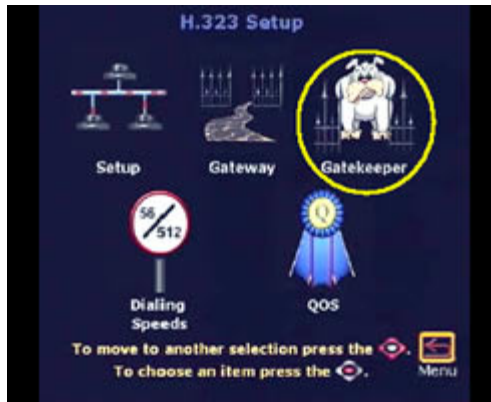
Another **H.323 Setup** menu is displayed.

7. Enter the videoconference address in the fields labeled **H.323 Extension (E.164)**. Enter all 5 digits that were assigned by UTN 801-585-2426.



Choose the **Menu** icon or press the **MENU** key on the remote to return to **H.323 Setup**.

8. On the **H.323 Setup** menu, choose **Gatekeeper**.



9. Click the **Specify** radio button. The field below it becomes enabled.
10. Type the IP address of the gatekeeper in the field. Push the red right arrow button for a period.
 - o UTN’s gatekeeper for IP addresses on the internet is 155.100.11.143
 - o UTN members should use 172.18.1.32.

When you need to insert a period for shorter fields, use the right arrow button.



11. Push **MENU** on the remote or select the **Menu** icon to go back. Do this until a message is displayed saying that the unit will restart. As part of the restart the ViewStation will register with the gatekeeper.

If you would like to confirm the changes, you can look at the System Info screen and see the videoconference address displayed after the IP address. To check the gatekeeper assignment you have to repeat the steps above to get to the Gatekeeper screen. If you don't change anything you can go back to the main screen without causing a restart.