



## Configuring your Firewall to use Cool Telecom voice service

### Inbound traffic

Voice traffic and PBX remote administration may come from any of the following IP addresses so traffic from these IP address ranges need to be allowed through the firewall.

64.2.142.0/24

66.241.96.0/24

66.241.97.0/24

66.241.99.0/24

66.241.111.0/24

68.99.70.0/24 ◀ removed February 2018

68.109.223.0/24 ◀ added January 2018

104.1.127.0/24 ◀ added February 2018

207.166.136.0/24

207.166.137.0/24

The IP address of any remote workers or offices will also need to be allowed, if they are to access the PBX portal. The following assumes a network IP numbering scheme of 192.168.1.1 - 192.168.1.255. Your IP scheme may differ.

### Port Forwarding

SIP	5004-5082	▶	192.168.1.200	(UDP)
RTP	10003-20000	▶	192.168.1.200	(UDP)
ADM	10000-10002	▶	192.168.1.200	(TCP & UDP)
IAX	4569	▶	192.168.1.200	(UDP)
HTTP	80	▶	192.168.1.200	(TCP)
HTTPS	443	▶	192.168.1.200	(TCP)
SSH	22	▶	192.168.1.200	(TCP)

If ports 80 and 443 are already forwarded elsewhere, alternate port forwarding is acceptable such as 8080 (or 8088, 8888) external port forwarded to 80 internal @192.168.1.200 and 4443 (or 4444, 4433) ext. forwarded to 443 @192.168.1.200. Substitute port for SSH can be 2022 (or 2222, 2228)

The CoolerMaster PBX has its own firewall and will further restrict inbound traffic to your phone system.

## Quality of Service (QoS)

SIP 5004-5082 ► Highest Priority  
RTP 10003-20000 ► Highest Priority  
IAX 4569 ► Highest Priority

Everything else should be set to High Priority or lower. The voice traffic will be very low overhead, however, unless it is given highest priority your call quality could suffer.

## Other Settings

**SIP Passthrough** filter needs to be **DISABLED**

**SIP/ALG** needs to be **DISABLED**

(or ENABLED depending on the make and model of the router.)

To allow for static IP addresses for the PBX and the IP phones the **DHCP range** needs to **EXCLUDE** 192.168.1.200 through 192.168.1.255. Ideally, highest DHCP address should be 192.168.1.199. If this is not possible, but another range is, just let us know when we install or move your system.

**For troubleshooting purposes, the DMZ may need to be temporarily set to 192.168.1.200.**

For additional information, please contact Cool Telecom technical support directly at **405.928.8898** or visit [www.CoolTelecom.com](http://www.CoolTelecom.com).