

## Configuring Ports for LifeSize Transit

LifeSize Transit is a firewall traversal appliance that provides secure tunnels for video communications systems through firewalls. This technical note describes the ports a LifeSize Transit server requires to facilitate this traversal with various communication protocols.

You must add rules to your firewall to allow inbound traffic from any IP address and port to the ports listed in the following tables as well as rules to allow outbound traffic from the ports listed in the following tables to any IP address and port. Each table is followed by an example of a full set of firewall rules for using that protocol with LifeSize Transit.

**Note:** The example firewall rules assume that the firewall is configured to allow return traffic on any allowed connection. LifeSize recommends turning off any H.323 and SIP fix up protocols, if possible, as these can cause problems in cases where they are not updated to the latest versions of the H.323 and SIP standards.

### Setting LifeSize Transit Ports for SIP

To use standards-based SIP, enable the in-bound ports listed in the following table for a LifeSize Transit server.

	Signaling Server TCP	Signaling Server UDP	Media Server TCP	Media Server UDP
<b>Basic SIP</b>	5060	5060		
<b>(SIP) STUN</b>		3478, 34501		3478, 34501
<b>(SIP) TURN</b>	3560	3560	3560	3560
<b>(SIP) RTP/Media</b>				45100-45899

### Firewall Rules for SIP with LifeSize Transit

The following is an example set of firewall rules for using SIP/STUN/TURN/RTP with a LifeSize Transit server.

```

Allow SRC_IP=any SRC_PORT=any DST_IP=SignalingIP DST_PORT=5060tcp
Allow SRC_IP=any SRC_PORT=any DST_IP=SignalingIP DST_PORT=5060udp
Allow SRC_IP=any SRC_PORT=any DST_IP=SignalingIP DST_PORT=3478udp
Allow SRC_IP=any SRC_PORT=any DST_IP=SignalingIP DST_PORT=34501udp
Allow SRC_IP=any SRC_PORT=any DST_IP=SignalingIP DST_PORT=3560tcp
Allow SRC_IP=any SRC_PORT=any DST_IP=SignalingIP DST_PORT=3560udp
Allow SRC_IP=any SRC_PORT=any DST_IP=MediaIP DST_PORT=3478udp
Allow SRC_IP=any SRC_PORT=any DST_IP=MediaIP DST_PORT=34501udp
Allow SRC_IP=any SRC_PORT=any DST_IP=MediaIP DST_PORT=3560tcp
Allow SRC_IP=any SRC_PORT=any DST_IP=MediaIP DST_PORT=3560udp
Allow SRC_IP=any SRC_PORT=any DST_IP=MediaIP DST_PORT=45100-45899udp

```

```

Allow SRC_IP=SignalingIP SRC_PORT=5060tcp DST_IP=any DST_PORT=any
Allow SRC_IP=SignalingIP SRC_PORT=5060udp DST_IP=any DST_PORT=any
Allow SRC_IP=SignalingIP SRC_PORT=3478udp DST_IP=any DST_PORT=any
Allow SRC_IP=SignalingIP SRC_PORT=34501udp DST_IP=any DST_PORT=any
Allow SRC_IP=SignalingIP SRC_PORT=3560tcp DST_IP=any DST_PORT=any
Allow SRC_IP=SignalingIP SRC_PORT=3560udp DST_IP=any DST_PORT=any
Allow SRC_IP=MediaIP SRC_PORT=3478udp DST_IP=any DST_PORT=any
Allow SRC_IP=MediaIP SRC_PORT=34501udp DST_IP=any DST_PORT=any
Allow SRC_IP=MediaIP SRC_PORT=3560tcp DST_IP=any DST_PORT=any
Allow SRC_IP=MediaIP SRC_PORT=3560udp DST_IP=any DST_PORT=any
Allow SRC_IP=MediaIP SRC_PORT=45100-45899udp DST_IP=any DST_PORT=any

```

## LifeSize Transit (SIP)

If you plan to use only SIP calls on LifeSize video communications systems (which have an embedded LifeSize Transit client), you need only enable the following ports for the LifeSize Transit server.

	Signaling Server TCP	Media Server TCP
<b>LifeSize Transit (SIP)</b>	443, 444	443, 444

### Firewall Rules for LifeSize Transit SIP Using Tunneled TCP only

The following is an example set of firewall rules for using LifeSize Transit SIP using tunneled TCP only with a LifeSize Transit server.

```

Allow SRC_IP=any SRC_PORT=any DST_IP=SignalingIP DST_PORT=443tcp
Allow SRC_IP=any SRC_PORT=any DST_IP=SignalingIP DST_PORT=444tcp
Allow SRC_IP=any SRC_PORT=any DST_IP=MediaIP DST_PORT=443tcp
Allow SRC_IP=any SRC_PORT=any DST_IP=MediaIP DST_PORT=444tcp

```

## Setting LifeSize Transit Ports for H.323

H.323 is appropriate for external systems that are not behind a firewall or NAT. Enable the ports listed in the following table for LifeSize Transit to use H.323.

	TCP	UDP
<b>(H.323) H.225</b>	1720	
<b>(H.323) H.245</b>	37000-41105	
<b>(H.323) RAS</b>		1719
<b>(H.323) RTP/Media</b>		44100-44899

### Firewall rules for LifeSize Transit using standard H.323

The following is an example set of firewall rules for using H.323 with a LifeSize Transit server.

```

Allow SRC_IP=any SRC_PORT=any DST_IP=SignalingIP DST_PORT=1720tcp
Allow SRC_IP=any SRC_PORT=any DST_IP=SignalingIP DST_PORT=37000-41105tcp
Allow SRC_IP=any SRC_PORT=any DST_IP=SignalingIP DST_PORT=1719udp
Allow SRC_IP=any SRC_PORT=any DST_IP=SignalingIP DST_PORT=44100-44899udp

Allow SRC_IP=SignalingIP SRC_PORT=1720tcp DST_IP=any DST_PORT=any
Allow SRC_IP=SignalingIP SRC_PORT=37000-41105tcp DST_IP=any DST_PORT=any
Allow SRC_IP=SignalingIP SRC_PORT=1719udp DST_IP=any DST_PORT=any
Allow SRC_IP=SignalingIP SRC_PORT=44100-44899udp DST_IP=any DST_PORT=any

```

## Setting LifeSize Transit Ports for H.460

The port settings for LifeSize Transit in the following table are appropriate for H.460 capable systems behind a firewall or NAT.

	TCP	UDP
<b>(H.460) H.225</b>	1720	
<b>(H.460) H.245</b>	1722	
<b>(H.460) RAS</b>		1719
<b>(H.460) RTP/Media</b>		6768, 6769

### Firewall Rules for LifeSize Transit Using H.460

The following is an example set of firewall rules for using H.460 with a LifeSize Transit server.

```
Allow SRC_IP=any SRC_PORT=any DST_IP=SignalingIP DST_PORT=1720tcp
Allow SRC_IP=any SRC_PORT=any DST_IP=SignalingIP DST_PORT=1722tcp
Allow SRC_IP=any SRC_PORT=any DST_IP=SignalingIP DST_PORT=1719udp
Allow SRC_IP=any SRC_PORT=any DST_IP=SignalingIP DST_PORT=6768-6769udp
```

### LifeSize Transit Web User Interface.

To allow access to the LifeSize Transit web user interface, you must allow access to TCP ports 8181 and 8080 on LifeSize Transit. LifeSize recommends you provide this access only to systems behind the firewall or NAT.