LifeSize® Transit™
Installation Guide

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Installation Overview

LifeSize Transit includes LifeSize Transit Server and LifeSize Transit Client. The server and the client software are available preinstalled on 1U rack-mountable devices.
LifeSize Transit Client is also available as a VMware virtual appliance. This guide describes how to install the LifeSize Transit Server and LifeSize Transit Client as 1U rack-mountable devices. For information about installing LifeSize Transit Client as a virtual appliance, refer to the *LifeSize Transit Client Virtual Appliance Installation Guide* available at www.lifesize.com/support.

Installing LifeSize Transit includes installing the server and the client (if purchased) and completing the initial software configuration. After you complete these tasks, you must configure additional settings in the web administration interfaces of LifeSize Transit Server and LifeSize Transit Client, on your firewall, and on video communications systems that you intend to use with LifeSize Transit. Refer to the *LifeSize Transit Deployment Guide* for information about how to complete these tasks for the applicable deployment scenario in your environment. The guide is available at www.lifesize.com/support.

Installation Prerequisites

Complete the following tasks before installing LifeSize Transit:

- LifeSize Transit Server resides in the DMZ on your network. Ensure that the DMZ is a publicly addressable subnet that has a direct, non-NAT route to the Internet.
  LifeSize Transit Client resides in your private network behind a firewall. Read *LifeSize Transit Deployment Guide* to determine the proper placement of LifeSize Transit components in your network and the associated firewall requirements.
- Read *LifeSize Transit Safety and Regulatory Notices* for important safety information. The document is available on the documentation CD-ROM and at www.lifesize.com/support.
- Obtain two static public IP addresses for LifeSize Transit Server—one for the signalling server and one for the media server.
- Obtain the IP address of a primary and secondary DNS server for configuring LifeSize Transit Server. These can be public DNS servers. LifeSize Transit Server fails to function properly if a valid DNS server is not available.
- If your installation includes LifeSize Transit Client, obtain a static private IP address for this device.
- Obtain a network cable for each LifeSize Transit device that you intend to connect to your network.
- Obtain a serial console running at 38,400 baud, no parity (N, 8, 1). This is required to complete the initial software configuration for the server and client.

LifeSize Transit Components

Server:

- LifeSize Transit Server (a 1U rack-mountable device)
- 3 meter (9.8 feet) RS-232 null modem serial cable
- power cord

Client:

- LifeSize Transit Client (a 1U rack-mountable device)
- 3 meter (9.8 feet) RS-232 null modem serial cable
- power cord

Deployment Considerations

Choose a location in a clean, dust-free area that is well ventilated. Avoid areas where heat, electrical noise, and electromagnetic fields are generated. Choose an area near a grounded power outlet. If you intend to mount LifeSize Transit in a new or existing rack, refer to “Installing LifeSize Transit in a Rack” on page 9.

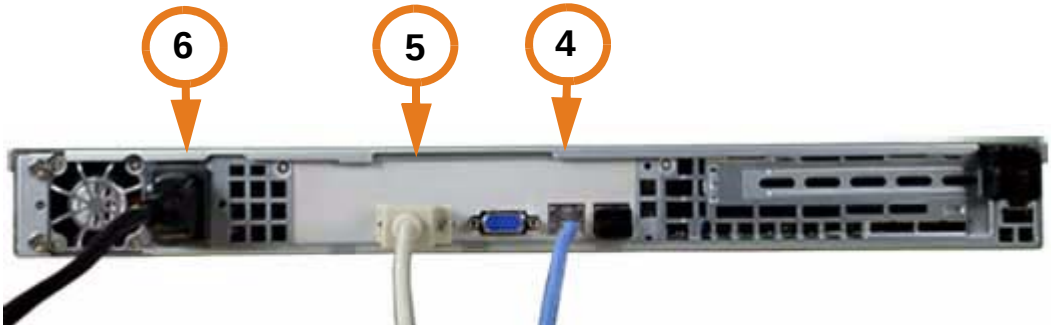
Installing LifeSize Transit

The same hardware installation procedure applies to both LifeSize Transit Server and LifeSize Transit Client. The information needed to complete the initial software configuration is specific to the device and described in separate sections in this guide.

> ***Note:*** LifeSize Transit Server and LifeSize Transit Client are identical in appearance except for the product label on the front of the devices. If you are installing both devices, check the product label on the front of each device to ensure that you are installing the device in the intended location.

1. Remove all components from the product packaging, including cables, and place them in the desired positions in your environment.
2. If you are installing either device in a rack, refer to “Installing LifeSize Transit in a Rack” on page 9.

3. The numbers in the following photograph correspond to the numbered steps that follow it.



4. Insert a network cable into network port 1 on the back of the device. Insert the opposite end of the network cable into a network port on the wall.

   Note: Network port 1 is to the left of network port 2 when you are facing the back of the device. Network port 2 contains a plug and is reserved for future use.

5. Ensure that your console terminal is running at 38,400 baud, no parity (N, 8, 1). Connect your console to the serial port for the initial configuration using the serial cable included with the product.

6. Insert the power cord into the back of the device and the opposite end into a grounded power outlet.

7. Press the power button on the front of the device.

8. Complete the initial configuration. For LifeSize Transit Server, refer to “LifeSize Transit Server Initial Configuration” on page 6. For LifeSize Transit Client, refer to “LifeSize Transit Client Initial Configuration” on page 7.

LifeSize Transit Server Initial Configuration

After you apply power, the device boots, and you are prompted to configure it the first time. If the configuration does not automatically appear on your console, press **Enter** to display it. You can return to this configuration at any time to change settings (such as server IP addresses or the administrator password), restart the device, or load default settings.

The initial configuration screen for LifeSize Transit Server includes a series of numbered options that you access by entering the number associated with the setting that you wish to modify. You can also access help for each option by entering `H`.

1. *Optional*: You can change the date and time of the system clock from the **Set Date and Time** setting.

   Enter the date in the following format: MMDDHHmmYYYY, where MM is the month, DD is the date, HH is the hour (in 24-hour format), mm is the minute, and YYYY is the year. For example, August 10, 2010, 3:30 pm is the following:

   081015302010

2. Enter the IP address, subnet mask, and gateway for the Signalling Server.

3. Enter the IP address for the Media Server.

4. Enter the IP address for the primary and secondary DNS server.

5. *Optional*: You can also change the administrator username and password for accessing the web administration interface of LifeSize Transit Server through a web browser. If an SSL option exists, do not select this option during the initial configuration. Refer to the *LifeSize Transit Release Notes* for more information.

   Note: For security reasons, LifeSize recommends you change the default administrator password during the initial configuration. The default username and password are both *admin*. The username and password can contain any US-ASCII character.

6. *Optional*: You can change the **Ethernet Link Setting** to override the default link auto negotiation of the Gigabit NIC.

7. *Optional*: You can configure the **UDP Port Range** to use for media communication by entering the starting and ending numbers for the range. Refer to the *LifeSize Transit Deployment Guide* for more information about allocated ports for SIP, H.323, and H.460.

8. After making your changes, choose option **9 - Save Settings and Restart System**.

9. Refer to the *LifeSize Transit Deployment Guide* to complete additional software configuration tasks in the web administration interface of LifeSize Transit Server, on your firewall, and, if applicable to your deployment, on video communications systems that you intend to use with LifeSize Transit. The guide is available at www.lifesize.com/support.

LifeSize Transit Client Initial Configuration

After you apply power, the device boots, and you are prompted to configure it the first time. If the configuration does not automatically appear on your console, press **Enter** to display it. You can return to this configuration at any time to change settings (such as the IP address or administrator password), restart the device, or load default settings.

The initial configuration screen for LifeSize Transit Client includes a series of numbered options that you access by entering the number associated with the setting that you wish to modify. You can also access help for each option by entering `H`.

1. *Optional*: You can change the date and time of the system clock from the **Set Date and Time** setting.

   Enter the date in the following format: MMDDHHmmYYYY, where MM is the month, DD is the date, HH is the hour (in 24-hour format), mm is the minute, and YYYY is the year. For example, August 10, 2010, 3:30 pm is the following:

   081015302010

2. By default, the **IP Source** setting is **Static**. Optionally, you can change this to acquire the IP address through DHCP.

3. Enter the client IP address, subnet mask, gateway, and DNS server IP addresses.

4. *Optional*: You can also change the administrator username and password.

   Note: For security reasons, LifeSize recommends you change the default administrator password during the initial configuration. The default username and password are both *admin*. The username and password can contain any US-ASCII character.

5. *Optional*: You can change the **Ethernet Link Setting** to override the default link auto negotiation of the Gigabit NIC.

6. After making your changes, choose option **7 - Save Settings and Restart System**.

7. Refer to the *LifeSize Transit Deployment Guide* to complete additional software configuration tasks in the web administration interfaces of LifeSize Transit Server and LifeSize Transit Client, on your firewall, and, if applicable to your deployment, on video

communications systems that you intend to use with LifeSize Transit. The guide is available at www.lifesize.com/support.

Power and Reboot

The power button applies or turns off the main system power. Turning off the system power with this button removes the main power but keeps standby power supplied to the system.

The **Reset** button on the front panel reboots the system.

LED Status

The LED indicators, from left to right on the front of the device, indicate the following conditions:

LED	Icon	Indicator
Overheat/Fan Failure		When this LED flashes, it indicates a fan failure. When on continuously, it indicates an overheat condition, which may be caused by cables obstructing the airflow in the system or the ambient room temperature being too warm. Check to ensure that the chassis cover is installed securely. This LED remains flashing or on continuously for as long as the condition exists.
NIC2		Reserved for future use.
NIC1		Indicates network activity on LAN1 when flashing.
HDD		Reserved for future use.
Power		Indicates power is being supplied to the system's power supply unit. This LED should be illuminated when the system is operating.

Installing LifeSize Transit in a Rack

LifeSize Transit Server and LifeSize Transit Client do not ship with a rack rail hardware package. Each device can be rack mounted without the use of rails.

Rack Mounting Considerations

Before you install the server or client in a rack, consider the following:

Consideration	Description
Rack Stability	Ensure that the leveling jacks on the bottom of the rack are fully extended to the floor with the full weight of the rack resting on them. In a single rack installation, attach stabilizers to the rack. In multiple rack installations, couple the racks together.
Air Flow and Access	Leave enough clearance (approximately 25 inches or 63.5 centimeters) in front of the rack to enable you to open the front door completely. Leave approximately 30 inches (76.2 centimeters) of clearance in the back of the rack to allow for sufficient airflow and ease in servicing.
Ambient Operating Temperature	If you install the device in a closed or multi-unit rack assembly, the ambient operating temperature of the rack environment may be greater than the ambient temperature of the room. Therefore, consider installing the equipment in an environment compatible with the manufacturer’s maximum rated ambient temperature.
Circuit Overloading	Consider the connection of the equipment to the power supply circuitry and the effect that any possible overloading of circuits might have on overcurrent protection and power supply wiring. Give appropriate consideration to equipment nameplate ratings when addressing this concern.
Reliable Ground	A reliable ground must be maintained at all times. To ensure this, the rack itself should be grounded. Pay particular attention to power supply connections other than the direct connections to the branch circuit (the use of power strips, for example.)

To install either the server or the client in a rack, follow these steps:

1. Ensure the rack is in a location in a clean, dust-free area that is well ventilated. Avoid areas where heat, electrical noise, and electromagnetic fields are generated. Choose an area near a grounded power outlet.
2. Each device includes two rack mounting brackets located on each side at the front of the chassis. To mount the device into a rack, screw these brackets directly to the front of the rack (two screws for each bracket).