



Getting Started Guide

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Polycom® RealPresence® Capture Server - Virtual Edition Getting Started Guide



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Polycom, Inc.
6001 America Center Drive
San Jose CA 95002
USA

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About This Guide

This guide explains how to install and set up the Polycom RealPresence Capture Server, it will step you through how to record your first video call and how to play the media file in a compatible web browser. The topics in this guide include:

- [Set up RealPresence Capture Server](#)

Gives a general introduction of this product and describes the steps required to perform the initial installation and setup.

- [Record and View Meetings](#)

Details how to record your first video call, view live streaming and how to play back the archive media file in a compatible web browser.

Set up RealPresence Capture Server

The following sections give a general introduction of the RealPresence Capture Server and describe the steps required to perform the initial installation and setup.

- [RealPresence Capture Server Introduction](#)
- [Before You Begin](#)

RealPresence Capture Server Introduction

The Polycom® RealPresence Capture Server is a streaming and recording system that participates in standards-based video and telepresence calls that can be used alone or as an integrated component of Polycom Video Content Management solution. As a native part of the Polycom RealPresence Platform, the RealPresence Capture Server records, archives, and streams telepresence and video conferences for playback on a variety of client devices including tablets, smart phones, desktop computers, and standards-based video endpoints.

By leveraging RealPresence Capture Server with existing telepresence systems, video conferencing endpoints and video infrastructure, or familiar unified communications (UC) tools, your organization can easily convert real-time conferences and events into reusable multimedia assets. Following are some features of RealPresence Capture Server:

- It integrates with Polycom endpoints and conference platforms for automated recording and playback.
- It supports H.323 and Session Initiation Protocol (SIP) standards for interoperability with third-party conferencing systems.
- It can output a maximum stream (live or video on demand) of 720p HD (people + content combined).
- It provides access to live and video call archive streams on devices with compatible browsers including PC, MAC, iOS, and Android devices.
- It is best when integrated with the Polycom RealPresence Media Manager version 6.6 for enhanced content management, auto-publishing, and streaming scalability.

Polycom now offers a virtual edition of the RealPresence Capture Server system, this edition is packaged as an Open Virtualization Archive (OVA) file. The OVA file contains the RealPresence Capture Server application and information about its virtual machine environment. It can be installed as a virtual instance on a host machine running VMware vSphere.

Before You Begin

The following table shows the hardware requirements for the RealPresence Capture Server - Virtual Edition.

Hardware Requirements

Component	Description
Virtual Cores	Each instance must have a minimum of 8 virtual cores. Also see Resource and License Management .
CPU	The recommended CPUs are: <ul style="list-style-type: none">• 2.67GHz (Intel® Xeon® CPU x5650@ 2.67GHz or better) CPU• 2.90GHz (Intel Xeon CPU E5-2690 @ 2.90GHz or better) CPU
Minimal RAM	16 GB
Minimal Accessible Storage	120 GB
NFS Storage	Refer to the media storage disk space warning threshold set under Configuration > Media Storage Setting , this value should not be less than this threshold value.

Software Requirements

RealPresence Capture Server - Virtual Edition is supported on VMware vSphere 5.1/5.5. Before you install and configure the RealPresence Capture Server system, you need the following:

- VMware vSphere 5.1/5.5 client installed where you can access the ESXi host
- Login credentials and IP addresses of one or more VMware vSphere hosts on which you will deploy your RealPresence Capture Server OVA
- A web browser where you access the Viewer Portal. See [table "Web Browser Requirements"](#) for the supported versions

For VMware vSphere ESXi and client v5.1 or 5.5 installation guide, refer to [VMware website](#).

Resource and License Management

For the 1st installation of Virtual Edition, the 90-day trial license provides 6/3 capacity and basic functions. To permanently enable the Capture Server system and enjoy the full capabilities, a RealPresence Capture Server license is required. For this release, the 6/3 model is supported for Virtual Edition only, which is different from the Appliance Edition.

Licence of Capability

License
6 Calls Record
3 Calls (of the 6 total calls) stream live

Web Browser Requirements

The following table shows the web browser requirements for RealPresence Capture Server.

Operating System	Browser Name	Version
PC (Windows 7 and Windows 8)	Internet Explorer	9, 10, 11
	Firefox	26, 27
	Chrome	32, 33
MAC OS-X (Intel-based Leopard, Snow, and Lion)	Safari	7.0.1
	Firefox	26, 27
	Chrome	32, 33
iOS (iPad 2/air/mini, iPhone 4S/5)	Safari	6.1.3, 7.0.3
Android Tablet (Samsung GT-P5210 and GT-N5100)	Android browser	4.1.2, 4.2.2, 4.3
Android Phone (Samsung Galaxy S4 and Galaxy Note3)	Android browser	4.1.2, 4.2.2, 4.3

Set up RealPresence Capture Server in a Virtual Environment

The following steps assume you are familiar with deploying applications into a VMware environment.

For more information about deploying applications into a VMware environment, see [VMware website](#).

To set up RealPresence Capture Server in a virtual environment:

- 1 Obtain the RealPresence Capture Server OVA package.
- 2 Deploy the OVA file into the VMware vSphere hosts that you have set up.



If the VMware vSphere host is very busy or it does not meet the RealPresence Capture Server hardware requirements, the deployment may fail. See [table "Hardware Requirements"](#) for details.

- 3 From the vSphere client, select the virtual instance you installed and power it on.
- 4 Click the **Summary** tab and note down the IP address of RealPresence Capture Server system assigned by DHCP.

Set up NFS Media Storage

Configure NFS

Capture server virtual edition requires a NFS share as its media storage. The procedure below demonstrates how a NFS share is configured on a typical Linux distribution.

Make sure that NFS is co-located on the same switch/location as the Capture Server system to ensure stable I/O operations.

To export a shared storage location via NFS on a typical Linux system, CentOS used in below example:

- 1 Make sure the NFS service has been installed and is running.

Examples:

```
[root@centos-nfs ~]# service nfs status
rpc.svcgssd is stopped
rpc.mountd (pid 20129) is running...
nfsd (pid 20194 20193 20192 20191 20190 20189 20188 20187) is running...
rpc.rquotad (pid 20125) is running...
```

- 2 Edit NFS configuration file /etc/exports to set the file system paths for export.

Examples:

```
[root@centos-nfs ~]# cat /etc/exports
/home/nfs *(rw,no_root_squash)
/home/nfs_zip_1 192.168.9.78(rw,no_root_squash)
```

- 3 Restart the NFS service.

Examples:

```
[root@centos-nfs ~]# service nfs restart
Shutting down NFS daemon: [ OK ]
Shutting down NFS mountd: [ OK ]
Shutting down NFS quotas: [ OK ]
Shutting down NFS services: [ OK ]
Starting NFS services: [ OK ]
Starting NFS quotas: [ OK ]
Starting NFS mountd: [ OK ]
Stopping RPC idmapd: [ OK ]
Starting RPC idmapd: [ OK ]
Starting NFS daemon: [ OK ]
```

To save your media files on a network file system:

- 1 Click **Configuration > Media Storage Settings**.
- 2 Configure the following settings for the network file system.

Media Storage Setting

Parameter	Description
NFS Server Name	Optional. Enter a name for the NFS server.
NFS Server Address	Enter an IP address of the NFS server.
NFS Storage Folder	Specify the folder path to the NFS storage.
Test	Test whether the media storage settings work.
Synchronize archives when storage setting changed	Once this is enabled, archives will be synced up automatically after each system reboot.
Send warning e-mail to Admin when remaining NFS free space reaches: (GB)	Set a NFS storage space threshold. You can set a value in the range of 10-50GB. After the system reaches the threshold, RealPresence Capture Server will send notifications to Admin users.

3 Click **Test** to check the configured NFS server usability.

4 Click **OK**.

Make sure there is enough space on the new network storage, follow the on-screen prompt to reboot the system.

Initial System Configuration

To configure the system for use, you need a compatible web browser to access and use the Administration user interface (Hereafter referred to as Admin Portal) to achieve this. The initial configuration consists of three steps:

- Obtain the Product Activation Key from Polycom
- Set the RealPresence Capture Server IP address
- Set up the Gatekeeper

Obtain Product Activation Key from Polycom

A new installation of RealPresence Capture Server version 1.6 Virtual Edition comes with a 90-day trial license.

To obtain the product activation key:

- 1 Go to **Admin > Product Activation** to obtain the serial number. Write it down for later use.
- 2 Enter the following web site address in the address bar of the web browser: support.polycom.com. and go to **Support Home**.
- 3 Go to **Licensing & Product Registration > Activation/Upgrade**.
- 4 Click **All other Polycom Products** in the pop-up window.
- 5 Enter your e-mail address and password to log in to or register for a new account.
- 6 Follow the page prompts step by step to generate the Key Code required for system activation.
- 7 Enter the **Serial Number** you recorded and click **Next**.

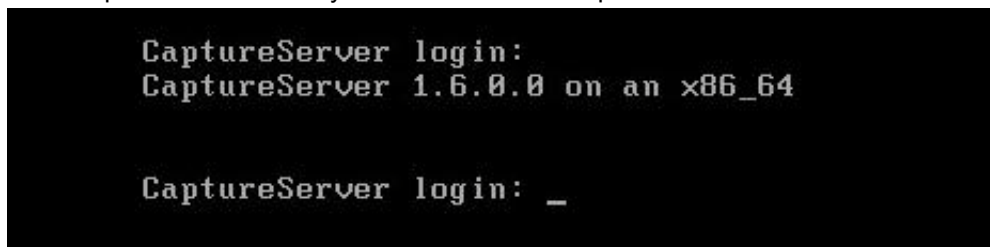
- 8 Follow the page prompts step by step to generate the Key Code required for system activation.
- 9 Note down the activation key (Key Code) on the page and click **Upgrade**.
- 10 Go to **Admin > Product Activation** on Admin Portal and activate the system.

Set RealPresence Capture Server IP Address

By default, when a new RealPresence Capture Server system is started, it obtains an IP address from the DHCP server automatically. Follow the steps below to check the IP address assigned by DHCP server.

To view the system IP address in the RealPresence Capture Server's console:

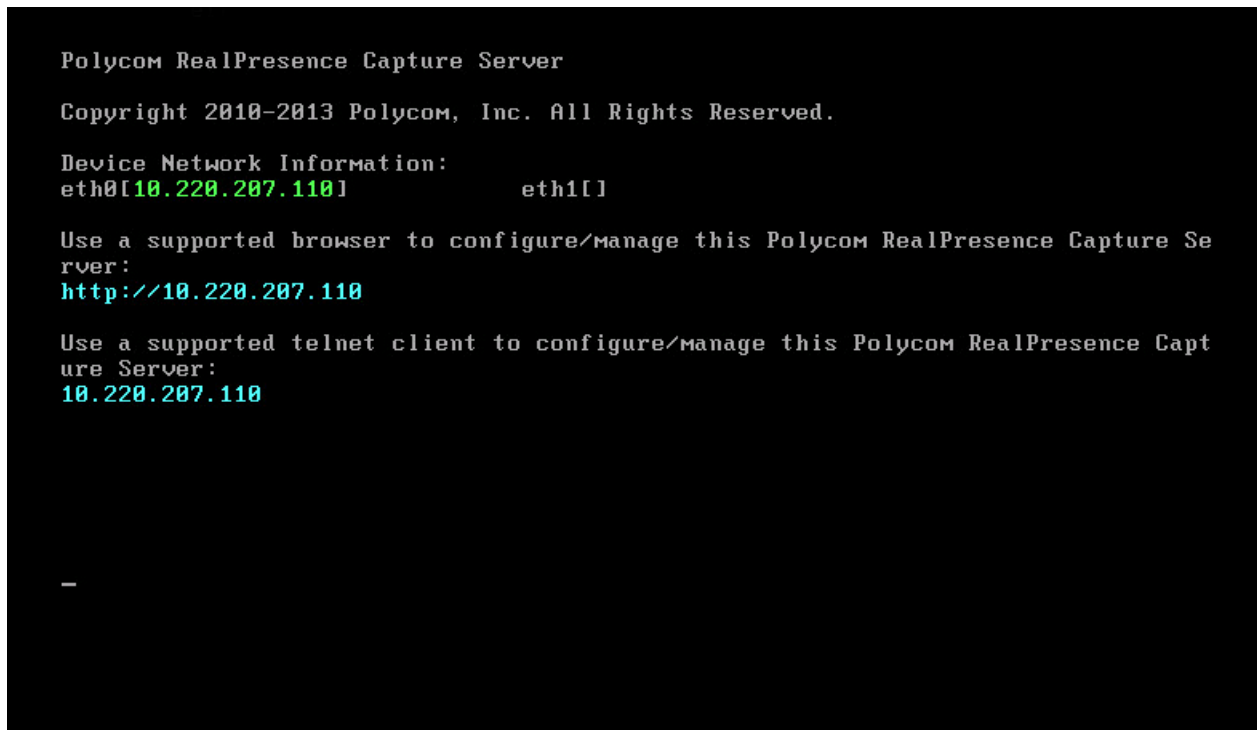
- 1 Open the console of your RealPresence Capture Server.



```
CaptureServer login:
CaptureServer 1.6.0.0 on an x86_64

CaptureServer login: _
```

- 2 The default console display is shown in the next illustration



```
PolyCOM RealPresence Capture Server
Copyright 2010-2013 PolyCOM, Inc. All Rights Reserved.

Device Network Information:
eth0[10.220.207.110]          eth1[]

Use a supported browser to configure/manage this PolyCOM RealPresence Capture Server:
http://10.220.207.110

Use a supported telnet client to configure/manage this PolyCOM RealPresence Capture Server:
10.220.207.110

_
```

- 3 The IP address displayed on console is shown in the above illustration, for example:
http://10.220.207.110

Two ways are available for setting the system IP:

- If you do not have a DHCP server in your network, you can assign the system a static IP from the RealPresence Capture Server's console.
 - If you have a DHCP server in your network, you can modify the RealPresence Capture Server IP address in the Admin UI. See [To change the system's initial IP settings from the Admin Portal](#):
- 4 Type **Alt+F2** keys to go to the login screen.
 - 5 Enter the user name and password (both are **polycom** by default).
 - 6 After logging into the system, you may enter ? or help after the prompt # to show the command prompt information.
 - 7 Set RealPresence Capture Server a static IP for LAN interface using the commands shown in the following table. For normal usage, only LAN1 IP address setting is required.

Command	Description
<pre>set {lan1 lan2} ip static {ip} netmask {mask } gw {gateway}</pre>	<p>Set the IP address for LAN1.</p> <p>For example, set lan1 ip static 192.168.1.254 netmask 255.255.255.0 gw 192.168.1.1</p>

- 8 After you set the IP, restart the system to apply the changes.

To activate the system

- 1 In the address line of the web browser, enter **http://ip** address of your Capture Server's Admin Portal, for example, **http://192.168.1.254/admin**.
The Admin Portal of the Capture Server system displays.
- 2 (Optional) Click **Select language** and select a language for the Admin Portal.
- 3 Enter the default administrator's user name (*admin*) and password (*Polycom123*), and then click **Log In**.
- 4 Change your password and click **OK**.
- 5 Go to **Admin > Product Activation**, enter the activation key and click **Update**.
Note that when you copy and paste activation key, it is best to paste the key into Notepad first to remove any formatting and ensure that no trailing spaces are present. Copy only the key, and paste it into the **Activation** field.
- 6 Select **Reboot Later** to proceed with setting the IP address.

To view the system activation status:

- » Go to **Admin > Product Activation**. Below system information are displayed:

Parameter	Description
License Type	Permanent license.
Software Version	Current version of the software running on the system.
Serial Number	The product serial number

Activation Status	Whether the system is activated, after the system is successfully activated, Active displays.
Max Recording Ports	Maximum number of recording ports supported by the system.
Max Live Streaming Ports	Maximum number of live streaming ports supported by the system.
Max Streaming Sessions	Maximum number of video-on-demand and live streaming supported by the system. Base: 250. Note: After purchasing and activating the license, the streaming sessions capacity will be increased from 250 to 500.
Media Encryption	Whether the AES encryption function of the system is activated. This is a charged function. You can use it only after purchasing and activating the license.
720p Live Streaming & Archiving	Whether the 720p Live Streaming & Archiving capability is activated. This is activated by default
Streaming without recording (no archive)	Whether the streaming without recording function of the system is activated. This function is activated by default, the system performs live streaming without recording and no archives are generated.
Basic Timecode Watermark	Whether the basic timecode watermark capability for transcoded MP4 on-demand files is activated. This is activated by default, MP4 on-demand archives can be output with basic timecode watermarking.

To change the system’s initial IP settings from the Admin Portal:

- 1 Go to **Configuration > IP Settings** and configure the network settings.
- 2 Select **Using the following IP** if you want to set a static IP to RealPresence Capture Server. Enter the IP address and subnet mask.
- 3 Specify the general system network settings:
 - **IP Address:** the IP address of the system.
 - **Subnet Mask:** the subnet mask of the system.
 - **Default IPv4 Gateway:** the address of the interface to use for accessing the IPv4 gateway.
 - **Preferred DNS Server:** the preferred DNS server address for the system to resolve domain names.
 - **Alternate DNS Server:** the alternate DNS server address for the system to resolve domain names.

Use the default values for other fields.

Set up the Gatekeeper

If a gatekeeper is configured on your network, you can register RealPresence Capture Server to the gatekeeper to simplify calling.

To register the system to a gatekeeper to make H.323 calls:

- 1 In the web browser's address line, enter the system's IP address in this format: **http://<system IP address>/admin**.
- 2 Go to **Configuration > Signaling Settings > H.323**.
- 3 Select **Register To Gatekeeper**.
- 4 Configure the following settings. After you finish the configuration, click **OK**.

Parameter	Description
Primary Gatekeeper	Whether the system is registered to the primary gatekeeper.
Gatekeeper Address	The IP address for the gatekeeper.
Gatekeeper Port	The port number, the default value is 1719.
Register User Information for Gatekeeper	Whether to register the system to a Polycom DMA server for H.235.0 authentication. When H.235.0 authentication is enabled, the gatekeeper ensures that only trusted endpoints are allowed to access the gatekeeper.
Gatekeeper User	The user name for registration with the Polycom DMA server.
Gatekeeper Password	The password for registration with the Polycom DMA server.
Alternate Gatekeeper	Whether the system is registered to the alternate gatekeeper. Note: You can use it only when the primary gatekeeper is unavailable.
System Prefix / E.164	The E.164 number for the system.
System H.323 Alias	The H.323 alias for the system.

Record and View Meetings

The following topics demonstrate how to record your first video call, view the live streaming, play VoD and live streaming, and how to play back media archives in a compatible web browser.

- [User Interfaces](#)
- [Start a Recording](#)
- [Play Back Media Archives](#)
- [View Live Streams](#)

User Interfaces

RealPresence Capture Server provides four interfaces that are used for specific purposes:

- **Web-based Admin Portal:** Accessed via a compatible web browser, the Admin Portal is used to configure the system, set up recording parameters, monitor system use and health, dial out to endpoints to record meetings, disconnect calls in progress, create different transcoded versions of archived calls, download media files, and give admin users a quick way to access and play archives and live streams.
- **Web-based Viewer Portal:** Accessed via compatible device/web browser (PC/MAC, iOS and Android), the Viewer Portal UI is used to find, navigate, search, play archives and live streams.
- **TV user interface (also called the “TVUI”):** Accessed via standards-based video conferencing endpoints, this interface can be used to record meetings.
- **Console:** Accessed via vSphere client console or SSH, console is used to view/change IP settings and reboot the system.

For more information, see the User Guide.

Start a Recording

You can start recording in RealPresence Capture Server using one of the following methods:

- Calling from RealPresence Capture Server to an interoperable endpoint (only for administrators)
- Calling RealPresence Capture Server from an interoperable endpoint.
- Starting a recording from Polycom RMX system via recording link.

To start a recording from the Admin Portal (only for administrators):

- 1 In the web browser's address line, enter the system's IP address in this format: **http://<system IP address>/admin**
- 2 Enter the user name and password to log in to the system.

- 3 Go to **Home**. In the **Signaling Connection** area, click **Dial out to record**.
- 4 Configure the following settings:

Parameter	Description
Signal	Set the H.323 or SIP network type for the system to place a call. Your choice depends on the call type used by the peer device.
Address Type	Specify the address type used to call.
Address	<p>Specify the calling address.</p> <p>The system supports entering the calling address with an extended service number in the address box.</p> <p>If you call a H.323 system, you can dial into the far end by entering the numbers in the following formats:</p> <ul style="list-style-type: none"> • [far end E.164 prefix] - Use when every system has registered to a gatekeeper. For example, if a far end system E.164 prefix is 9988, select address type as E.164, and dial 9988. • [far end H.323 ID]- Use when every system has registered to a gatekeeper. For example, if a far end system H.323 ID is CS9988, select address type as H.323 ID, and dial CS9988. • [far end IP Address]- Use when a system has not been registered to a gatekeeper. For example, if a far end system IP address is 172.22.33.44, select address type as IP, and dial 172.22.33.44.
VRR Name	Click Select to select a virtual recording room (VRR). You can use the built-in default VRR, or one you have created.

- 5 Click **OK**.



Dial out to record is also available under **Call** menu from Admin Portal. The recording starts immediately if **Start Recording Immediately** is enabled in the selected recording template.

To start recording by dialing RealPresence Capture Server from an interoperable endpoint:

- » Enter the E.164 prefix or H.323 ID of RealPresence Capture Server on the user interface of an interoperable endpoint, for example, from remote control of HDX or Group Series.

If your system or endpoint is not registered to the gatekeeper or to a SIP server, call the system IP address instead.



You can also dial in to a VRR directly to start recording by dialing:
`[RealPresence Capture Server H.323 E.164 number]##[VRR number]`
 For example, if the RealPresence Capture Server E.164 ID is 925, and the VRR number is 4096, dial `925##4096`.

Record from RMX via Recording Link

If you configure the Recording Link function on the Polycom RMX series conference platform and integrate the platform with the RealPresence Capture Server, the RealPresence Capture Server can be called automatically for recording when a multi-point conference is hosted through MCU.

For more information about configuring the Recording Link function on the RMX, refer to the User Guide provided with the RMX system.

Play Back Media Archives

You can play back recorded media archives stored in RealPresence Capture Server using one of the following methods:

- Play back from RealPresence Capture Server system's Viewer Portal.
- Play back from the RealPresence Capture Server system's Admin Portal.
- Download recorded files and play back using compatible media players.


For more information, see the User Guide.



To view archives and live streams, your device must turn off the pop-up blocker. For example:

- For iPad: From **Settings > Safari**, make sure the option **Block Pop-ups** is **OFF**.
- For Android devices: From **Browser > Settings > Advanced**, make sure the option **Block Pop-ups** is **OFF**.
- For PC Internet Explorer (version 9.0 or above): From **Tools > Internet Options > Privacy**, make sure the option **Turn on Pop-up Blocker** is NOT selected.

To play back recorded media archives from the Capture Server System's Viewer Portal:

- 1 On a device with compatible web browser, open a supported web browser.
- 2 In the browser address line, enter the system's portal address, for example, **http://System IP**.
- 3 Click **Archives** from the menu on the left.
- 4 Click  of the archive file that you want to play.

View Live Streams

You can view live streams from both RealPresence Capture Server Viewer Portal and Admin Portal:

- View live streams from the RealPresence Capture Server system's Viewer Portal.
- View live streams from the portal of external media servers, if configured.

To view your live streaming from the Viewer Portal of the Capture Server System:

- 1 On a device with compatible web browser, open a supported web browser.
- 2 In the browser address line, enter the system's portal address, for example, **http://System IP**.
- 3 Click **Live Streaming** from the menu on the left.
- 4 Click the **Play** button of the live streaming that you want to play.

For more information of viewing live streams from Admin Portal, see the User Guide.