



Getting Started Guide

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# **Polycom® RealPresence® Capture Server - Appliance Edition Getting Started Guide**



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# Regulatory Notices

## Russia Regulatory Information

Система	Номер регистрации	Дата истечения срока
Capture Server	Д-СПД-6758	June 02, 2017

### A 급 기기 ( 업무용 방송통신기자재 )

이 기기는 업무용 (A 급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.

### Safety Considerations and Storage

- RealPresence Capture Server has a 7 year period of life.
- RealPresence Capture Server has a 7 year period of storage.

Follow existing safety instructions and observe all safeguards as directed

Environment	
Operating temperature	5° to 40°C (40° to 100°F).
Non-operating temperature	-40° to 5° (-40° to 40°F), 40°C to 60°C (100° to 140° F).
Operating Relative humidity	8% to 90% non-condensing.
Non-operating Relative humidity	5% to 8%, 90% to 95% non-condensing

# About This Guide

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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

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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](#)
- [Install RealPresence Capture Server](#)

## 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 1080p 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 enables you to access video call archives via any standard-based endpoint.
- It provides REST API support for third-party integrations.
- It is best when integrated with the Polycom RealPresence Media Manager version 6.6 for enhanced content management, auto-publishing, and streaming scalability.

## Before You Begin

Before you begin installing this product, make sure you follow these rules to ensure general safety:

- Keep the area around the RealPresence Capture Server unit clean, free of clutter, and well ventilated.
- Choose a suitable location for the equipment rack that will hold the unit and ensure that it is near a grounded power outlet.
- Use a regulating UPS (uninterruptible power supply) to protect the RealPresence Capture Server unit from power surges and voltage spikes, and to keep it operating in case of a power failure.

## Unpack the Package

When you unpack the RealPresence Capture Server package, ensure check to be sure that the following items are included:

- One RealPresence Capture Server appliance (weighs about 50 lbs)
- Rail-mount kit for standard 19-inch equipment rack
- One power cable for your regional power
- Two RJ-45 network cables
- Documentation DVD, which contains the links to the latest RealPresence Capture Server documentation on the [Polycom Support](#) web site.
- A piece of paper containing the license information.

Take all items out of the package and check to ensure they are in proper condition.



If you find damage, file a claim with the delivery carrier. Polycom is not responsible for damage sustained during shipment of this product.

## Install RealPresence Capture Server

After you unpack and examine the product package and remove all of the components from their containers, you can start to install the product.

### To install RealPresence Capture Server:

- 1 Place the RealPresence Capture Server unit on a stable flat surface.
- 2 Peel off the protective film from the top and bottom of the appliance.
- 3 If appropriate, install the rack-mount rail kit following the instructions provided.
- 4 Place the appliance in a properly ventilated equipment rack (shelf or rails) or similar environment.
- 5 Insert the power cable connector into the rear of the chassis and connect it to an appropriately rated socket outlet.
- 6 Connect a network cable to LAN 1 on the back of the unit.
- 7 Power on the system.

## Hardware Specification

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

### Hardware Requirements

Component	Description
CPU	Intel® Dual (single for China 6/3 port license) E5-2620 @ 2.0 GHz 12 cores Note: The hyper-thread core is 24.
RAM	32GB (16 GB for China 6/3 port license) DDR3 ECC Registered memory
System storage	2.5 inch 120 GB SSD used for system image and database.
Local media storage	Supports up to 4 TB storage: 4 * 3.5 inch TB removable hard disk with RAID 10.
	Supports up to 2 TB storage: 4 * 3.5 inch TB removable hard disk with RAID 1. (For 6/3 port license which is available in Chinese market)

### Web Browser Requirements

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



**Viewer Portal Web Browser Requirement**

Operating System	Browser Name	Version
PC (Windows 7, and Windows 8)	Internet Explorer	9, 10, 11
	Firefox	30, 31
	Chrome	35, 36
MAC OS-X (Intel-based Leopard, Snow, and Lion)	Safari	7.0.5
	Firefox	30, 31
	Chrome	35, 36
iOS (iPad 2/3/4/mini, iPhone 5/5S)	Safari	7.1.2 7.1.1
Andriod 4.1.2/4.2/4.3, phone and tablet	Android browser	4.1.2, 4.3

**To save your media files on a network file system:**

1 Click **Configuration > Media Storage Settings**.

2 Choose from the listed Media Storage policies.

If select policy other than “**Local Storage First**”, you need to configure following settings for network file system.

3 Configure the following settings for the network file system.

**Media Storage Setting**

Parameter	Description
NFS Server Name	Enter a name for the NFS server.
NFS Server Address	Enter an address of the NFS server.
NFS Storage Folder	Specify the folder path to the NFS storage. Note: Make sure the NFS server is set up beforehand.

Test	Test whether the NFS server is reachable.
Synchronize archives when storage setting changed	When this option is checked, the archives on the storage will be synced up with the archive record in the system database, and could be viewed from portal (viewer or admin). The sync-up action takes effect after the system restarts.
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 specified receivers.
Send warning e-mail to Admin when remaining LOCAL free space reaches: (GB)	Set a local 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 specified receivers.

- 4 Click **OK**. The server restarts to apply your changes.

## 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

You must activate the license shipped with your order with the product serial number (you can find this by choosing **Admin > Product Activation**) identified within RealPresence Capture Server v1.7.

#### To obtain the product activation key:

- 1 Obtain the serial number from rear panel of the Capture Server system. Write it down for later use.
- 2 Enter the following web site address in the address bar of the web browser: [support.polycom.com](http://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**.

## Configure IP Settings through Console

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

- 1 Connect a VGA monitor to VGA interface of the RealPresence Capture Server system, and connect the USB keyboard to the USB interface of the Capture Server system.
- 2 Open the console of your RealPresence Capture Server.

```
CaptureServer 1.7.0.0 on an x86_64
CaptureServer login: _
```

- 3 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(192.168.1.254)      eth1()
Use a supported browser to configure/manager this Polycom RealPresence Capture Server:
http://192.168.1.254
Use a supported telnet client to configure/manager this Polycom RealPresence Capture Server:
192.168.1.254

```

- 4 The IP address displayed on console is shown in the above illustration, for example: **http://192.168.1.254**
- 5 Assign the system a static IP from the RealPresence Capture Server's console.
- 6 Type **Alt+F2** keys to go to the login screen.
- 7 Enter the user name and password (both are **polycom** by default).
- 8 After logging into the system, you may enter ? or help after the prompt # to show the command prompt information.
- 9 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>	Set the IP address for LAN1. For example, set lan1 ip static 192.168.1.254 netmask 255.255.255.0 gw 192.168.1.1

**11** After you set the IP, the Capture Server system will ask if you want the changes, click **Y** to reboot.

### To activate the system

- 1 Enter the following website address in the address bar of the web browser: <http://<system IP address>/admin>.
- 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, <b>Active</b> 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.

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
Gatekeeper type	Choose between <b>Polycom</b> and <b>Cisco VCS</b> .
Primary Gatekeeper	Indicates 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.

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Register User Information for Gatekeeper	Specify whether to register the system to a Polycom Gatekeeper 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	Specify the user name for registration with the Polycom Gatekeeper server.
Gatekeeper Password	Specify the password for registration with the Polycom Gatekeeper 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.
Remote Display Name	Specify the name to be displayed to the far end. Note: If you set the remote display name with dual-bytes characters like Chinese, you will not see the characters on the far end endpoints in a H.323 call between endpoints and the Capture Server system.

# Record and View Meetings

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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 VGA interface 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:

- Call from RealPresence Capture Server to an interoperable endpoint (only for administrators)
- Call from RealPresence Capture Server to an interoperable endpoint from User Portal
- Call RealPresence Capture Server from an interoperable endpoint.
- Start a recording from Polycom RMX system via recording link.
- Schedule a meeting on RealPresence Media Manager and connect the RealPresence Capture Server to an endpoint.

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

- 1 Access Capture Server admin portal by its IP address or host domain name from a compatible browser.
- 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"> <li>• [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.</li> <li>• [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.</li> <li>• [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.</li> </ul>
VRR Name	Click <b>Select</b> to select a virtual recording room (VRR). You can use the built-in default VRR, or one you have created.
Max Call Rate (Kbps)	Specifies the maximum call rate for the dial-out call.

- 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.
- Unlike administrators, normal users can only view and manage calls started by themselves.

### Dial out from Capture Server through User Portal:

- 1 Access Capture Server User Portal by its IP address or host domain name from a compatible browser.
- 2 Enter the non-admin user name and password to log in to the system.
- 3 Click **Call > Dial out to record**.
- 4 Configure the relevant settings.
- 5 Click **OK**.



## To start point-to-point recording from Admin Portal

- 1 In the 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 **2 Sites Recording**.
- 4 Enter addresses for two invited participants.
- 5 Click **OK**.

Note: For version 1.7 it is only available in H.323 point-to-point calls.

## Dial in from Endpoint

### 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 one of the following:

For H.323 calls

- [RealPresence Capture Server IP]##[VRR number]  
For example, if the RealPresence Capture Server IP is 11.12.13.14, and the VRR number is 4096, dial *11.12.13.14##4096*.
- [RealPresence Capture Server H.323 ID][VRR number]  
For example, if the RealPresence Capture Server H.323 ID is *css123*, and the VRR number is 4096, dial *css1234096*.

For SIP calls

- [VRR number]@[RealPresence Capture Server IP]  
For example, if the RealPresence Capture Server IP is 11.12.13.14, and the VRR number is 4096, dial *4096@11.12.13.14##*.
- [SIP peer prefix][VRR number]  
If the system has been registered to a SIP server, the SIP server should configure CaptureServer as a SIP peer. For example, if the SIP peer prefix of the Polycom RealPresence Capture Server system is 8888 and the VRR number is 4096, the dial string should be *88884096*.

## 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 archives through the User Portal:

- 1 Log in to the User Portal.
- 2 Go to **Archives**.
- 3 Select the archive you want to play back and click .
- 4 A new window opens to play the video.

## 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 User 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 **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.