



# **Poly Studio R30**

## Parameter Reference Guide

r30-ref-current

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# Before You Begin

This guide lists the available configuration parameters for provisioning your Poly Studio R30 USB video bar.

## Audience, Purpose, and Required Skills

This guide is written for a technical audience, especially for the administrators operating Poly Lens and FTPS/HTTPS provisioning.

## Related Poly and Partner Resources

See the following sites for information related to this product.

- [Poly Support](#) is the entry point to online product, service, and solution support information. Find product-specific information such as Knowledge Base articles, Support Videos, Guide & Manuals, and Software Releases on the Products page, download software for desktop and mobile platforms from Downloads & Apps, and access additional services.
- The [Poly Documentation Library](#) provides support documentation for active products, services, and solutions. The documentation displays in responsive HTML5 format so that you can easily access and view installation, configuration, or administration content from any online device.
- The [Poly Community](#) provides access to the latest developer and support information. Create an account to access Poly support personnel and participate in developer and support forums. You can find the latest information on hardware, software, and partner solutions topics, share ideas, and solve problems with your colleagues.
- The [Poly Partner Network](#) is a program where resellers, distributors, solutions providers, and unified communications providers deliver high-value business solutions that meet critical customer needs, making it easy for you to communicate face-to-face using the applications and devices you use every day.
- [Poly Services](#) help your business succeed and get the most out of your investment through the benefits of collaboration. Enhance collaboration for your employees by accessing Poly service solutions, including Support Services, Managed Services, Professional Services, and Training Services.
- With [Poly+](#) you get exclusive premium features, insights and management tools necessary to keep employee devices up, running, and ready for action.
- [Poly Lens](#) enables better collaboration for every user in every workspace. It is designed to spotlight the health and efficiency of your spaces and devices by providing actionable insights and simplifying device management.

## Privacy Policy

Poly products and services process customer data in a manner consistent with the [Poly Privacy Policy](#). Please direct comments or questions to [privacy@poly.com](mailto:privacy@poly.com).

# Getting Started

You can configure, manage, and monitor your Poly Studio R30 system using parameters in Poly Lens or your own FTPS/HTTPS server.

## Understanding Parameter Lists

The following information describes the general convention for parameter list details. Parameter details vary depending on the complexity of the parameter.

### **parameter . name**

A parameter's description, applicability, or dependencies.

The parameter's permitted values, default value, and the value's unit of measure (such as seconds, Hz, or dB).

A note that highlights critical information you need to know.

**Note:** Some parameters use check boxes as value options on the provisioning server's web interface, where selected check boxes indicate true and cleared check boxes indicate false.

## Enable FTPS or HTTPS Provisioning

Poly Studio R30 supports FTPS or HTTPS provisioning.

Poly recommends that you use Poly provisioning services for better performance, but you can use simple FTPS or HTTPS provisioning as well.

**Note:** Poly Studio R30 only supports FTPS servers that don't reuse the TLS/SSL session for data connection. Make sure that your server settings are correct if the connection to your FTPS server fails.

### Task

- 1 Download both provisioning templates from the [Poly Support](#).
- 2 Rename the files to replace SN with your serial number.  
The correct file names are `<Serial_Number>.cfg` and `<Serial_Number>-provisioning.cfg`.
- 3 In `<Serial_Number>.cfg`, edit the `CONFIG_FILES` line as `CONFIG_FILES="<Serial_Number>-provisioning.cfg"` and save.
- 4 Edit the parameters in `<Serial_Number>-provisioning.cfg` as you need and save.  
The order of the parameters in the provisioning file matches the order that the parameters get deployed in. When conflicted, the earlier-provisioned parameter takes priority except for specified cases.  
**Important:** Make sure you follow the spelling of the value options. All the values are case-sensitive.
- 5 Put both files in the root folder of the FTPS or HTTPS server.

# General Settings

This section describes available configuration parameters for general settings (for example, system name and bluetooth). Included are permitted values and, if applicable, guidance for configuring related parameters.

## **device.local.country**

Specifies the country where the system is located.

Not set (default)

Global

Afghanistan

Albania

Algeria

American Samoa

Andorra

Angola

Anguilla

Antarctica

Antigua

Argentina

Armenia

Aruba

Ascension Islands

Australia

Australian Ext. Territories

Austria

Azerbaijan

Bahamas

Bahrain

Bangladesh

Barbados

Barbuda

Belarus

Belgium

Belize

Benin Republic

Bermuda

Bhutan

Bolivia

Bosnia and Herzegovina

Botswana  
Brazil  
British Virgin Islands  
British Indian Ocean Territory  
Brunei  
Bulgaria  
Burkina Faso  
Burma (Myanmar)  
Burundi  
Cambodia  
Cameroon United Republic  
Canada  
Cape Verde Island  
Cayman Islands  
Central African Republic  
Chad Republic  
Chile  
China  
Christmas Island  
Cocos Islands  
Colombia  
Comoros  
Congo  
Congo Democratic Republic  
Cook Islands  
Costa Rica  
Croatia  
Cuba  
Curacao  
Cyprus  
Czech Republic  
Denmark  
Diego Garcia  
Djibouti  
Dominica  
Dominican Republic  
Easter Island  
East Timor

Ecuador  
Egypt  
El Salvador  
Equatorial Guinea  
Eritrea  
Estonia  
Ethiopia  
Faeroe Islands  
Falkland Islands  
Fiji Islands  
Finland  
France  
French Antilles  
French Guiana  
French Polynesia  
French Southern and Antarctic Lands  
Gabon  
Gambia  
Georgia  
Germany  
Ghana  
Gibraltar  
Greece  
Greenland  
Grenada  
Guadeloupe  
Guam  
Guantanamo Bay  
Guatemala  
Guinea  
Guernsey  
Guinea-Bissau  
Guyana  
Haiti  
Honduras  
Hong Kong  
Hungary  
Iceland

India  
Indonesia  
Inmarsat (Atlantic Ocean West)  
Inmarsat (Atlantic Ocean East)  
Inmarsat (Indian Ocean)  
Inmarsat (Pacific Ocean)  
Inmarsat (SNAC)  
Iran  
Iraq  
Ireland  
Israel  
Italy  
Ivory Coast  
Jamaica  
Japan  
Jersey  
Jordan  
Kazakhstan  
Kenya  
Kiribati  
Korea North  
Korea South  
Kosovo  
Kuwait  
Kyrgyzstan  
Laos  
Latvia  
Lebanon  
Lesotho  
Liberia  
Libya  
Liechtenstein  
Lithuania  
Luxembourg  
Macao  
Macedonia  
Madagascar  
Malawi



Malaysia  
Maldives  
Mali  
Malta  
Man, Isle of  
Mariana Islands  
Marshall Islands  
Martinique  
Mauritania  
Mauritius  
Mayotte Island  
Mexico  
Micronesia  
Midway Island  
Moldova  
Monaco  
Mongolia  
Montenegro  
Montserrat  
Morocco  
Mozambique  
Myanmar (Burma)  
Namibia  
Nauru  
Nepal  
Netherlands  
Netherlands Antilles  
Nevis  
New Caledonia  
New Zealand  
Nicaragua  
Niger  
Nigeria  
Niue  
Norfolk Island  
Norway  
Oman  
Pakistan

Palau  
Palestine  
Panama  
Papua New Guinea  
Paraguay  
Peru  
Philippines  
Pitcairn  
Poland  
Portugal  
Puerto Rico  
Qatar  
Reunion Island  
Romania  
Russia  
Rwanda  
St Helena  
St Kitts  
St Lucia  
St Pierre and Miquelon  
St Vincent  
San Marino  
Sao Tome and Principe  
Saudi Arabia  
Senegal  
Serbia  
Seychelles  
Sierra Leone  
Singapore  
Slovakia  
Slovenia  
Solomon Islands  
Somalia Republic  
South Africa  
Spain  
Sri Lanka  
Sudan  
Suriname

Swaziland  
Sweden  
Switzerland  
Syria  
Taiwan  
Tajikistan  
Tanzania  
Thailand  
Togo  
Tonga  
Trinidad and Tobago  
Tunisia  
Turkey  
Turkmenistan  
Turks and Caicos  
Tuvalu  
Uganda  
Ukraine  
United Arab Emirates  
United Kingdom  
United States  
Uruguay  
US Minor Outlying Islands  
US Virgin Islands  
Uzbekistan  
Vanuatu  
Vatican City  
Venezuela  
Vietnam  
Wake Island  
Wallis And Futuna Islands  
Western Samoa  
Yemen  
Zambia  
Zanzibar  
Zimbabwe

**device.local.deviceName**

Specifies the device name. Bluetooth uses the same identifier.

String (0 to 40)

Poly Studio R30 (default)

**bluetooth.enable**

Specifies whether to enable Bluetooth functions.

true (default)

false

**bluetooth.ble.enable**

Specifies whether to enable the Bluetooth remote control.

true (default)

false

**bluetooth.autoConnection**

Specifies whether to automatically connect to the paired Bluetooth devices.

true (default)

false

**device.local.ntpServer.address.1**

Specifies the time server IP address. It applies when the mode is set to Manual.

String (0 to 255)

**device.local.ntpServer.mode**

Specifies the time server mode.

auto (default)

manual

**device.syslog.enable**

Specifies whether to send log information to the log server.

true

false (default)

**device.syslog.serverName**

Specifies the URL where to upload the log information.

String (0 to 255)

**device.syslog.interval**

Specifies (in seconds) how often the system sends logs to the log server.

Integer (1 to 4000000)

18000 (default)

If this parameter isn't set, the device doesn't upload the system logs.

# Network Settings

This section describes available configuration parameters for network settings. Included are permitted values and, if applicable, guidance for configuring related parameters.

**Note:** `device.wifi.paramOn` must be included and set to true to allow setting any other `device.wifi.*` parameters

## **device.wifi.paramOn**

Enables all Wi-Fi network parameters.

true

false (default)

## **device.wifi.autoConnect**

Specifies whether to connect to the saved Wi-Fi network automatically when it's available.

true (default)

false

## **device.wifi.dhcp.enable**

Specifies whether to use DHCP server to obtain the IP settings automatically for your system Wi-Fi network.

If you set "true", make sure you have a DHCP server in your environment.

true

false (default)

## **device.wifi.dns.server.1**

If the system doesn't automatically obtain a DNS server address, enter one here.

If `device.wifi.dhcp.enable="true"`, this doesn't apply.

String (0 to 40)

## **device.wifi.dns.server.2**

If the system doesn't automatically obtain a DNS server address, enter one here.

If `device.wifi.dhcp.enable="true"`, this doesn't apply.

String (0 to 40)

## **device.wifi.dot1x.anonymousIdentity**

Specify an anonymous identity used for 802.1x authentication.

String (0 to 40)

## **device.wifi.dot1x.identity**

Specifies the system's identity used for 802.1x authentication.

String (0 to 40)

**device.wifi.dot1x.password**

Specifies the system's password used for authentication.

String (0 to 40)

**device.wifi.dot1xEAP.EAP.method**

Specifies the extensible authentication protocol (EAP) for WPA-Enterprise (802.1xEAP).

Set this if `device.wifi.securityType="802_1xEAP"`.

PEAP (default)

TLS

TTLS

PWD

**device.wifi.dot1xEAP.phase2Auth**

Specifies the Phase 2 authentication method.

Set this if `device.wifi.securityType="802_1xEAP"`.

NONE (default)

MSCHAPV2

GTC

**device.wifi.ipAddress**

Specifies the system IPv4 address.

If `device.wifi.dhcp.enable="true"`, this doesn't apply.

String (0 to 40)

**device.wifi.ipGateway**

Specifies the IP gateway for the Wi-Fi network.

If `device.wifi.dhcp.enable="true"`, this doesn't apply.

String (0 to 40)

**device.wifi.securityType**

Specifies the Wi-Fi network encryption protocol.

Not set (default)

None

WEP

PSK

EAP

**device.wifi.ssid**

Specifies the name of the Wi-Fi network you're connecting systems to.

String (0 to 40)

**device.wifi.subnetMask**

Specifies the subnet mask address for the Wi-Fi network.

If `device.wifi.dhcp.enable="true"`, this doesn't apply.

String (0 to 40)

**device.wifi.TLS.CAcert**

Specifies whether to authenticate the certificate authority (CA) of the Wi-Fi network.

true

false (default)

**device.wifi.TLS.clientCert**

Specifies whether to authenticate users who are connecting to this Wi-Fi network.

true

false (default)



# Security Settings

This section describes available configuration parameters for security settings. Included are permitted values and, if applicable, guidance for configuring related parameters.

## **sec.auth.admin.password**

Specifies the password required to access the Admin Settings page in Poly Lens Desktop.

String (0 to 32)

Poly12#\$(default)

**Note:** If you provision a blank password to your device, you can only change the password via provisioning. You can't change the password from the Poly Lens Desktop application unless you reset the device.

## **sec.auth.admin.password.enable**

Specifies whether to require a password to access the Admin Settings page in Poly Lens Desktop.

true

false (default)

## **sec.auth.simplePassword**

Specifies whether to allow a simple password for login.

true

false (default)

## **sec.server.cert.CAvalidate**

Determines whether your system requires a remote server to present a valid certificate when connecting to it for services, such as provisioning.

true

false (default)

# Audio Settings

This section describes available configuration parameters for audio settings. Included are permitted values and, if applicable, guidance for configuring related parameters.

## **voice.acousticBeam.enable**

Specifies whether to enable Polycom Acoustic Fence with Beam Shaping and how big is the coverage.

Off (default)

Wide

Narrow

Medium

Camera-View

## **voice.eq.bass**

Adjusts audio equalizer bass level of the speaker.

Integer (-6 to 6)

0 (default)

## **voice.eq.treble**

Adjusts audio equalizer treble output from the speaker.

Integer (-6 to 6)

0 (default)

## **voice.noiseBlock.enable**

Specifies whether to enable NoiseBlockAI to prevent the noise from transmitting to the far end during video conferences.

true (default)

false

## **voice.noiseBlockAI.enable**

Specifies whether to prevent noise from the far end during video conferences.

true

false (default)

# Video Settings

This section describes available configuration parameters for video settings including camera settings. Included are permitted values and, if applicable, guidance for configuring related parameters.

**Note:** Selecting any one of `conversation_view`, `gallery_view`, and `lecture_mode`, will disable the other two modes.

## **conversation\_view**

Specifies whether to enable the Conversation Mode feature. When enabled, those settings override:  
`video.camera.trackingMode="FrameSpeaker", zoom_Level="4", and lecture_mode="false"`.

true

false (default)

## **gallery\_view**

Specifies whether to enable the People Framing feature.

This setting only applies when `video.camera.trackingMode="FrameGroup", zoom_Level="4", conversation_view="false", and lecture_mode="false"`.

true

false (default)

## **lecture\_mode**

Specifies whether to enable the Presenter Mode feature.

This setting only activate when the `video.camera.trackingMode="FrameSpeaker" and conversation_view="false"`.

true

false (default)

## **smooth\_transition**

Specifies whether to let the camera pan smoothly between speakers or groups.

true

false (default)

## **video.camera.antiFlicker**

Adjusts the power frequency to reduce flicker in the video.

50

60 (default)

## **video.camera.backlightComp**

Specifies whether to enable backlight compensation.

true

false (default)

**video.camera.groupViewSize**

Specifies the framing size of the camera.

Wide

Medium (default)

Tight

**video.camera.imageMirrorFlip**

Specifies whether to mirror or flip the video image. For inverted mounting, set the value to `MirrorAndFlip`.

`MirrorAndFlip`

Disabled (default)

**video.camera.osdEnable**

Specifies whether to enable the onscreen display (OSD) overlay for video debugging.

true

false (default)

**video.camera.trackingMode**

Specifies the tracking mode of the camera.

Off (default)

`FrameGroup`

`FrameSpeaker`

**video.camera.trackingSpeed**

Specifies the tracking speed of the camera.

Fast

Normal (default)

Slow

**zoom\_level**

Specifies the maximum zoom ratio when `video.camera.trackingMode` is not off.

2

3

4 (default)

The numbers stand for 2×, 3×, or 4× zoom-in level.

# Provisioning and Upgrading Settings

Use the following configuration parameters to provision and upgrade your system. Included are permitted values and, if applicable, guidance for configuring related parameters.

## **lens.connection.enable**

Enables Poly Lens to perform management tasks including configuration synchronization, people count reporting, and remote system reboot. Disable it if you don't want the device to connect with the Poly Lens cloud service.

true (default)

false

## **prov.heartbeat.interval**

Specifies (in seconds) how often the USB video bar sends the heartbeat message to the provisioning server. The default is 10 minutes.

Integer (1 to 65535)

600 (default)

## **prov.password**

Specifies the provisioning server's login password. This setting only applies when `prov.server.mode="manual"`.

String (0 to 255)

## **prov.polling.period**

Specifies, in seconds, how often the USB video bar requests the provisioning file. The default is 24 hours.

Integer ( $\geq 60$ )

86400 (default)

## **prov.server.mode**

Specifies the method of provisioning.

Manual

Auto: Gets the provisioning server URL from your DHCP option 66 or 150.

Disable (default)

## **prov.server.type**

Specifies the type of provisioning server. This setting only applies when `prov.server.mode="manual"`.

HTTPS: Uses your own HTTPS server (non-Poly Provisioning Service)

FTPS: Uses your own FTPS server (non-Poly Provisioning Service)

CLOUD (default): Uses a Poly Provisioning Service (Poly Lens).

## **prov.url**

Specifies the URL of the provisioning server. This setting only applies when `prov.server.mode="manual"`.

String (0 to 255)

**prov.username**

Specifies the provisioning server's login username. This setting only applies when `prov.server.mode="manual"`.

String (0 to 255)

**upgrade.auto.enable**

Specifies whether to upgrade the firmware via the provisioning server. If set to false, use Poly Lens Desktop to upgrade.

true

false (default)

# Support

## NEED MORE HELP?

[poly.com/support](https://poly.com/support)

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