



API GUIDE

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Polycom® EagleEye™ Director II



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Getting Started

The REST (Representational State Transfer) API feature, which provides a convenient, scalable, portable, and reliable API for interacting with Polycom EagleEye Director II, enables users to execute certain functions and retrieve information.

Audience, Purpose, and Required Skills

Before you begin working with the REST API, note the following:

- For admin access level REST API, you must call `Login Rest API` first, and get `sessionid`, if you send any other REST API, you must make sure `sessionid` is attached in cookie session of request. For user access level REST API, `sessionid` is not necessary.

Getting Help

For more information about installing, configuring, and administering Polycom products, see [Polycom Support](#).

Polycom and Partner Resources

To find all Polycom partner solutions, see [Strategic Partner Solutions](#).

The Polycom Community

The [Polycom Community](#) gives you access to the latest developer and support information. Participate in discussion forums to share ideas and solve problems with your colleagues. To register with the Polycom Community, simply create a Polycom online account. When logged in, you can access Polycom support personnel and participate in developer and support forums to find the latest information on hardware, software, and partner solutions topics.

REST API Commands

This section describes the API commands for Polycom EagleEye Director II 1.0.

Commands and Structure

You can use the following API commands.

API.Managment.GetSystemInfo

Description	This API provides an interface to get EEDII system information.
Protocol, Method, and Path	Protocol: HTTP/HTTPS Method: GET PATH: /api/sysInfo
Input / Output Format	JSON
Access Level	admin
Input	None
Output	<pre>{ "deviceModel": "EagleEye Director II", "deviceName": "<DEVICE_NAME>", "softwareVersion": "<SOFTWARE_VERSION>", "hardwareVersion": "<HARDWARE_VERSION>", "serialNumber": "<SERIAL_NUMBER>", "IPAddress": "<IP_ADDRESS>", "mode": "<primary / secondary / standalone / connectYourOwnDevice>", "modeBase": "<connectYourOwnDevice / groupSeries / UnKnown>", "systemStatus": "<BootingUp / Running / Sleep / FakeSleep / SwUpdating / InConf / ErrOccur>", "targetIP": "<IP_ADDRESS>", "trioIP": "<IP_ADDRESS>", "cookie": "success" }</pre>
Applicable Return Codes	-

API.Managment.Login

Description	This API provide an interface to log in EEDII Web UI.
Protocol, Method, and Path	Protocol: HTTP/HTTPS Method: Post PATH: /api/login
Input / Output Format	JSON
Access Level	admin
Input	<pre>{ "username": "admin", "password": "<PASSWORD>" }</pre>
Output	<pre>{ "loginResult": "success", "sessionid": "<GUID>" }</pre>
Applicable Return Codes	-

API.Managment.ChangePassword

Description	This API provides an interface to set new password.
Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: POST PATH: /api/changePassword
Input / Output Format	JSON
Access Level	admin
Input	<pre>{ "oldPassword": "<CURRENT_PASSWORD>" , "newPassword": "<NEW_PASSWORD>" }</pre>

Output	{ "changePasswordResult": "success", "cookie": "success" }
Applicable Return Codes	-

API.Managment.Logout

Description	This API provides an interface to log out.
Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: GET Path: /api/logout
Input / Output Format	JSON
Access Level	admin
Input	None
Output	{ "logoutResult": "success" }
Applicable Return Codes	-

API.Managment.GetDeviceName

Description	This API provides an interface to get device name.
Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: GET Path: /api/deviceName
Input / Output Format	JSON
Access Level	admin
Input	None

Output	<pre>{ "deviceName": "<DEVICE_NAME>", "cookie": "success" }</pre>
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Applicable Return Codes	-
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API.Managment.SetDeviceName

Description	This API provides an interface to set device name.
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Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: POST Path: /api/deviceName
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Input / Output Format	JSON
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Access Level	admin
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Input	<pre>{ "deviceName": "<DEVICE_NAME>" }</pre>
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Output	<pre>{ "setDeviceNameResult": "success", "cookie": "success" }</pre>
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Applicable Return Codes	-
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API.Managment.ResetSystem

Description	This API provides an interface to reset device.
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Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: POST Path: /api/resetSystem
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Input / Output Format	JSON
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Access Level	admin
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Input	None
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Output	<pre>{ "setResetSystemResult": "success", "cookie": "success" }</pre>
Applicable Return Codes	-

API.Management.RestartSystem

Description	This API provides an interface to restart device.
Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: POST Path: /api/restartSystem
Input / Output Format	JSON
Access Level	admin
Input	None
Output	<pre>{ "setRestartSystemResult": "success", "cookie": "success" }</pre>
Applicable Return Codes	-

API.Camera.GetTrackingInfo

Description	This API provides details about tracking information.
Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: GET Path: /api/tracking
Input / Output Format	JSON
Access Level	admin
Input	None

Output	<pre> { "trackingMode": "<Frame Speaker / Frame Group / OFF>", "trackingSpeed": "<Slow / Normal / Fast>", "frameSize": "<Wide / Medium / Tight>", "PIPLayOut": "<Right Top / Right Bottom / Left Top / Right Top / Split Window / OFF>", "cookie": "success" } </pre>
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Applicable Return Codes	-
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API.Camera.SetTrackingInfo

Description	This API provides an interface to set tracking information.
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Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: POST Path: /api/tracking
-----------------------------------	---

Input / Output Format	JSON
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Access Level	admin
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Input	<pre> { "trackingMode": "<Frame Group / Frame Speaker / OFF>", "trackingSpeed": "<Slow / Normal / Fast>", "frameSize": "<Wide / Medium / Tight>", "PIPLayOut": "<Right Top / Right Bottom / Left Top / Right Top / Split Window / OFF>" } </pre>
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Output	<pre> { "setTrackingResult": "success", "cookie": "success" } </pre>
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Applicable Return Codes	-
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API.Camera.GetCascadingInfo

Description	This API provides an interface to get cascading information
Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: GET Path: /api/cascadingDevices
Input / Output Format	JSON
Access Level	admin
Input	None
Output	<pre>{ "cascadingDeviceNumber": "<NUMBER_OF_AVAILABLE_DEVICES>", "cascadingDevices": "<DEVICES>", "rememberDevice": "<SERIAL_NUMBER>", "rememberIP": "<AP_ADDRESS>", "rememberDeviceStatus": "<Connect Ready / Connected / Connecting / Error>", "rememberDeviceName": "<DEVICE_NAME>", "cookie": "success" }</pre>
Applicable Return Codes	-

API.Camera.CreateCascadingConnection

Description	This API provides an interface to create cascading connection
Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: POST Path: /api/cascadingCreateConnection
Input / Output Format	JSON
Access Level	admin
Input	<pre>{ "serialNumber": "<SERIAL_NUMBER>", }</pre>

Output	<pre>{ "createConnectionResult": "success", "cookie": "success" }</pre>
Applicable Return Codes	-

API.Camera.DisconnectCascadingConnection

Description	This API provides an interface to disconnect current cascading connection.
Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: GET Path: /api/cascadingDisconnect
Input / Output Format	JSON
Access Level	admin
Input	None
Output	<pre>{ "disconnectResult": success, "cookie": "success" }</pre>
Applicable Return Codes	-

API.Camera.DisconnectAndConnect

Description	This API provides an interface to disconnect cascading and then connect a new one.
Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: GET Path: /api/cascadingDisconnectAndConnect
Input / Output Format	JSON
Access Level	admin
Input	None

Output	<pre>{ "disconnectAndConnectResult": "success", "cookie": "success" }</pre>
Applicable Return Codes	-

API.Camera.GetCameraSettings

Description	This API provides details about camera settings.
Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: GET Path: /api/cameras
Input / Output Format	JSON
Access Level	admin
Input	None
Output	<pre>{ "backlight": "<ON / OFF>", "whiteBalance": "<Automatic / Manual / 3200K / 3680K / 4160K / 5120K / 5600K>", "brightness": "<-10 / -9 / -8 / -7 / -6 / -5 / -4 / -3 / -2 / -1 / 0 / 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10>", "colorSaturation": "<-5 / -4 / -3 / -2 / -1 / 0 / 1 / 2 / 3 / 4 / 5>", "cookie": "success" }</pre>
Applicable Return Codes	-

API.Camera.SetCameraSettings

Description	This API provides an interface to set camera settings.
Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: POST Path: /api/cameras

Input / Output Format	JSON
Access Level	admin
Input	<pre>{ "backlight": "<ON / OFF>", "whiteBalance": "<Automatic / Manual / 3200K / 3680K / 4160K / 4640K / 5120K / 5600K>", "brightness": "<-10 / -9 / -8 / -7 / -6 / -5 / -4 / -3 / -2 / -1 / 0 / 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10>", "colorSaturation": "<-5 / -4 / -3 / -2 / -1 / 0 / 1 / 2 / 3 / 4 / 5>" }</pre>
Output	<pre>{ "setCameraSettingsResult": "success", "cookie": "success" }</pre>
Applicable Return Codes	-

API.Camera.ManualWhiteBalanceTrigger

Description	This API provides an interface to trigger manual white balance.
Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: GET Path: /api/whiteBalanceManualTrigger
Input / Output Format	JSON
Access Level	admin
Input	None
Output	<pre>{ "setWhiteBalanceManualTriggerResult": "success", "cookie": "success" }</pre>
Applicable Return Codes	-

API.Managment.CheckSystemVersion

Description	This API provides an interface to compare current EEDII software version with upgrade software version, and then get a result whether upgrade is enabled.
Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: POST Path: /api/checkVersion
Input / Output Format	JSON
Access Level	admin
Input	<pre>{ "fileName": "<SOFTWARE_PACKAGE_NAME> ", }</pre>
Output	<pre>{ "checkVersionResult": "success", "cookie": "success" }</pre>
Applicable Return Codes	-

API.Managment.GetTransferSize

Description	This API provides an interface to get how many bytes had been transferred.
Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: GET Path: /api/transferSize
Input / Output Format	JSON
Access Level	admin
Input	None
Output	<pre>{ "transferSize": "<TRANSFER_SIZE> ", "cookie": "success" }</pre>

Applicable Return Codes	-
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API.Managment.Upload

Description	This API provides an interface to upload file.
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Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: GET Path: /api/upload
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Input / Output Format	JSON
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Access Level	admin
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Input	None
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Output	{ "uploadResult": "success", "cookie": "success" }
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Applicable Return Codes	-
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API.Managment.UploadCancel

Description	This API provides an interface to cancel the upload.
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Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: GET Path: /api/uploadCancel
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Input / Output Format	JSON
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Access Level	admin
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Input	None
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Output	{ "uploadCancelResult": "success", "cookie": "success" }
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Applicable Return Codes	-
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API.Managment.Upgrade

Description	This API provides an interface to trigger upgrade.
Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: GET Path: /api/upgrade
Input / Output Format	JSON
Access Level	admin
Input	None
Output	<pre>{ "upgradeResult": "success", "cookie": "success" }</pre>
Applicable Return Codes	-

API.Managment.GetMicValue

Description	This API provides an interface to get mic value.
Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: GET Path: /api/audioDiagnostics
Input / Output Format	JSON
Access Level	admin
Input	None

Output	<pre> { "mic_0": "<MIC0_VALUE>", "mic_1": "<MIC1_VALUE>", "mic_2": "<MIC2_VALUE>", "mic_3": "<MIC3_VALUE>", "mic_4": "<MIC4_VALUE>", "mic_5": "<MIC5_VALUE>", "mic_6": "<MIC6_VALUE>", "mic_7": "<MIC7_VALUE>", "mic_8": "<MIC8_VALUE>", "mic_9": "<MIC9_VALUE>", "mic_left": "<MIC_LEFT_VALUE>", "mic_right": "<MIC_RIGHT_VALUE>", "cookie": "success" } </pre>
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Applicable Return Codes	-
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API.Managment.GetLogFiles

Description	This API provides an interface get log files.
Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: GET Path: /api/logs
Input / Output Format	application/octet-stream
Access Level	admin
Input	None
Output	<LOG_PACKAGE>
Applicable Return Codes	-

REST.Managment.GetSystemInfo

Description	This API provides an interface to get system information.
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Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: GET Path: /rest/sysInfo
Input / Output Format	JSON
Access Level	user
Input	None
Output	<pre>{ "deviceModel": "EagleEye Director II", "deviceName": "<DEVICE_NAME>", "softwareVersion": "<SOFTWARE_VERSION>", "hardwareVersion": "<HARDWARE_VERSION>", "serialNumber": "<SERIAL_NUMBER>", "IPAddress": "<IP_ADDRESS>", "mode": "<primary / secondary / standalone / connectYourOwnDevice>", "trackingMode": "<ON / OFF>", "baseMode": "<connectYourOwnDevice / groupSeries / UnKnown>", "targetIP": "<IP_ADDRESS>", "apiVersion": "<API_VERSION>" }</pre>
Applicable Return Codes	-

REST.Camera.GetCodecMode

Description	This API provides an interface to get codec mode.
Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: GET Path: /rest/codecMode
Input / Output Format	JSON
Access Level	user
Input	None

Output	{ "codecMode": "<Group Series / Connect Your Own Device / Automatic>" }
Applicable Return Codes	-

REST.Camera.SetCodecMode

Description	This API provides an interface to set codec mode.
Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: POST Path: /rest/codecMode
Input / Output Format	JSON
Access Level	user
Input	{ "codecMode": "<Group Series / Connect Your Own Device / Automatic>" }
Output	{ "setCodecModeResult": "success" }
Applicable Return Codes	-

REST.Camera.GetTrackingStatus

Description	This API provides an interface to get tracking status.
Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: GET Path: /rest/trackingOnOff
Input / Output Format	JSON
Access Level	user
Input	None

Output	{ "trackingOnOff": "<ON / OFF>" }
Applicable Return Codes	-

REST.Camera.SetTrackingOnOff

Description	This API provides an interface to set tracking "ON" or "OFF".
Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: POST Path: /rest/trackingOnOff
Input / Output Format	JSON
Access Level	user
Input	{ "trackingOnOff": "<ON / OFF>" }
Output	{ "setTrackingOnOffResult": "success" }
Applicable Return Codes	-

REST.Camera.CameraControl

Description	This API provides an interface to control camera.
Protocol, Method, and Path	Protocol: HTTP / HTTPS Method: POST Path: /rest/cameraControl
Input / Output Format	JSON
Access Level	user

Input	{ "action": "<up / down / left / right / in / out>", "status": "<start / stop>" }
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Output	{ "ok": "ock" }
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Applicable Return Codes	-
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