



REFERENCE GUIDE

Software 3.1.0 | April 2020 | 3725-86572-002A

Poly VideoOS REST API

Poly G7500, Studio X50, and Studio X30

GETTING HELP

For more information about installing, configuring, and administering Poly/Poly products or services, go to Poly Support.

Plantronics, Inc. (Poly – formerly Plantronics and Poly)
345 Encinal Street
Santa Cruz, California
95060

© 2020 Plantronics, Inc. All rights reserved. Poly, the propeller design, and the Poly logo are trademarks of Plantronics, Inc. All other trademarks are the property of their respective owners.

Contents

Before You Begin	3
Prerequisite Information	3
Audience and Purpose of This Guide	3
Related Poly and Partner Resources	3
REST API Commands	5
Commands and Structure	5
Diagnostics	129
Error Codes	129
Logging	129

Before You Begin

This guide describes the REST (Representational State Transfer) API feature, which provides a convenient, scalable, portable, and reliable API for interacting with Poly video systems, enabling users to execute certain functions and retrieve information.

The information this guide applies to all of the following Poly video systems:

- Poly G7500
- Poly Studio X50
- Poly Studio X30

Prerequisite Information

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

- The REST API feature is never disabled.
- Administrator credentials are required for access authentication before REST API commands can be sent. Poly recommends changing the default administrator password before using the REST API.
- All request and response bodies should be processed as JSON formatted data, unless specifically stated otherwise.
- The REST API cannot accept more than 10 MB of data.

Audience and Purpose of This Guide

The primary audience for this manual is systems integrators who intend to enable configuration and management of the system features through integrated systems. This manual is not intended for end users.

Related Poly and Partner Resources

See the following sites for information related to this release.

- The Poly Support Site is the entry point to online product, service, and solution support information including Licensing & Product Registration, Self-Service, Account Management, [Product-Related Legal Notices](#), and Documents & Software downloads.
- The [Poly Document 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](#) are industry leaders who natively integrate the Poly standards-based RealPresence Platform with their customers' current UC infrastructures, making it easy for you to communicate face-to-face with the applications and devices you use every day.
- The [Poly Collaboration Services](#) help your business succeed and get the most out of your investment through the benefits of collaboration.

REST API Commands

This section describes the configuration parameters and API commands for Poly VideoOS, version 3.1.

Commands and Structure

Audio

audio

Description	This API provides details about the systems audio information.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/audio
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	Body: { "muteLocked": false, "muted": true, "numOfMicsConnected": 1, "volume": 62 }
Applicable return codes	200 OK, 500 Server Error

audio

Description	This API performs an audio action on the system related to pressed DTMF characters.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/audio
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>Body:</p> <pre>{ "action": <string>, "dtmfChar": <string>, "speaker": <string> }</pre> <p>action – The action to complete on the system. Valid strings include "start", "playDTMF", "playTestTone", "stopPlayingTestTone", and "itpSegmentDetection".</p> <p>dtmfChar – Characters provided as the DTMF keypad input.</p> <p>speaker – The speaker selection that plays the tone. Valid strings include "SPEAKER_LEFT", "SPEAKER_RIGHT", and "SPEAKER_BOTH".</p>
Output	None
Applicable return codes	200 OK, 400 Bad Request, 500 Server Error

audio/acousticfence

Description	This API performs acoustic fence actions and broadcasts audio fence indicators.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/audio/acousticfence
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>Body:</p> <pre>{ "action": <string>, "dtmfChar": <string>, "speaker": <string> }</pre> <p>action – The action to complete on the system. Valid strings include "start", "playDTMF", "playTestTone", "stopPlayingTestTone", and "itpSegmentDetection".</p> <p>dtmfChar – Characters provided as the DTMF keypad input.</p> <p>speaker – The speaker selection to play the tone. Valid strings include "SPEAKER_LEFT", "SPEAKER_RIGHT", and "SPEAKER_BOTH".</p>
Output	None
Applicable return codes	200 OK, 400 Bad Request, 500 Server Error

audio/audiometers

Description	This API provides system audio meter information.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/audio/audiometers
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output

Body:

```
{
  "isValid": false,
  "levelBack": -20,
  "levelCenter": -20,
  "levelLeft": -20,
  "levelRight": -20,
  "meterIndex": -1,
  "nameInstance": -1,
  "portDirection": "IN",
  "portInstance": 0,
  "portName": "FAR_IN",
  "validChanMode": "left_and_right"
},
{
  "isValid": false,
  "levelBack": -20,
  "levelCenter": -20,
  "levelLeft": -20,
  "levelRight": -20,
  "meterIndex": -1,
  "nameInstance": -1,
  "portDirection": "IN",
  "portInstance": 1,
  "portName": "CAMERA_MIC",
  "validChanMode": "left_and_right"
},
{
  "isValid": false,
  "levelBack": -20,
  "levelCenter": -20,
  "levelLeft": -20,
  "levelRight": -20,
  "meterIndex": 1,
  "nameInstance": 1,
  "portDirection": "IN",
  "portInstance": 2,
  "portName": "IP_TABLE_MIC",
```

```
    "validChanMode": "left_and_right_and_center"
  },
  {
    "isValid": false,
    "levelBack": -20,
    "levelCenter": -20,
    "levelLeft": -20,
    "levelRight": -20,
    "meterIndex": 2,
    "nameInstance": 2,
    "portDirection": "IN",
    "portInstance": 3,
    "portName": "POLYCOM_MIC",
    "validChanMode": "left_and_right_and_center"
  },
  {
    "isValid": false,
    "levelBack": -20,
    "levelCenter": -20,
    "levelLeft": -20,
    "levelRight": -20,
    "meterIndex": 3,
    "nameInstance": 3,
    "portDirection": "IN",
    "portInstance": 4,
    "portName": "POLYCOM_MIC",
    "validChanMode": "left_and_right_and_center"
  },
  {
    "isValid": false,
    "levelBack": -20,
    "levelCenter": -20,
    "levelLeft": -20,
    "levelRight": -20,
    "meterIndex": 4,
    "nameInstance": 4,
    "portDirection": "IN",
    "portInstance": 5,
    "portName": "POLYCOM_MIC",
    "validChanMode": "left_and_right_and_center"
  },
  {
    "isValid": false,
    "levelBack": -20,
    "levelCenter": -20,
    "levelLeft": -20,
    "levelRight": -20,
    "meterIndex": -1,
    "nameInstance": -1,
    "portDirection": "IN",
    "portInstance": 6,
    "portName": "MIC_IP_ADAPTER",
    "validChanMode": "left_and_right"
  },
}
```

```
{
  "isValid": false,
  "levelBack": -20,
  "levelCenter": -20,
  "levelLeft": -20,
  "levelRight": -20,
  "meterIndex": -1,
  "nameInstance": -1,
  "portDirection": "IN",
  "portInstance": 7,
  "portName": "CAMERA_MIC",
  "validChanMode": "left_and_right"
},
{
  "isValid": true,
  "levelBack": -20,
  "levelCenter": -20,
  "levelLeft": -20,
  "levelRight": -20,
  "meterIndex": -1,
  "nameInstance": -1,
  "portDirection": "IN",
  "portInstance": 9,
  "portName": "THREE_POINT_FIVE",
  "validChanMode": "left_and_right"
},
{
  "isValid": true,
  "levelBack": -20,
  "levelCenter": -20,
  "levelLeft": -20,
  "levelRight": -20,
  "meterIndex": 1,
  "nameInstance": 1,
  "portDirection": "IN",
  "portInstance": 10,
  "portName": "HDMI",
  "validChanMode": "left_and_right"
},
{
  "isValid": true,
  "levelBack": -20,
  "levelCenter": -20,
  "levelLeft": -20,
  "levelRight": -20,
  "meterIndex": -1,
  "nameInstance": -1,
  "portDirection": "OUT",
  "portInstance": 0,
  "portName": "LINE_OUT",
  "validChanMode": "left_and_right"
},
{
  "isValid": false,
```

```
    "levelBack": -20,  
    "levelCenter": -20,  
    "levelLeft": -20,  
    "levelRight": -20,  
    "meterIndex": -1,  
    "nameInstance": -1,  
    "portDirection": "IN",  
    "portInstance": 11,  
    "portName": "HEADSET_IN",  
    "validChanMode": "left_and_right"  
  },  
  {  
    "isValid": false,  
    "levelBack": -20,  
    "levelCenter": -20,  
    "levelLeft": -20,  
    "levelRight": -20,  
    "meterIndex": -1,  
    "nameInstance": -1,  
    "portDirection": "OUT",  
    "portInstance": 1,  
    "portName": "HEADSET_OUT",  
    "validChanMode": "left_and_right"  
  }  
}
```

Applicable return codes	200 OK, 500 Server Error
--------------------------------	--------------------------

audio/microphones

Description	This API provides the list of microphones with relevant information for each one.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/audio/microphones
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	Body: <pre>{ "number": 0, "mute": "boolean", "type": 0, "typeInString": "Polycom IP Table Microphone", "hwVersion": "string", "swVersion": "string", "parentID": 0, "state": "MIC_STATE_GREEN" }</pre>
Applicable return codes	200 OK, 500 Server Error

audio/muted

Description	This API provides the microphone mute status.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/audio/muted
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	Body: <boolean>
Applicable return codes	200 OK, 500 Server Error

audio/muted

Description	This API performs an audio action on the system to mute or unmute microphones.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/audio/muted
Input and Output Syntax	JSON
Access Level	Admin
Input	Body: <boolean> <boolean> – True mutes the microphones. False unmutes the microphones.
Output	None
Applicable return codes	200 OK, 400 Bad Request, 500 Server Error

audio/volume

Description	This API provides information on the microphone volume level.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/audio/volume
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	Body: <integer>
Applicable return codes	200 OK, 500 Server Error

audio/volume

Description	This API performs an audio action on the system to set volume level.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/audio/volume
Input and Output Syntax	JSON
Access Level	Admin
Input	Body: <integer> <integer> – An integer representing the volume level.
Output	None
Applicable return codes	200 OK, 400 Bad Request, 500 Server Error

Calendar

calendar

Description	This API provides the status of the meetings calendar server.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/calendar
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	Body: { Status: "ONLINE" } Valid status strings include DISABLED, OFFLINE, ONLINE, CONNECTING, ERR_AUTHENTICATION, and ERR_UNKNOWN.
Applicable return codes	200 OK, 500 Server Error

calendar/meetings

Description	This API provides a list of meetings in the calendar. The query parameters may specify either a start and end time range, or a maximum number of upcoming events from the current time. The default query is to return all upcoming meetings within 24 hours from the current time.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/calendar/meetings
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted:</p> <pre>?number=<integer> ?start=<number>&end=<number></pre> <p>Example Queries:</p> <pre>/rest/calendar/meetings?number=<integer> /rest/calendar/meetings?start=<number>&end=<number></pre> <p><code>number=<integer></code> – An integer representing the maximum number of meeting items to return. Can't be combined with <code>start</code> and <code>end</code> parameters.</p> <p><code>start=<number></code> – The number representing the meeting query start time, in seconds since the epoch (1/1/1970 GMT). The default is the current time.</p> <p><code>end=<number></code> – The number representing the meeting query end time, in seconds since the epoch (1/1/1970 GMT). The default is 24 hours after start time.</p>
Output	<p>Body:</p> <pre>{ "actions": ["sip:####@gatewayaddress.com", "h323:####@gatewayaddress.com ", ""], "body": "", "canDial": true, "canceled": false, "duration": 3600, "id": "unique meeting ID string", "inCall": false, "location": "location string", "optionalAttendees": [string], "organizer": "organizer string", "privateMeeting": false, "recurring": true, "requiredAttendees": ["unique attendee",</pre>

```
        "unique attendee"  
    ],  
    "startTime": 1572274800,  
    "subject": "subject string",  
    "lastSyncTime": 1572277393  
}
```

Applicable return codes	200 OK, 500 Server Error
--------------------------------	--------------------------

calendar/meetings/{meetingId}

Description	This API provides details for a single meeting in the calendar.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/calendar/meetings/<meetingId>
Input and Output Syntax	JSON
Access Level	Admin
Input	The following query parameters are accepted: <meetingId> meetingId – The unique meeting identifier to retrieve from the calendar.
Output	Body: <pre>{ "actions": ["sip:#####@gatewayaddress.com", "h323:#####@gatewayaddress.com ", ""], "body": "", "canDial": true, "canceled": false, "duration": 3600, "id": "unique meeting ID string", "inCall": false, "location": "location string", "optionalAttendees": [string], "organizer": "organizer string", "privateMeeting": false, "recurring": true, "requiredAttendees": ["unique attendee", "unique attendee"], "startTime": 1572274800, "subject": "subject string", "lastSyncTime": 1572277393 }</pre>
Applicable return codes	200 OK, 500 Server Error

calendar/meetings/{meetingId}

Description	This API dials the calendar meeting specified by <code>meetingId</code> .
Protocol and Method	Protocol: HTTPS Method: POST Path: <code>/rest/calendar/meetings/<meetingId></code>
Input and Output Syntax	JSON
Access Level	Admin
Input	The following query parameters are accepted: <code><meetingId></code> <code>meetingId</code> – The unique meeting identifier to retrieve from the calendar.
Output	Body: <pre>{ "connectionId": 1, "success": true }</pre>
Applicable return codes	200 OK, 404 Unavailable, 500 Server Error

calendar/discover

Description	This API retrieves information about the calendar server based on the specified e-mail address and credentials.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/calendar/discover
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>Body:</p> <pre>{ "domain": <string>, "email": <string>, "username": <string>, "password": <string>, "userdomain": <string> }</pre> <p><code>domain</code> – The domain discovery method. Valid strings include <code>“sip”</code> and <code>“email”</code>. If SIP is configured, the system attempts to discover the calendar server using the system's configured SIP username, versus using the specified e-mail address.</p> <p><code>email</code> – The e-mail address of the account that displays calendaring information.</p> <p><code>username</code> – The user name credential of the account that displays calendaring information.</p> <p><code>password</code> – The password credential of the account that displays calendaring information.</p> <p><code>userdomain</code> – The domain of the account that displays calendaring information.</p>
Output	<p>Body:</p> <pre>{ "error": "NOERROR", "serverUrl": "server address string" }</pre>
Applicable return codes	200 OK, 500 Server Error

Cameras

cameras/sourceselectable

Description	This API provides the selection availability of the near source camera.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/cameras/sourceselectable
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	Body: true
Applicable return codes	200 OK, 404 Unavailable, 500 Server Error

cameras/contentstatus

Description	This API provides the system content status.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/cameras/contentstatus
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	Body: "CONTENT_IDLE"
Applicable return codes	200 OK, 500 Server Error

cameras/near/all

Description	This API provides the index number and information for all near camera sources.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/cameras/near/all
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output

Body:

```
{
  "cameraIndex": 1,
  "iconName": null,
  "model": "",
  "name": "Main",
  "sessionID": 0,
  "sourceType": "SRC_PEOPLE",
  "stateAutoFocus": "off",
  "stateFreeze": "off",
  "stateMarker": "off",
  "connected": false,
  "hasAutoFocus": false,
  "hasFocus": false,
  "hasFreeze": false,
  "hasMarker": false,
  "hasPan": false,
  "hasTilt": false,
  "hasZoom": false,
  "nearCamera": true,
  "ptzcapable": false,
  "selected": false,
  "trackable": false
},
{
  "cameraIndex": 2,
  "iconName": null,
  "model": "",
  "name": "Aux",
  "sessionID": 0,
  "sourceType": "SRC_CONTENT",
  "stateAutoFocus": "off",
  "stateFreeze": "off",
  "stateMarker": "off",
  "connected": false,
  "hasAutoFocus": false,
  "hasFocus": false,
  "hasFreeze": false,
```

```
    "hasMarker": false,
    "hasPan": false,
    "hasTilt": false,
    "hasZoom": false,
    "nearCamera": true,
    "ptzcapable": false,
    "selected": false,
    "trackable": false
  },
  {
    "cameraIndex": 3,
    "iconName": null,
    "model": "EAGLEEYE_CUBE_USB",
    "name": "EagleEye Cube USB",
    "sessionID": 0,
    "sourceType": "SRC_PEOPLE",
    "stateAutoFocus": "off",
    "stateFreeze": "off",
    "stateMarker": "off",
    "connected": true,
    "hasAutoFocus": false,
    "hasFocus": false,
    "hasFreeze": false,
    "hasMarker": false,
    "hasPan": true,
    "hasTilt": true,
    "hasZoom": true,
    "nearCamera": true,
    "ptzcapable": true,
    "selected": true,
    "trackable": true
  }
}
```

Applicable return codes	200 OK, 500 Server Error
--------------------------------	--------------------------

cameras/near/people

Description	This API provides the index number and information for all near people camera sources.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/cameras/near/people
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	<p>Body:</p> <pre>[{ "cameraIndex": 1, "iconName": null, "model": "", "name": "Main", "sessionID": 0, "sourceType": "SRC_PEOPLE", "stateAutoFocus": "off", "stateFreeze": "off", "stateMarker": "off", "connected": false, "hasAutoFocus": false, "hasFocus": false, "hasFreeze": false, "hasMarker": false, "hasPan": false, "hasTilt": false, "hasZoom": false, "nearCamera": true, "ptzcapable": false, "selected": false, "trackable": false }, { "cameraIndex": 3, "iconName": null, "model": "EAGLEEYE_CUBE_USB", "name": "EagleEye Cube USB", "sessionID": 0, "sourceType": "SRC_PEOPLE", "stateAutoFocus": "off", "stateFreeze": "off", "stateMarker": "off", "connected": true, "hasAutoFocus": false, "hasFocus": false,</pre>

```
"hasFreeze": false,  
"hasMarker": false,  
"hasPan": true,  
"hasTilt": true,  
"hasZoom": true,  
"nearCamera": true,  
"ptzcapable": true,  
"selected": true,  
"trackable": true  
}  
]
```

Applicable return codes	200 OK, 500 Server Error
--------------------------------	--------------------------

cameras/near/content

Description	This API provides the index number and information for all near content camera sources.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/cameras/near/content
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	<pre> Body: [{ "cameraIndex": 3, "iconName": null, "model": "EAGLEEYE_CUBE_USB", "name": "EagleEye Cube USB", "sessionID": 0, "sourceType": "SRC_PEOPLE", "stateAutoFocus": "off", "stateFreeze": "off", "stateMarker": "off", "connected": true, "hasAutoFocus": false, "hasFocus": false, "hasFreeze": false, "hasMarker": false, "hasPan": true, "hasTilt": true, "hasZoom": true, "nearCamera": true, "ptzcapable": true, "selected": true, "trackable": true }] </pre>
Applicable return codes	200 OK, 500 Server Error

cameras/near/{sourceID}

Description	This API provides information for the near camera specified by <code>sourceID</code> .
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: <code>/rest/cameras/near/<sourceID></code>
Input and Output Syntax	JSON
Access Level	Admin
Input	<code><sourceID></code> <code>sourceID</code> – The unique identifier for the camera index.
Output	Body: <pre>{ "cameraIndex": 2, "iconName": null, "model": "", "name": "Aux", "sessionID": 0, "sourceType": "SRC_CONTENT", "stateAutoFocus": "off", "stateFreeze": "off", "stateMarker": "off", "connected": false, "hasAutoFocus": false, "hasFocus": false, "hasFreeze": false, "hasMarker": false, "hasPan": false, "hasTilt": false, "hasZoom": false, "nearCamera": true, "ptzcapable": false, "selected": false, "trackable": false }</pre>
Applicable return codes	200 OK, 404 Unavailable, 500 Server Error

cameras/near/{sourceID}

Description	This API performs the move operation for the near camera specified by sourceID.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/cameras/near/<sourceID>
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted: <sourceID></p> <p>sourceID – The unique identifier for the camera index.</p> <p>Body:</p> <pre>{ "action": <string>, "direction": <string>, "message": <string>, "withImage": <string> }</pre> <p>action – Controls either the selected near people camera or controls the near people camera preset. Valid strings are "moveStart", "moveStop", "store", "clear", and "activate".</p> <p>direction – Defines the camera direction for action moveStart. Valid strings are "MOVE_LEFT", "MOVE_RIGHT", "MOVE_UP", "MOVE_DOWN", "MOVE_ZOOMIN", "MOVE_ZOOMOUT", "MOVE_FOCUSNEAR", and "MOVE_FOCUSFAR".</p> <p>message – Defines the camera to select. Valid strings are "LeftCamera", "RightCamera", and "BothCamera".</p> <p>withImage – Defines whether or not to store camera presets with an image. Valid strings are "Yes" and "No".</p>
Output	None
Applicable return codes	200 OK, 404 Unavailable, 500 Server Error

cameras/near/selectedpeople

Description	This API provides information for the selected near people camera source.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/cameras/near/selectedpeople
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	Body: <pre> { "cameraIndex": 3, "iconName": null, "model": "EAGLEEYE_CUBE_USB", "name": "EagleEye Cube USB", "sessionID": 0, "sourceType": "SRC_PEOPLE", "stateAutoFocus": "off", "stateFreeze": "off", "stateMarker": "off", "connected": true, "hasAutoFocus": false, "hasFocus": false, "hasFreeze": false, "hasMarker": false, "hasPan": true, "hasTilt": true, "hasZoom": true, "nearCamera": true, "ptzcapable": true, "selected": true, "trackable": true } </pre>
Applicable return codes	200 OK, 500 Server Error

cameras/near/selectedpeople

Description	This API performs the move operation for the selected near people camera source.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/cameras/near/selectedpeople
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>Body:</p> <pre>{ "action": <string>, "direction": <string>, "message": <string>, "withImage": <string> }</pre> <p>action – Controls either the selected near people camera or controls the near people camera preset. Valid strings are "moveStart", "moveStop", "store", "clear", and "activate".</p> <p>direction – Defines the camera direction for action moveStart. Valid strings are "MOVE_LEFT", "MOVE_RIGHT", "MOVE_UP", "MOVE_DOWN", "MOVE_ZOOMIN", "MOVE_ZOOMOUT", "MOVE_FOCUSNEAR", and "MOVE_FOCUSFAR".</p> <p>message – Defines the camera to select. Valid strings are "LeftCamera", "RightCamera", and "BothCamera".</p> <p>withImage – Defines whether or not to store camera presets with an image. Valid strings are "Yes" and "No".</p>
Output	None
Applicable return codes	200 OK, 500 Server Error

cameras/near/selectedcontent

Description	This API provides information for the selected near content camera source.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/cameras/near/selectedcontent
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	Body: <pre> { "cameraIndex": 2, "iconName": null, "model": "", "name": "Aux", "sessionID": 0, "sourceType": "SRC_CONTENT", "stateAutoFocus": "off", "stateFreeze": "off", "stateMarker": "off", "connected": false, "hasAutoFocus": false, "hasFocus": false, "hasFreeze": false, "hasMarker": false, "hasPan": false, "hasTilt": false, "hasZoom": false, "nearCamera": true, "ptzcapable": false, "selected": false, "trackable": false } </pre>
Applicable return codes	200 OK, 500 Server Error

cameras/near/selectedcontent

Description	This API performs the move operation for the selected near content camera source.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/cameras/near/selectedcontent
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>Body:</p> <pre>{ "action": <string>, "direction": <string>, "message": "string", "withImage": <string> }</pre> <p>action – Controls either the selected near people camera or controls the near people camera preset. Valid strings are "moveStart", "moveStop", "store", "clear", and "activate".</p> <p>direction – Defines the camera direction for action moveStart. Valid strings are "MOVE_LEFT", "MOVE_RIGHT", "MOVE_UP", "MOVE_DOWN", "MOVE_ZOOMIN", "MOVE_ZOOMOUT", "MOVE_FOCUSNEAR", and "MOVE_FOCUSFAR".</p> <p>message – Defines the camera to select. Valid strings are "LeftCamera", "RightCamera", and "BothCamera".</p> <p>withImage – Defines whether or not to store camera presets with an image. Valid strings are "Yes" and "No".</p>
Output	None
Applicable return codes	200 OK, 500 Server Error

cameras/near/presets/all

Description	This API provides the list of near camera presets.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/cameras/near/presets/all
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	Body: <pre>[{ "imageLocation": <string>, "index": 1, "sessionId": 0, "near": true, "stored": true }, { "imageLocation": <string>, "index": 2, "sessionId": 0, "near": true, "stored": true }, { "imageLocation": <string>, "index": 3, "sessionId": 0, "near": true, "stored": true }]</pre>
Applicable return codes	200 OK, 500 Server Error

cameras/near/presets/{index}

Description	This API provides the near camera presets information for a specified camera stored in the index.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/cameras/near/presets/<index>
Input and Output Syntax	JSON
Access Level	Admin
Input	The following query parameters are accepted: <index> index – The unique identifier of the near camera to retrieve from the index.
Output	Body: <pre>{ "imageLocation": <string>, "index": 1, "sessionId": 0, "near": true, "stored": true }</pre>
Applicable return codes	200 OK, 400 Bad Request, 500 Server Error

cameras/near/presets/{index}

Description	This API updates the near camera presets information for a specified camera stored in the index.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/cameras/near/presets/<index>
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted: <index></p> <p>index – The unique identifier of the near camera to retrieve from the index.</p> <p>Body:</p> <pre>{ "action": <string>, "direction": <string>, "message": "string>, "withImage": <string> }</pre> <p>action – Controls either the selected near people camera or controls the near people camera preset. Valid strings are "moveStart", "moveStop", "store", "clear", and "activate".</p> <p>direction – Defines the camera direction for action moveStart. Valid strings are "MOVE_LEFT", "MOVE_RIGHT", "MOVE_UP", "MOVE_DOWN", "MOVE_ZOOMIN", "MOVE_ZOOMOUT", "MOVE_FOCUSNEAR", and "MOVE_FOCUSFAR".</p> <p>message – Defines the camera to select. Valid strings are "LeftCamera", "RightCamera", and "BothCamera".</p> <p>withImage – Defines whether or not to store camera presets with an image. Valid strings are "Yes" and "No".</p>
Output	None
Applicable return codes	200 OK, 400 Bad Request, 500 Server Error

cameras/near/position/{sourceID}

Description	This API performs the move operation for the selected near camera source, using the exact given coordinates or the coordinates as an offset from the current position.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/cameras/near/position/<sourceID>
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted: <sourceID></p> <p>sourceID – The available value is SELECTED_PEOPLE.</p> <p>Body:</p> <pre>{ "camPosition": { "pan": <integer>, "tilt": < integer>, "zoom": <integer>, }, "relative": <boolean> }</pre> <p>pan – Pan coordinate ranges from -50000 to +50000.</p> <p>tilt – Tilt coordinate ranges from -50000 to +50000.</p> <p>zoom – Zoom coordinate ranges from -50000 to +50000.</p> <p>relative – True sets the given coordinates. False sets an offset of the given coordinates from current position.</p>
Output	None
Applicable return codes	200 OK, 400 Bad Request, 500 Server Error

cameras/far/all

Description	This API provides the list and information for all far camera sources.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/cameras/far/all
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	<pre> Body: [{ "cameraIndex": 1, "iconName": null, "model": "", "name": "Main", "sessionID": 0, "sourceType": "SRC_PEOPLE", "stateAutoFocus": "off", "stateFreeze": "off", "stateMarker": "off", "connected": false, "hasAutoFocus": false, "hasFocus": false, "hasFreeze": false, "hasMarker": false, "hasPan": false, "hasTilt": false, "hasZoom": false, "nearCamera": true, "ptzcapable": false, "selected": false, "trackable": false }] </pre>
Applicable return codes	200 OK, 404 Unavailable, 500 Server Error

cameras/far/selectedpeople

Description	This API provides information for the selected far people camera source.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/cameras/far/selectedpeople
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	Body: <pre>{ "cameraIndex": 3, "iconName": null, "model": "EAGLEEYE_CUBE_USB", "name": "EagleEye Cube USB", "sessionID": 0, "sourceType": "SRC_PEOPLE", "stateAutoFocus": "off", "stateFreeze": "off", "stateMarker": "off", "connected": true, "hasAutoFocus": false, "hasFocus": false, "hasFreeze": false, "hasMarker": false, "hasPan": true, "hasTilt": true, "hasZoom": true, "nearCamera": true, "ptzcapable": true, "selected": true, "trackable": true }</pre>
Applicable return codes	200 OK, 500 Server Error

cameras/far/selectedpeople

Description	This API performs the move operation for the selected far people camera source.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/cameras/far/selectedpeople
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>Body:</p> <pre>{ "action": <string>, "direction": <string>, "message": <string>, "withImage": <string> }</pre> <p>action – Controls either the selected near people camera or controls the near people camera preset. Valid strings are "moveStart", "moveStop", "store", "clear", and "activate".</p> <p>direction – Defines the camera direction for action moveStart. Valid strings are "MOVE_LEFT", "MOVE_RIGHT", "MOVE_UP", "MOVE_DOWN", "MOVE_ZOOMIN", "MOVE_ZOOMOUT", "MOVE_FOCUSNEAR", and "MOVE_FOCUSFAR".</p> <p>message – Defines the camera to select. Valid strings are "LeftCamera", "RightCamera", and "BothCamera".</p> <p>withImage – Defines whether or not to store camera presets with an image. Valid strings are "Yes" and "No".</p>
Output	None
Applicable return codes	200 OK, 400 Bad Request, 500 Server Error

cameras/far/{sourceID}

Description	This API provides information for the far camera specified by <code>sourceID</code> .
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: <code>/rest/cameras/far/<sourceID></code>
Input and Output Syntax	JSON
Access Level	Admin
Input	The following query parameters are accepted: <code><sourceID></code> <code>sourceID</code> – The unique identifier for the camera index.
Output	Body: <pre>{ "cameraIndex": 2, "iconName": null, "model": "", "name": "Aux", "sessionID": 0, "sourceType": "SRC_CONTENT", "stateAutoFocus": "off", "stateFreeze": "off", "stateMarker": "off", "connected": false, "hasAutoFocus": false, "hasFocus": false, "hasFreeze": false, "hasMarker": false, "hasPan": false, "hasTilt": false, "hasZoom": false, "nearCamera": true, "ptzcapable": false, "selected": false, "trackable": false }</pre>
Applicable return codes	200 OK, 400 Bad Request, 500 Server Error

cameras/far/{sourceID}

Description	This API performs the move operation for the far camera specified by <code>sourceID</code> .
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: <code>/rest/cameras/far/<sourceID></code>
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted: <code><sourceID></code></p> <p><code>sourceID</code> – The unique identifier for the camera index.</p> <p>Body:</p> <pre>{ "action": <string>, "direction": <string>, "message": <string>, "withImage": <string> }</pre> <p><code>action</code> – Controls either the selected near people camera or controls the near people camera preset. Valid strings are "moveStart", "moveStop", "store", "clear", and "activate".</p> <p><code>direction</code> – Defines the camera direction for action <code>moveStart</code>. Valid strings are "MOVE_LEFT", "MOVE_RIGHT", "MOVE_UP", "MOVE_DOWN", "MOVE_ZOOMIN", "MOVE_ZOOMOUT", "MOVE_FOCUSNEAR", and "MOVE_FOCUSFAR".</p> <p><code>message</code> – Defines the camera to select. Valid strings are "LeftCamera", "RightCamera", and "BothCamera".</p> <p><code>withImage</code> – Defines whether or not to store camera presets with an image. Valid strings are "Yes" and "No".</p>
Output	None
Applicable return codes	200 OK, 400 Bad Request, 500 Server Error

cameras/snapshot/{snapshotID}

Description	This API returns a stored snapshot specified by <code>snapshotID</code> .
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: <code>/rest/cameras/snapshot/<snapshotID></code>
Input and Output Syntax	JSON
Access Level	Admin
Input	The following query parameters are accepted: <code><snapshotID></code> <code>snapshotID</code> – The available values are <code>near_image_1.jpg</code> , <code>far_image_1.jpg</code> , or <code>content_image_1.jpg</code> .
Output	None
Applicable return codes	200 OK, 400 Bad Request, 500 Server Error

Collaboration

collaboration

Description	This API provides the current state of the collaboration session.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/collaboration
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	Body: { "sessionId": <string>, "sessionState": "ACTIVE" }
Applicable return codes	200 OK, 404 Unavailable, 500 Server Error

collaboration

Description	This API performs an action on the active collaboration session.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/collaboration
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>Body:</p> <pre>{ "action": <string>, }</pre> <p><code>action</code> – The action to perform on the collaboration session. The only valid string is "END".</p>
Output	None
Applicable return codes	200 OK, 204 No Content, 400 Bad Request, 500 Server Error

collaboration/content

Description	This API returns a context ID and begins the content save process.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/collaboration/content
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted: ?pin=<string></p> <p>Example Query: /rest/collaboration/content?pin=<string></p> <p>pin=<string> – The room pin to authorize access to content session</p>
Output	<p>Body:</p> <pre>{ "context_id": "1572362187453" }</pre>
Applicable return codes	200 OK, 204 No Content, 403 Forbidden, 500 Server Error

collaboration/content

Description	This API provides previously saved content as an attachment, using <code>context_id</code> from the <code>collaboration/content</code> POST command.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: <code>/rest/collaboration/content</code>
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted: <code>?pin=<string>&context-id=<string></code></p> <p>Example Query: <code>/rest/collaboration/content?pin=<string>&context-id=<string></code></p> <p><code>pin=<string></code> – The room pin to authorize access to content session.</p> <p><code>context-id=<string></code> – The <code>context_id</code> provided from the <code>collaboration/content</code> POST command.</p>
Output	None
Applicable return codes	200 OK, 204 No Content, 500 Server Error

collaboration/contentssavestatus

Description	This API provides the content save enable/disable status.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/collaboration/contentssavestatus
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted: ?pin=<string>&context-id=<string></p> <p>Example Query: /rest/collaboration/contentssavestatus?pin=<string>&status=<string></p> <p>pin=<string> – The room pin to authorize access to content session.</p> <p>status=<string> – True enables save. False disables save.</p>
Output	None
Applicable return codes	200 OK, 500 Server Error

collaboration/content/all

Description	This API provides and downloads a ZIP file containing saved content from the active collaboration session.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/collaboration/content/all
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted: ?pin=<string></p> <p>Example Query: /rest/collaboration/content/all?pin=<string></p> <p>pin=<string> – The room pin to authorize access to content session.</p>
Output	None
Applicable return codes	200 OK, 204 No Content, 403 Forbidden, 500 Server Error

Conferences

conferences

Description	This API provides a list of all current conference calls on the system.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/conferences
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output

```

Body:
[
  {
    "capabilities": {
      "canAcquireChair": false,
      "canAcquireFloor": false,
      "canAddTerminal": false,
      "canAddVideo": false,
      "canBlastDial": false,
      "canEscalateCall": false,
      "canGetRoster": false,
      "canHangupConference": true,
      "canHoldConf": false,
      "canJoinCCCP": false,
      "canJoinChairControlConf": false,
      "canJoinInternalConf": false,
      "canJoinMRC": false,
      "canLeaveConference": true,
      "canMuteConference": false,
      "canMuteTerminal": false,
      "canPresent": true,
      "canRemoveTerminal": true,
      "canShowCloseWide": false,
      "canSupportSecurityClassification": false,
      "cannotJoinConf": false
    },
    "connections": [
      {
        "address": "#####@gatewayaddress.com",
        "answerable": false,
        "authState": "NONE",
        "callInfo": "SIP",
        "callType": "SIP",
        "canAddVideo": false,
        "causeCode": 0,

```

```

        "duration": 16,
        "encrypted": true,
        "groupname": "",
        "grouptype": "NONE",
        "id": "2",
        "incoming": false,
        "mediaCount": 0,
        "mediaType": "AUDIOVIDEO",
        "parentConfId": "0",
        "percentConnected": 100,
        "rate": 2048,
        "referredBy": "",
        "startTime": 1572444157000,
        "state": "CONNECTED",
        "terminals": [
            {
                "href": "/rest/conferences/0/terminals/",
                "rel": "item"
            }
        ],
        "type": "MCU",
        "videoEscalationState": "NONE"
    }
],
"duration": 16,
"holdStartTime": 0,
"holdState": "NOTHELD",
"id": "0",
"isActive": true,
"isHolding": false,
"isMute": false,
"isSvcConference": false,
"isWaitingInLobby": false,
"mediaServerControlEvent": "MediaServerUnknown",
"mediaServerType": "MediaUnknown",
"startTime": 1572444157000,
"terminals": [
{
    "address": "#####@gatewayaddress.com ",
    "callerID": "#####@gatewayaddress.com ",
    "canSupportMediaStatus": false,
    "fullDescription": false,
    "holdState": "NOTHELD",
    "id": "1",
    "mediaServerType": "MediaUnknown",
    "muteLocked": false,
    "muted": false,
    "name": "participant_name",
    "parentConfId": "0",
    "parentConnectionId": "2",
    "streamsState": "AVC",
    "systemID": "bridge_identification",
    "termType": "REAL"
}
}

```

```
    ]  
  }  
]
```

Applicable return codes 200 OK, 500 Server Error

conferences

Description	This API performs a single participant conference call.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/conferences
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>Body:</p> <pre>{ "address": <string>, "rate": <integer>, "dialType": <string>, "password": <string> }</pre> <p>address – The address, hostname, or URI to dial.</p> <p>rate – An integer representing the call bitrate.</p> <p>dialType – The type of call specified in a conference dial request. Not all types may be supported on a given system. Valid strings include "LOOPBACK", "AUTO", "VIDEO", "VOICE", "H320", "H323", "SIP", "GATEWAY", "POTS", "ISDN_VOICE", "SIP_SPEAKERPHONE", "POTS_SPEAKERPHONE", "VOICE_H323", "VOICE_SIP", and "VOICE_GATEWAY".</p> <p>password – The conference password, when required to connect to the conference call.</p>
Output	<p>Body:</p> <pre>[{ "rel": "string", "href": "string" }]</pre>
Applicable return codes	200 OK, 415 Error

conferences/blast

Description	This API performs a blast dial to establish a multiple participant conference call.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/conferences/blast
Input and Output Syntax	JSON
Access Level	Admin

Input

Body:

```

{
  "endPointList": [
    {
      "addresses": [
        {
          "address": <string>,
          "rate": <integer>,
          "dialType": <string>
        },
        {
          "address": <string>,
          "rate": <integer>,
          "dialType": <string>
        }
      ]
    },
    {
      "addresses": [
        {
          "address": <string>,
          "rate": <integer>,
          "dialType": <string>
        },
        {
          "address": <string>,
          "rate": <integer>,
          "dialType": <string>
        }
      ]
    }
  ],
  "password": <string>
}

```

address – The address, hostname, or URI to dial.

rate – An integer representing the call bitrate.

`dialType` – The type of call specified in a conference dial request. Not all types may be supported on a given system. Valid strings include "LOOPBACK", "AUTO", "VIDEO", "VOICE", "H320", "H323", "SIP", "GATEWAY", "POTS", "ISDN_VOICE", "SIP_SPEAKERPHONE", "POTS_SPEAKERPHONE", "VOICE_H323", "VOICE_SIP", and "VOICE_GATEWAY".

`password` – The conference password, when required to connect to the conference call.

Output

Body:

```
{
  "rel": "string",
  "href": "string"
}
```

Applicable return codes200 OK, 400 Bad Request, 415 Error

conferences/capabilities

Description	This API provides the system's conference call capabilities.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/conferences/capabilities
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	Body: { "canBlastDial": true, "canMakeAudioCall": true, "canMakeVideoCall": true }
Applicable return codes	200 OK

conferences/{confID}

Description	This API provides information for the specified conference call.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/conferences/<confID>
Input and Output Syntax	JSON
Access Level	Admin
Input	The following query parameters are accepted: <confID> <confID> – The unique identifier of the conference to retrieve.

Output**Body:**

```
{
  "id": "string",
  "connections": [
    {
      "id": "string",
      "type": "ENDPOINT",
      "state": "INACTIVE",
      "callType": "UNKNOWN",
      "mediaType": "UNKNOWN",
      "callInfo": "string",
      "causeCode": 0,
      "rate": 0,
      "address": "string",
      "percentConnected": 0,
      "incoming": true,
      "encrypted": true,
      "authState": "NONE",
      "mediaCount": 0,
      "terminals": [
        {
          "rel": "self",
          "href": "string"
        }
      ]
    }
  ],
  "startTime": 0,
  "duration": 0,
  "parentConfId": "string",
  "answerable": true,
  "groupname": "string",
  "grouptype": "string",
  "canAddVideo": true,
  "videoEscalationState": "string",
  "referredBy": "string"
}
```

```
],
"terminals": [
  {
    "id": "string",
    "name": "string",
    "callerID": "string",
    "address": "string",
    "systemID": "string",
    "muted": true,
    "holdState": "NOTHELD",
    "termType": "REAL",
    "muteLocked": true,
    "canSupportMediaStatus": true,
    "parentConfId": "string",
    "parentConnectionId": "string",
    "fullDescription": true,
    "mediaServerType": "string",
    "streamsState": "string"
  }
],
"capabilities": {
  "canGetRoster": true,
  "canMuteConference": true,
  "canMuteTerminal": true,
  "canPresent": true,
  "canAddTerminal": true,
  "canRemoveTerminal": true,
  "canAcquireChair": true,
  "canAcquireFloor": true,
  "canHangupConference": true,
  "canLeaveConference": true,
  "canBlastDial": true,
  "canEscalateCall": true,
  "canHoldConf": true,
  "canShowCloseWide": true,
  "canJoinChairControlConf": true,
  "canJoinCCCP": true,
  "canJoinMRC": true,
  "canJoinInternalConf": true,
  "cannotJoinConf": true,
  "canSupportSecurityClassification": true,
  "canAddVideo": true
},
"startTime": 0,
"duration": 0,
"isSvcConference": true,
"isActive": true,
"isHolding": true,
"isMute": true,
"holdState": "NOTHELD",
"holdStartTime": 0,
"mediaServerType": "string",
"mediaServerControlEvent": "string",
"isWaitingInLobby": true
```

}

Applicable return codes 200 OK, 400 Bad Request, 404 Unavailable

conferences/{confID}

Description	This API hangs up and disconnects the specified conference call.
Protocol, Method, and Path	Protocol: HTTPS Method: DELETE Path: /rest/conferences/<confID>
Input and Output Syntax	JSON
Access Level	Admin
Input	The following query parameters are accepted: <confID> confID – The unique identifier of the conference to retrieve.
Output	Body: 0
Applicable return codes	200 OK, 404 Unavailable, 500 Server Error

conferences/{confID}/connections

Description	This API provides a list of connections associated to the specified conference.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/conferences/<confID>/connections
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted: ?filter=<string></p> <p>Example Query: /rest/conferences/<confID>/connections?filter=<string></p> <p>confID – The unique identifier of the conference to retrieve.</p> <p>?filter=<string> – Available values are ALL, ACTIVE, ANSWERABLE, INCOMING, and PENDING.</p>
Output	<p>Body:</p> <pre>[{ "address": "#####@gatewayaddress.com", "answerable": false, "authState": "NONE", "callInfo": "SIP", "callType": "SIP", "canAddVideo": false, "causeCode": 0, "duration": 16, "encrypted": true, "groupname": "", "grouptype": "NONE", "id": "2", "incoming": false, "mediaCount": 0, "mediaType": "AUDIOVIDEO", "parentConfId": "0", "percentConnected": 100, "rate": 2048, "referredBy": "", "startTime": 1572444157000, "state": "CONNECTED", "terminals": [{ "href": "/rest/conferences/0/terminals/", "rel": "item" }] }]</pre>

```
    ],  
    "type": "MCU",  
    "videoEscalationState": "NONE"  
  }  
]
```

Applicable return codes 200 OK, 404 Unavailable

conferences/{confID}/connections

Description	This API dials and adds a new endpoint connection to an active conference specified by <code>confID</code> .
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: <code>/rest/conferences/<confID>/connections</code>
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted: <code>?filter=<string></code></p> <p>Example Query: <code>/rest/conferences/<confID>/connections</code></p> <p><code>confID</code> – The unique identifier of the conference to retrieve.</p> <p>Body:</p> <pre>{ "address": "string", "rate": 0, "dialType": "LOOPBACK", "password": "string" }</pre>
Output	<p>Body:</p> <pre>[{ "rel": "self", "href": "string" }]</pre>
Applicable return codes	200 OK, 404 Unavailable, 415 Error

conferences/{confID}/connections/{connID}

Description	This API provides information for a specific connection using <code>connID</code> , on the specified conference call using <code>confID</code> .
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: <code>/rest/conferences/<confID>/connections/<connID></code>
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted: <code><confID>/connections/<connID></code></p> <p><code>confID</code> – The unique identifier of the conference to retrieve.</p> <p><code>connID</code> – The unique identifier for the connection to retrieve.</p>
Output	<p>Body:</p> <pre>{ "id": "string", "type": "ENDPOINT", "state": "INACTIVE", "callType": "UNKNOWN", "mediaType": "UNKNOWN", "callInfo": "string", "causeCode": 0, "rate": 0, "address": "string", "percentConnected": 0, "incoming": true, "encrypted": true, "authState": "NONE", "mediaCount": 0, "terminals": [{ "rel": "self", "href": "string" }], "startTime": 0, "duration": 0, "parentConfId": "string", "answerable": true, "groupname": "string", "grouptype": "string", "canAddVideo": true, "videoEscalationState": "string", "referredBy": "string" }</pre>

Applicable return codes 200 OK, 404 Unavailable

conferences/{confID}/connections/{connID}

Description	This API hangs up and disconnects a specific connection using <code>connID</code> , on the specified conference call using <code>confID</code> .
Protocol, Method, and Path	Protocol: HTTPS Method: DELETE Path: /rest/conferences/<confID>/connections/<connID>
Input and Output Syntax	JSON
Access Level	Admin
Input	The following query parameters are accepted: <confID>/connections/<connID> <code>confID</code> – The unique identifier of the conference to retrieve. <code>connID</code> – The unique identifier for the connection to retrieve.
Output	Body: 0
Applicable return codes	200 OK, 404 Unavailable, 500 Server Error

conferences/{confID}/terminals

Description	This API provides a list of terminals associated with the specified conference call using <code>confID</code> .
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: <code>/rest/conferences/<confID>/terminals</code>
Input and Output Syntax	JSON
Access Level	Admin
Input	The following query parameters are accepted: <code><confID></code> <code>confID</code> – The unique identifier of the conference to retrieve.
Output	Body: <pre>[{ "id": "string", "name": "string", "callerID": "string", "address": "string", "systemID": "string", "muted": true, "holdState": "NOTHELD", "termType": "REAL", "muteLocked": true, "canSupportMediaStatus": true, "parentConfId": "string", "parentConnectionId": "string", "fullDescription": true, "mediaServerType": "string", "streamsState": "string" }]</pre>
Applicable return codes	200 OK, 404 Unavailable

conferences/{confID}/terminals/{termID}

Description	This API provides a specific terminal using <code>termID</code> , associated with the specified conference call using <code>confID</code> .
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: <code>/rest/conferences/<confID>/terminals/<termID></code>
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted: <code><confID>/terminals/<termID></code></p> <p><code>confID</code> – The unique identifier of the conference to retrieve.</p> <p><code>termID</code> – The unique identifier for the terminal to retrieve.</p>
Output	<p>Body:</p> <pre>{ "id": "string", "name": "string", "callerID": "string", "address": "string", "systemID": "string", "muted": true, "holdState": "NOTHELD", "termType": "REAL", "muteLocked": true, "canSupportMediaStatus": true, "parentConfId": "string", "parentConnectionId": "string", "fullDescription": true, "mediaServerType": "string", "streamsState": "string" }</pre>
Applicable return codes	200 OK, 404 Unavailable

conferences/{confID}/terminals/{termID}

Description	This API hangs up and disconnects a specific terminal using <code>termID</code> , associated with the specified conference call using <code>confID</code> .
Protocol, Method, and Path	Protocol: HTTPS Method: DELETE Path: /rest/conferences/<confID>/terminals/<termID>
Input and Output Syntax	JSON
Access Level	Admin
Input	The following query parameters are accepted: <confID>/terminals/<termID> <code>confID</code> – The unique identifier of the conference to retrieve. <code>termID</code> – The unique identifier for the terminal to retrieve.
Output	Body: 0
Applicable return codes	200 OK, 404 Unavailable, 500 Server Error

conferences/{confID}/mediastats

Description	This API provides a list of connections associated to the specified conference.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/conferences/<confID>/mediastats
Input and Output Syntax	JSON
Access Level	Admin
Input	The following query parameters are accepted: <confID> confID – The unique identifier of the conference to retrieve.

Output

Body:

```
[
  {
    "activeAnnexes": "---",
    "actualBitRate": 64,
    "actualFrameRate": 0,
    "address": "none",
    "bitRate": 64,
    "connectionID": "2",
    "encryptionAlgorithm": "AES-256",
    "encryptionMode": "ctr",
    "encryptionType": "TLS/SDES",
    "errorConcealment": "---",
    "frameRate": 0,
    "index": 0,
    "jitter": 0,
    "latency": 126,
    "maxJitter": 0,
    "mediaAlgorithm": "SirenLPR",
    "mediaDirection": "TX",
    "mediaFormat": "---",
    "mediaState": "OPENED",
    "mediaStream": "audioTx",
    "mediaType": "AUDIO",
    "numberOfErrors": 0,
    "packetLoss": 1,
    "percentPacketLoss": 0.0,
    "prevTermId": "-1",
    "quality": 100,
    "reservationError": "err0",
    "reservationProtocol": "rsvp",
    "reservationState": "reserving",
    "termId": "1",
    "totalPackets": 763,
    "uniqueId": null
  }
]
```

```
    },
    {
      "activeAnnexes": "---",
      "actualBitRate": 64,
      "actualFrameRate": 0,
      "address": "none",
      "bitRate": 64,
      "connectionID": "2",
      "encryptionAlgorithm": "AES-256",
      "encryptionMode": "ctr",
      "encryptionType": "TLS/SDES",
      "errorConcealment": "---",
      "frameRate": 0,
      "index": 0,
      "jitter": 3,
      "latency": 0,
      "maxJitter": 3,
      "mediaAlgorithm": "SirenLPR",
      "mediaDirection": "RX",
      "mediaFormat": "---",
      "mediaState": "OPENED",
      "mediaStream": "audioRx",
      "mediaType": "AUDIO",
      "numberOfErrors": 0,
      "packetLoss": 0,
      "percentPacketLoss": 0.0,
      "prevTermId": "-1",
      "quality": 100,
      "reservationError": "err0",
      "reservationProtocol": "rsvp",
      "reservationState": "notReserved",
      "termId": "1",
      "totalPackets": 759,
      "uniqueId": null
    },
    {
      "activeAnnexes": "---",
      "actualBitRate": 1,
      "actualFrameRate": 0,
      "address": "none",
      "bitRate": 1984,
      "connectionID": "2",
      "encryptionAlgorithm": "AES-256",
      "encryptionMode": "ctr",
      "encryptionType": "TLS/SDES",
      "errorConcealment": "---",
      "frameRate": 0,
      "index": 0,
      "jitter": 0,
      "latency": 152,
      "maxJitter": 0,
      "mediaAlgorithm": "H.264-HP",
      "mediaDirection": "TX",
      "mediaFormat": "1080p",
```

```

    "mediaState": "OPENED",
    "mediaStream": "videoTx",
    "mediaType": "VIDEO",
    "numberOfErrors": 0,
    "packetLoss": 0,
    "percentPacketLoss": 0.0,
    "prevTermId": "-1",
    "quality": 100,
    "reservationError": "err0",
    "reservationProtocol": "rsvp",
    "reservationState": "reserving",
    "termId": "1",
    "totalPackets": 3132,
    "uniqueId": null
  }
  {
    "activeAnnexes": "---",
    "actualBitRate": 1535,
    "actualFrameRate": 7,
    "address": "none",
    "bitRate": 1984,
    "connectionID": "2",
    "encryptionAlgorithm": "AES-256",
    "encryptionMode": "ctr",
    "encryptionType": "TLS/SDES",
    "errorConcealment": "LPRv1",
    "frameRate": 7,
    "index": 0,
    "jitter": 0,
    "latency": 152,
    "maxJitter": 16,
    "mediaAlgorithm": "H.264-HP",
    "mediaDirection": "RX",
    "mediaFormat": "1080p",
    "mediaState": "OPENED",
    "mediaStream": "videoRx",
    "mediaType": "VIDEO",
    "numberOfErrors": 0,
    "packetLoss": 19,
    "percentPacketLoss": 0.0,
    "prevTermId": "-1",
    "quality": 100,
    "reservationError": "err0",
    "reservationProtocol": "rsvp",
    "reservationState": "notReserved",
    "termId": "1",
    "totalPackets": 1249,
    "uniqueId": null
  }
]

```

Applicable return codes	200 OK, 404 Unavailable
--------------------------------	-------------------------

conferences/{confID}/connections/{connID}/mediastat

Description	This API provides media statistics for a specific connection using <code>connID</code> , on the specified conference call using <code>confID</code> .
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/conferences/<confID>/connections/<connID>/mediastat
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted:</p> <p><confID>/connections/<connID>/mediastat</p> <p><code>confID</code> – The unique identifier of the conference to retrieve.</p> <p><code>connID</code> – The unique identifier for the connection to retrieve.</p>
Output	<p>Body:</p> <pre>[{ "connectionID": "string", "mediaDirection": "string", "mediaType": "string", "index": 0, "mediaState": "string", "mediaStream": "string", "mediaAlgorithm": "string", "mediaFormat": "string", "encryptionType": "string", "encryptionAlgorithm": "string", "encryptionMode": "string", "errorConcealment": "string", "numberOfErrors": 0, "bitRate": 0, "actualBitRate": 0, "frameRate": 0, "actualFrameRate": 0, "totalPackets": 0, "packetLoss": 0, "percentPacketLoss": 0, "jitter": 0, "maxJitter": 0, "latency": 0, "address": "string", "activeAnnexes": "string", "reservationProtocol": "string", "reservationState": "string", "reservationError": "string", "termId": "string",</pre>

```
        "prevTermId": "string",
        "quality": 0,
        "uniqueId": "string"
    }
]
```

Applicable return codes 200 OK, 404 Unavailable

conferences/{confID}/mediastats/terminals/{termID}

Description	This API provides media statistics for a specific terminal using <code>termID</code> , associated with the specified conference call using <code>confID</code> .
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: <code>/rest/conferences/<confID>/mediastats/terminals/<termID></code>
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted: <code><confID>/mediastats/terminals/<termID></code></p> <p><code>confID</code> – The unique identifier of the conference to retrieve.</p> <p><code>termID</code> – The unique identifier for the terminal to retrieve.</p>
Output	<p>Body:</p> <pre>[{ "connectionID": "string", "mediaDirection": "string", "mediaType": "string", "index": 0, "mediaState": "string", "mediaStream": "string", "mediaAlgorithm": "string", "mediaFormat": "string", "encryptionType": "string", "encryptionAlgorithm": "string", "encryptionMode": "string", "errorConcealment": "string", "numberOfErrors": 0, "bitRate": 0, "actualBitRate": 0, "frameRate": 0, "actualFrameRate": 0, "totalPackets": 0, "packetLoss": 0, "percentPacketLoss": 0, "jitter": 0, "maxJitter": 0, "latency": 0, "address": "string", "activeAnnexes": "string", "reservationProtocol": "string", "reservationState": "string",</pre>

```
    "reservationError": "string",
    "termId": "string",
    "prevTermId": "string",
    "quality": 0,
    "uniqueId": "string"
  }
]
```

Applicable return codes 200 OK, 404 Unavailable

conferences/{confID}/termmediastats

Description	This API provides quality metrics for all terminal endpoints associated with the specified conference call using <code>confID</code> .
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/conferences/<confID>/termmediastats
Input and Output Syntax	JSON
Access Level	Admin
Input	The following query parameters are accepted: <confID> <code>confID</code> – The unique identifier of the conference to retrieve.
Output	Body: [{ "quality": 0, "id": "string", }]
Applicable return codes	200 OK, 404 Unavailable

Directory

directory/favorites

Description	This API provides a list of favorite directory entries, sorted by the favorite's index value.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/directory/favorites
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted: ?start=<integer>&limit=<integer></p> <p>Example Query: /rest/directory/favorites?start=<integer>&limit=<integer></p> <p>start=<integer> – An integer representing the starting (1-based) index of the search results. Defaults to 1, if not specified.</p> <p>limit=<integer> – An integer representing the maximum number of search results to return. Defaults to 1, if not specified.</p>
Output	<p>Body:</p> <pre>{ "entries": [{ "index": 1, "firstName": "string", "lastName": "string", "displayName": "string", "id": "string", "serverId": "string", "link": { "rel": "self", "href": "string" } }], "next": { "rel": "self", "href": "string" } }</pre>
Applicable return codes	200 OK, 400 Bad Request, 500 Server Error

directory/global/server

Description	This API provides information about the configured global directory server.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/directory/global/server
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	Body: <pre> { "id": "string", "address": "string", "protocol": "LOCAL", Status: "DISABLED", "presenceServer": { "protocol": "NONE", Status: "DISABLED" }, "link": { "rel": "self", "href": "string" } } </pre>
Applicable return codes	200 OK, 500 Server Error

directory/global/mtddefaultgroupentry

Description	This API provides information about the multi-tier directory group entry, if configured.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/directory/global/mtddefaultgroupentry
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	Body: <pre>{ "id": "string", "serverId": "string", "type": "SINGLE", "displayName": "string", "firstName": "string", "lastName": "string", "fullName": "string", "presence": "OFFLINE", "favorite": true, "readOnly": true, "addedLocally": true, "link": { "rel": "self", "href": "string" } }</pre>
Applicable return codes	200 OK, 404 Unavailable, 500 Server Error

directory/local/server

Description	This API provides information about the configured local directory server.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/directory/local/server
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	<pre> Body: { "id": "string", "address": "string", "protocol": "LOCAL", Status: "DISABLED", "presenceServer": { "protocol": "NONE", Status: "DISABLED" }, "link": { "rel": "self", "href": "string" } } </pre>
Applicable return codes	200 OK, 500 Server Error

directory/local/entries

Description	This API adds a new entry to the local directory server.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/directory/local/entries
Input and Output Syntax	JSON
Access Level	Admin

Input

Body:

```

{
  "type": <string>,
  "displayName": <string>,
  "firstName": <string>,
  "lastName": <string>,
  "fullName": <string>,
  "email": <string>,
  "homePhone": <string>,
  "workPhone": <string>,
  "mobilePhone": <string>,
  "imageLocation": <string>,
  "favorite": <boolean>,
  "devices": [
    {
      "name": <string>,
      "addressList": [
        {
          "type": <string>,
          "number": <string>,
          "extension": <string>,
          "rate": <string>
        },
        {
          "type": <string>,
          "number": <string>,
          "extension": <string>,
          "rate": <string>
        }
      ]
    }
  ],
  {
    "name": <string>,
    "addressList": [
      {
        "type": <string>,
        "number": <string>,
        "extension": <string>,
        "rate": <string>
      }
    ]
  }
}

```

```

        {
            "type": <string>,
            "number": <string>,
            "extension": <string>,
            "rate": <string>
        }
    ]
}

```

`type` – The type of directory entry. Valid strings include "SINGLE" and "GROUP".

`displayName` – Display name of the directory entry.

`firstName` – First name of the directory entry.

`lastName` – Last name of the directory entry.

`fullName` – Full name of the directory entry.

`email` – E-mail address of the directory entry.

`homePhone` – Home phone number of the directory entry.

`workPhone` – Work phone number of the directory entry.

`mobilePhone` – Mobile phone number of the directory entry.

`imageLocation` – Location of an image associated with the directory entry. Usually a URL to an avatar, icon, or portrait.

`favorite` – True sets the favorite status. False unsets the favorite status.

`device name` – Name of the directory entry device.

`addressList type` – Type of address for the dialable directory entry device. Valid strings include "IP_ADDRESS", "IP_EXTENSION", "H323_NAME", "SIP", "POTS", "ISDN", "EMAIL", "TELEPHONE", and "MOBILE".

`addressList number` – Number of the directory entry device address.

`addressList extension` – Extension for the number of the directory entry device address.

`addressList rate` – Rate to use when dialing the directory entry device address.

Output

None

Applicable return codes	201 Created, 400 Bad Request, 405 Not Allowed, 500 Server Error, 507 Insufficient Storage
--------------------------------	---

directory/local/entries/{entryId}

Description	This API provides information about the configured local directory server.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/directory/local/entries/<entryId>
Input and Output Syntax	JSON
Access Level	Admin
Input	The following query parameters are accepted: <entryId> entryId - The unique identifier of the entry to retrieve.

Output**Body:**

```
{
  "id": "string",
  "serverId": "string",
  "type": "SINGLE",
  "displayName": "string",
  "firstName": "string",
  "lastName": "string",
  "fullName": "string",
  "presence": "OFFLINE",
  "email": "string",
  "homePhone": "string",
  "workPhone": "string",
  "mobilePhone": "string",
  "imageLocation": "string",
  "serverProtocol": "string",
  "devices": [
    {
      "id": "string",
      "name": "string",
      "addressList": [
        {
          "type": "IP_ADDRESS",
          "number": "string",
          "extension": "string",
          "rate": "string"
        }
      ]
    }
  ],
  "favorite": true,
  "readOnly": true,
  "addedLocally": true,
  "link": {
    "rel": "self",
```

```
        "href": "string"
      }
    }
```

Applicable return codes 200 OK, 404 Unavailable, 500 Server Error

directory/local/entries/{entryId}

Description	This API removes an entry from the local directory server.
Protocol, Method, and Path	Protocol: HTTPS Method: DELETE Path: /rest/directory/local/entries/<entryId>
Input and Output Syntax	JSON
Access Level	Admin
Input	The following query parameters are accepted: <entryId> entryId - The unique identifier of the entry to retrieve.
Output	None
Applicable return codes	204 No Content, 404 Unavailable, 500 Server Error

directory/local/entries/{entryId}

Description	This API performs an update to an existing entry within the local directory server.
Protocol, Method, and Path	Protocol: HTTPS Method: PUT Path: /rest/directory/local/entries/<entryId>
Input and Output Syntax	JSON
Access Level	Admin

Input

The following query parameters are accepted:
<entryId>

entryId – The unique identifier of the entry to retrieve.

Body:

```
{
  "type": <string>,
  "displayName": <string>,
  "firstName": <string>,
  "lastName": <string>,
  "fullName": <string>,
  "email": <string>,
  "homePhone": <string>,
  "workPhone": <string>,
  "mobilePhone": <string>,
  "imageLocation": <string>,
  "favorite": <boolean>,
  "devices": [
    {
      "name": <string>,
      "addressList": [
        {
          "type": <string>,
          "number": <string>,
          "extension": <string>,
          "rate": <string>
        },
        {
          "type": <string>,
          "number": <string>,
          "extension": <string>,
          "rate": <string>
        }
      ]
    }
  ],
  {
    "name": <string>,
    "addressList": [
      {
```

```

        "type": <string>,
        "number": <string>,
        "extension": <string>,
        "rate": <string>
    },
    {
        "type": <string>,
        "number": <string>,
        "extension": <string>,
        "rate": <string>
    }
]
}
]
}

```

`type` – The type of directory entry. Valid strings include "SINGLE" and "GROUP".

`displayName` – Display name of the directory entry.

`firstName` – First name of the directory entry.

`lastName` – Last name of the directory entry.

`fullName` – Full name of the directory entry.

`email` – E-mail address of the directory entry.

`homePhone` – Home phone number of the directory entry.

`workPhone` – Work phone number of the directory entry.

`mobilePhone` – Mobile phone number of the directory entry.

`imageLocation` – Location of an image associated with the directory entry. Usually a URL to an avatar, icon, or portrait.

`favorite` – True sets the favorite status. False unsets the favorite status.

`device name` – Name of the directory entry device.

`addressList type` – Type of address for the dialable directory entry device. Valid strings include "IP_ADDRESS", "IP_EXTENSION", "H323_NAME", "SIP", "POTS", "ISDN", "EMAIL", "TELEPHONE", and "MOBILE".

`addressList number` – Number of the directory entry device address.

`addressList extension` – Extension for the number of the directory entry device address.

	<code>addressList rate</code> – Rate to use when dialing the directory entry device address.
Output	None
Applicable return codes	204 No Content, 400 Bad Request, 404 Unavailable, 500 Server Error

directory/local/entries/{entryId}

Description	This API performs an action on the specified entry within the local directory server.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/directory/local/entries/<entryId>
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted:</p> <p><entryId></p> <p>entryId – The unique identifier of the entry to retrieve.</p> <p>Body:</p> <pre>{ "action": <string>, "deviceId": <string> }</pre> <p>action – The action to perform on the directory entry. The only valid string is "dial".</p> <p>deviceId – Optional property for dial actions to specify the entry's device ID from which to dial.</p>
Output	None
Applicable return codes	204 No Content, 404 Unavailable, 500 Server Error

directory/local/entries/{entryId}/favorite

Description	This API performs an action to set or unset favorite status on an existing entry within the local directory server.
Protocol, Method, and Path	Protocol: HTTPS Method: PUT Path: /rest/directory/local/entries/<entryId>/favorite
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted:</p> <p><entryId></p> <p>entryId – The unique identifier of the entry to retrieve.</p> <p>Body:</p> <pre>{ "favorite": <boolean> }</pre> <p>favorite – True sets the favorite status. False unsets the favorite status.</p>
Output	None
Applicable return codes	200 OK, 400 Bad Request, 404 Unavailable, 500 Server Error

directory/local/entries/{entryId}/favorite

Description	This API performs an update to the position order of an existing favorite entry within the local directory server.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/directory/local/entries/<entryId>/favorite
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted:</p> <p><entryId></p> <p>entryId – The unique identifier of the entry to retrieve.</p> <p>Body:</p> <pre>{ "index": <integer> }</pre> <p>index – An integer to set the favorite position order index.</p>
Output	None
Applicable return codes	200 OK, 400 Bad Request, 404 Unavailable, 500 Server Error

directory/local/entries/{entryId}/members

Description	This API performs an action on the members of the specified directory group within the local directory server.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/directory/local/entries/<entryId>/members
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted:</p> <p><entryId></p> <p>entryId – The unique identifier of the entry to retrieve.</p> <p>Body:</p> <pre>{ "action": <string>, "entryId": <string> }</pre> <p>action – The action to perform on the directory group. Valid strings include "query", "add", and "remove".</p> <p>entryId – Optional property for group add/remove actions that may specify an entry ID.</p>
Output	None
Applicable return codes	201 Created, 204 No Content, 400 Bad Request, 404 Unavailable, 500 Server Error

directory/queries

Description	This API performs a new asynchronous directory entries search query.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/directory/queries
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>Body:</p> <pre>{ "searchString": <string>, "serverScope": <string>, "entryScope": <string>, "groupScope": <string>, "order": <string>, "groupID": <string> }</pre> <p><code>searchString</code> – The value for the query search. If this property is empty in the query then all entries are returned.</p> <p><code>serverScope</code> – The server search scope of the query. Defaults to "ALL" if not specified. Valid strings include "ALL", "LOCAL", "GLOBAL", and "FAVORITES".</p> <p><code>entryScope</code> – The entry type search scope of the query. Defaults to "ANY" if not specified. Valid strings include "SINGLE", "GROUP", "ANY_TIERED", and "ANY".</p> <p><code>groupScope</code> – The group search scope of the query. Defaults to "ONE_LEVEL" if not specified. Valid strings include "ONE_LEVEL" and "RECURSIVE".</p> <p><code>order</code> – The order of the results. Defaults to "DISPLAY_NAME" if not specified. Valid strings include "FIRST_NAME", "LAST_NAME", and "DISPLAY_NAME".</p> <p><code>groupID</code> – A unique identifier of the group.</p>
Output	<p>Body:</p> <pre>{ "id": "string" }</pre>
Applicable return codes	201 Created, 500 Server Error

directory/queries/initial

Description	This API provides a new asynchronous directory entries search query, used to retrieve a default list of directory entries.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/directory/queries/initial
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	Body: { "id": "string" }
Applicable return codes	201 Created, 500 Server Error

directory/queries/{queryId}

Description	This API provides results of a directory entries search for a specified query ID.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/directory/queries/<queryId>
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted: ?start=<integer>&limit=<integer></p> <p>Example Query: /rest/directory/queries/<queryId>?start=<integer>&limit=<integer></p> <p>queryId – The query ID of the directory search to retrieve.</p> <p>start=<integer> – The starting index of the search query results to return. Defaults to 1 if not specified.</p> <p>limit=<integer> – The maximum number of search query results to return. Defaults to 1 if not specified.</p>
Output	<p>Body:</p> <pre>{ "entries": [{ "id": "string", "serverId": "string", "type": "SINGLE", "displayName": "string", "firstName": "string", "lastName": "string", "fullName": "string", "presence": "OFFLINE", "favorite": true, "readOnly": true, "addedLocally": true, "link": { "rel": "self", "href": "string" } }], "next": { "rel": "self", "href": "string" } }</pre>

}

Applicable return codes 200 OK, 204 No Content, 400 Bad Request, 404 Unavailable,
500 Server Error

directory/queries/{queryId}

Description	This API removes a directory entry search query for a specified query ID.
Protocol, Method, and Path	Protocol: HTTPS Method: DELETE Path: /rest/directory/queries/<queryId>
Input and Output Syntax	JSON
Access Level	Admin
Input	The following query parameters are accepted: <queryId> queryId – The query ID of the directory search to delete.
Output	None
Applicable return codes	204 No Content, 404 Unavailable, 500 Server Error

directory/{serverId}/entries/{entryId}

Description	This API provides a specified directory entry from the specified directory server.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/directory/<serverId>/entries/<entryId>
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted: <serverId>/entries/<entryId></p> <p>serverId – The unique identifier of the directory server.</p> <p>entryId – The unique identifier of the entry to retrieve.</p>
Output	<p>Body:</p> <pre>{ "id": "string", "serverId": "string", "type": "SINGLE", "displayName": "string", "firstName": "string", "lastName": "string", "fullName": "string", "presence": "OFFLINE", "email": "string", "homePhone": "string", "workPhone": "string", "mobilePhone": "string", "imageLocation": "string", "serverProtocol": "string", "devices": [{ "id": "string", "name": "string", "addressList": [{ "type": "IP_ADDRESS", "number": "string", "extension": "string", "rate": "string" }] }], "favorite": true, "readOnly": true, "addedLocally": true, }</pre>

```
"link": {  
  "rel": "self",  
  "href": "string"  
}
```

Applicable return codes 200 OK, 404 Unavailable, 500 Server Error

directory/{serverId}/entries/{entryId}

Description	This API performs an action on the specified entry within the specified directory server.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/directory/<serverId>/entries/<entryId>
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted: <serverId>/entries/<entryId></p> <p><code>serverId</code> – The unique identifier of the directory server.</p> <p><code>entryId</code> – The unique identifier of the entry to retrieve.</p> <p>Body:</p> <pre>{ "action": <string>, "deviceId": <string> }</pre> <p><code>action</code> – The action to perform on the directory entry. The only valid string is "dial".</p> <p><code>deviceId</code> – Optional property for dial actions to specify the entry's device ID from which to dial.</p>
Output	None
Applicable return codes	204 No Content, 400 Bad Request, 404 Unavailable, 500 Server Error, 501 Not Implemented, 507 Insufficient Storage

directory/{serverId}/entries/{entryId}/favorite

Description	This API performs an action to set or unset favorite status on the specified entry within the specified directory server.
Protocol, Method, and Path	Protocol: HTTPS Method: PUT Path: /rest/directory/<serverId>/entries/<entryId>/favorite
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted: <serverId>/entries/<entryId>/favorite</p> <p>serverId – The unique identifier of the directory server.</p> <p>entryId – The unique identifier of the entry to retrieve.</p> <p>Body:</p> <pre>{ "favorite": <boolean> }</pre> <p>favorite – True sets the favorite status. False unsets the favorite status.</p>
Output	<p>Body:</p> <pre>{ "success": true, "reason": "string" }</pre>
Applicable return codes	200 OK, 400 Bad Request, 404 Unavailable, 500 Server Error

directory/{serverId}/entries/{entryId}/favorite

Description	This API performs an update to the position order of the specified entry within the specified directory server.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/directory/<serverId>/entries/<entryId>/favorite
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted: <serverId>/entries/<entryId>/favorite</p> <p>serverId – The unique identifier of the directory server.</p> <p>entryId – The unique identifier of the entry to retrieve.</p> <p>Body:</p> <pre>{ "index": <integer> }</pre> <p>index – An integer to set the favorite position order index.</p>
Output	<p>Body:</p> <pre>{ "success": true, "reason": "string" }</pre>
Applicable return codes	200 OK, 400 Bad Request, 404 Unavailable, 500 Server Error

directory/{serverId}/entries/{entryId}/members

Description	This API performs an action on the members of the specified directory group within the specified directory server.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/directory/<serverId>/entries/<entryId>/members
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>The following query parameters are accepted: <serverId>/entries/<entryId>/members</p> <p>serverId – The unique identifier of the directory server.</p> <p>entryId – The unique identifier of the entry to retrieve.</p> <p>Body:</p> <pre>{ "action": <string>, "entryId": <string> }</pre> <p>action – The action to perform on the directory group. Valid strings include "query", "add", and "remove".</p> <p>entryId – Optional property for group add/remove actions that may specify an entry ID.</p>
Output	<p>Body:</p> <pre>{ "id": "string" }</pre>
Applicable return codes	201 Created, 204 No Content, 400 Bad Request, 404 Unavailable, 500 Server Error

directory/import

Description	This API performs an import of an XML file containing directory entries.
Protocol, Method, and Path	Protocol: HTTPS Method: PUT Path: /rest/directory/import
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	None
Applicable return codes	204 No Content, 400 Bad Request, 500 Server Error

directory/export

Description	This API performs an export of directory entries to an XML file and makes them available for download.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/directory/export
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	None
Applicable return codes	200 OK, 400 Bad Request, 500 Server Error

Session

session

Description	This API creates and authenticates a session on the system.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/session
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>Body:</p> <pre>{ "user": <string>, "password": <string> }</pre> <p>user – The user ID for signing into the system.</p> <p>password – The password for signing into the system.</p>
Output	<p>Body:</p> <pre>{ "success": true, "loginStatus": { "loginResult": "NOLOCKOUT", "lastLoginClient": "198.168.1.1", "lastLoginTime": 1, "lastLoginClientType": "WEB", "failedLogins": 0, "ispasswordAgeLimitReached": false } "session": { "sessionId": "POWODrZMt/Y4yyMhOo0FXvs5yDdehGAapFhoB", "role": "ADMIN", "clientType": "WEB", "location": "192.168.1.2", "userId": "admin", "creationTime": 1, "isAuthenticated": true, "isStale": false, "isNew": true, "isConnected": false } }</pre>
Applicable return codes	200 SUCCESS, 403 LOG-IN ATTEMPT FAILED

System

system/h323gatekeepers

Description	This API provides the status and information of the H323 gatekeeper servers.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/system/h323gatekeepers
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	Body: [{ "state": "ON", "address": "string" "version": "string" "model": "string" }]
Applicable return codes	200 OK, 500 Server Error

system/logs

Description	This API provides the system logs in a .tar file as an octet stream file attachment response.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/system/logs
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	None
Applicable return codes	200 OK, 500 Server Error

system/network/ping

Description	This API performs an ICMP echo ping to the destination network host.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/system/network/ping
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>Body:</p> <pre>{ "destination": <string>, }</pre> <p>destination – The IP address of the destination network host.</p>
Output	<p>Body:</p> <pre>{ "icmpReachable": true, "responseTime": 0, "h323Reachable": true, "sipReachable": true }</pre>
Applicable return codes	200 OK, 500 Server Error

system/network/traceroute

Description	This API performs network traceroute to the destination network host.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/system/network/traceroute
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>Body:</p> <pre>{ "destination": <string>, }</pre> <p>destination – The IP address of the destination network host.</p>
Output	<p>Body:</p> <pre>{ "success": true, "totalHops": 0, "hops": [{ "hopNumber": 0, "address": "string", "dnsName": "string", "responseTimes": [0] }] }</pre>
Applicable return codes	200 OK, 500 Server Error

system/reboot

Description	This API performs a reboot of the system.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/system/reboot
Input and Output Syntax	JSON
Access Level	Admin
Input	Body: { "action": "reboot", }
Output	None
Applicable return codes	200 OK, 500 Server Error

system/resetsettings

Description	This API performs a reset of configurations and settings of the system.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/system/resetsettings
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>Body:</p> <pre>{ "action": "resetsettings", "keepCertificates": <boolean>, "keepCdr": <boolean>, "keepDirectory": <boolean>, "keepLogs": <boolean> }</pre> <p><boolean> – True retains the setting. False resets the setting.</p>
Output	None
Applicable return codes	200 OK, 500 Server Error

system/sipservers

Description	This API provides the status and information of the SIP servers.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/system/sipservers
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	Body: <pre>{ "state": "ON", "address": "string" "version": "string" "model": "string" }</pre>
Applicable return codes	200 OK, 500 Server Error

system/status

Description	This API provides the status and information of important areas of the system.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/system/status
Input and Output Syntax	JSON
Access Level	Admin
Input	None

Output

Body:

```
{
  "langtag": "PRIMARY_NETWORK_HEADING",
  "name": "system.status.ipnetwork",
  "stateList": [
    "up"
  ]
},
{
  "langtag": "SIP_SERVER_HEADING",
  "name": "system.status.sipserver",
  "stateList": [
    "up"
  ]
},
{
  "langtag": "GATEKEEPER_HEADING",
  "name": "system.status.gatekeeper",
  "stateList": [
    "up"
  ]
},
{
  "langtag": "CALENDAR_SERVICE_HEADING",
  "name": "system.status.calendar",
  "stateList": [
    "up"
  ]
},
{
  "langtag": "MICROPHONES80",
  "name": "system.status.microphones",
  "stateList": [
    "up"
  ]
},
{
  "langtag": "REMOTE_CONTROL_HEADING",
```

```
    "name": "system.status.remotecontrol",
    "stateList": [
      "up"
    ]
  },
  {
    "langtag": "AUTO_ANSWER_P2P_HEADING",
    "name": "system.status.autoanswerp2p",
    "stateList": [
      "off"
    ]
  },
  {
    "langtag": "PROVISIONING_SERVICE_HEADING",
    "name": "system.status.provisioning",
    "stateList": [
      "off"
    ]
  },
  {
    "langtag": "SYSTEM_STATUS_GLOBALDIRECTORY_SERVER",
    "name": "system.status.globaldirectory",
    "stateList": [
      "off"
    ]
  },
  {
    "langtag": "MICROPHONES_HEADING",
    "name": "system.status.mr.audio",
    "stateList": [
      "all_up"
    ]
  },
  {
    "langtag": "CAMERAS_HEADING",
    "name": "system.status.mr.camera",
    "stateList": [
      "none_up"
    ]
  }
}
```

Applicable return codes	200 OK, 500 Server Error
--------------------------------	--------------------------

system/time

Description	This API provides the current time in milliseconds of the system, using UTC time zone and the time offset for the currently set time zone.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/system/time
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	Body: { "time": 1487369530000, "tzOffset": -300 }
Applicable return codes	200 OK, 500 Server Error

system/time

Description	This API performs a set of the current system time using Unix Epoch Time format (milliseconds).
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/system/time
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>Body:</p> <pre>{ "time": <long>, "tzOffset": <integer> }</pre> <p><code>time</code> – The current system time using Unix Epoch Time format in milliseconds.</p> <p><code>tzOffset</code> – An integer that represents the system time zone offset from GMT in minutes (+/-). This isn't required for a POST request.</p>
Output	None
Applicable return codes	200 OK

system/time/local

Description	This API provides the current time in a single ISO 8601 formatted string value.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/system/time/local
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	Body: { "time": "2018-08-10T15:00:59.000-0700" }
Applicable return codes	200 OK, 500 Server Error

SysTracker

mediastats

Description	This API provides the media status value(s) associated with all shared content.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/mediastats
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	Body: <pre>{ "vars": [{ "bitrate": 0, "clientID": "cast3", "duration": 256, "framerate": 0, "height": 1440, "sourceID": 2, "sourceType": "MIRACAST", "start": 1505416756873, "width": 1088 }] }</pre>
Applicable return codes	200 OK

Video

video/local/mute

Description	This API provides the status of whether the video is hidden.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/video/local/mute
Input and Output Syntax	JSON
Access Level	Admin
Input	None
Output	Body: { "result": true }
Applicable return codes	200 OK

video/local/mute

Description	This API performs a hide or unhide action on the local video.
Protocol, Method, and Path	Protocol: HTTPS Method: POST Path: /rest/video/local/mute
Input and Output Syntax	JSON
Access Level	Admin
Input	<p>Body:</p> <pre>{ "mute": <boolean> }</pre> <p><boolean> – True hides local video. False unhides local video.</p>
Output	<p>Body:</p> <pre>{ "success": true, "reason": "string" }</pre>
Applicable return codes	200 OK

video/remote/{confID}/mute

Description	This API provides the status of whether the video is hidden on a specified conference.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/video/remote/<confID>/mute
Input and Output Syntax	JSON
Access Level	Admin
Input	The following query parameters are accepted: <confID>/mute confID – The conference ID to retrieve video hidden state from.
Output	Body: { "result": true }
Applicable return codes	200 OK, 404 Unavailable

video/remote/{confID}/mutelock

Description	This API provides the status of whether the video hidden with a mute lock is applied to a specified conference.
Protocol, Method, and Path	Protocol: HTTPS Method: GET Path: /rest/video/remote/<confID>/mutelock
Input and Output Syntax	JSON
Access Level	Admin
Input	The following query parameters are accepted: <confID> confID – The conference ID to retrieve video hidden state from.
Output	Body: { "result": true }
Applicable return codes	200 OK, 404 Unavailable

Diagnostics

This section describes REST API error codes and logging information.

Error Codes

Error Codes and Descriptions

Error Code	Number Code	Description
Success	200 OK	API executed successfully
	201 Created	Entry was created
	204 No Content	Content is not ready, content has been removed, or updated
Failed	400 Bad Request	Request not recognized, could not be executed
	403 Forbidden	Forbidden, authentication denied, pin invalid
	404 Unavailable	Operation or source unavailable
	405 Not Allowed	Requested action is not supported
	415 Error	Payload invalid or missing one or more required fields
	500 Server Error	Unexpected error encountered
	501 Not Implemented	No support for performing requested action
507 Insufficient Storage	Insufficient storage on the server	

Logging

The following table provides examples of the type of logging available at each level.

Log Levels

Level	Description
0	Debug
1	Detailed events

2	Flow events
3	High-level flow events
4	Minor, recoverable events
5	Major, eventually fatal errors
6	Immediately fatal events