



Senstar Symphony API
8.x
Developer Guide



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Introduction

The Senstar Symphony API allows you to extend the functionality of the Senstar Symphony Server using curl.

The curl commands in this document exclude authentication and certificate parameters. An example of a command with these parameters is:

```
curl -k -u user:password https://127.0.0.1/api/cameras
```

The `-k` parameter allows curl to proceed even when the server cannot be verified and `-u user:password` tells curl to use the username and password for HTTP authentication.

Before using the Senstar Symphony API, confirm the authentication and certificate parameters for your organization and adjust the curl commands as required.

/cameras

Camera and devices API

GET /cameras

A **GET** request retrieves a list of all cameras.

```
curl https://127.0.0.1/api/cameras
```

Query string parameters

Parameter	Description
search	<p>This parameter allows you to search for cameras with specific text in the camera name.</p> <p>For example:</p> <pre>curl https://127.0.0.1/api/cameras?search=AXIS</pre>

Example of output:

```
{
  "currentPage": 0,
  "pageCount": 1,
  "items": [
    {
      "id": "620de7b5-d32e-45c8-876e-1135e3bc5c15",
      "status": 3,
      "deviceIndex": 162,
      "name": "211_10.234.2.191",
      "serverId": 5000,
      "serverName": "DEV-EAVIS",
      "type": "Fixed",
      "ipAddress": "10.234.2.191",
      "url": "http://10.234.2.191:80/",
      "port": 80,
      "brand": "Axis",
      "model": "AXIS 211",
      "template": "Default",
      "resolution": "640 x 480",
      "frameRate": 5.0,
      "groups": "",
      "groupIds": ["82bec52a-32aa-4997-8df4-c78d8a7c72c0"],
      "analyticLicenseObtained": "None",
      "parentName": "",
      "channelId": 0,
      "hasAlgorithm": false,
      "activeInputs": 0,
      "supportsDIO": true,
      "supportsCameraTamper": false,
      "supportsMotionDetection": true,
      "canEdit": true,
      "canDelete": true
    }
  ],
  "totalCount": 1
}
```

POST /cameras

A **POST** request adds a list of cameras.

```
curl https://127.0.0.1/api/cameras
-X POST
```

```
-H "Content-Type: application/json"
--data-binary "@.\AddCamerasBody.txt"
```

Example of AddCamerasBody.txt:

```
[
{
  "name": "New Camera Name",
  "username": "root",
  "password": "toor",
  "ipAddress": "10.234.11.27",
  "url": "http://10.234.11.27:80/",
  "brand": "Axis",
  "model": "AXIS Q3518",
  "template": "Default",
  "server": "5000",
  "group": "82bec52a-32aa-4997-8df4-c78d8a7c72c0",
  "license": "None",
  "detectionXml": "<DeviceCapabilities>
    <Status>OK</Status>
    <Manufacturer name='Axis'>
      <Model name='AXIS Q3518' type='Fixed Camera' >
        <Video>1</Video>
        <Network>1</Network>
        <devname>VideoRecvAxis</devname>
        <DefaultUsername>root</DefaultUsername>
        <Firmware_Version>8.25.5</Firmware_Version>
        <HTTP_Version>3</HTTP_Version>
        <FrameRate default='5'>All</FrameRate>
        <ImageFormat default='H264 Over HTTP'>MJPEG,H264 Unicast,H264 Multicast,H264 Over TCP,H264
Over HTTP,H264 Over HTTPS</ImageFormat>
        <Rotation>180</Rotation>
        <Metadata>1</Metadata>
        <Resolution
default='1920x1080'>3840x2160,3072x1728,2880x2160,2688x1512,2592x1944,2560x1440,
2304x1728,2048x1536,2016x1512,1920x1080,1600x1200,1400x1050,1280x960,1280x720,1024x768,
800x600,800x450,640x480,640x360,480x360,320x240,320x180,240x180,160x120</Resolution>
        <Audio>2</Audio>
        <AudioSupport>MPG4,H264,H265</AudioSupport>
        <AudioCodec>g711</AudioCodec>
        <AudioBitrate>64000</AudioBitrate><AudioSamplerate>48000</AudioSamplerate><AudioOutCodec>
g711</AudioOutCodec><XmlOption>DIO=1</XmlOption><DIOWidth>2</DIOWidth><DIOHeight>2</DIOHeight><DIOInputs>2</DIOInputs><DIOOutputs>
0</DIOOutputs><MultiStream>1</MultiStream><MotionDetection>1</MotionDetection>
        <DirectConnect>1</DirectConnect><ChangeFPS>1</ChangeFPS><AppList><application Name='fenceguard'
NiceName='AXIS Fence Guard' Vendor='Axis Communications' Version='2.1-0' ApplicationID='47775'
License='None' Status='Stopped' ConfigurationPage='local/fenceguard/config.html'
VendorHomePage='http://www.axis.com/'><application Name='loiteringguard' NiceName='AXIS
Loitering Guard' Vendor='Axis Communications' Version='2.1-0' ApplicationID='46775'
License='None' Status='Stopped' ConfigurationPage='local/loiteringguard/config.html'
VendorHomePage='http://www.axis.com/'><application Name='motionguard' NiceName='AXIS
Motion Guard' Vendor='Axis Communications' Version='2.1-0' ApplicationID='48170' License='None'
Status='Stopped' ConfigurationPage='local/motionguard/config.html'
VendorHomePage='http://www.axis.com/'><application Name='vmd' NiceName='AXIS Video Motion
Detection' Vendor='Axis Communications' Version='4.2-1' ApplicationID='143440' License='None'
Status='Stopped' ConfigurationPage='local/vmd/config.html' VendorHomePage='http://www.axis.com/'>
</AppList></Model></Manufacturer></DeviceCapabilities>",
  "cameraType": "Fixed",
},
]
```

Example output:

```
[
{
  "ipAddress": "10.234.11.27",
  "url": "http://10.234.11.27:80/",
  "port": 0,
  "id": "6987f9b5-c9d9-465c-a3ea-dabb0f61012d"
},
{
  "ipAddress": "211_10.234.2.191",
  "url": "http://10.234.2.191:80/",
  "port": 0,
  "id": "d82fa21d-b816-40c9-876d-af923f38a0dd"
}
]
```

PUT /cameras

A **PUT** request updates the properties for a camera.

```
curl https://127.0.0.1/api/cameras
-X PUT
-H "Content-Type: application/json"
--data-binary "@.\\UpdateCamerasBody.txt"
```

Example of UpdateCamerasBody.txt:

```
[
{
  "macAddress": "",
  "shortcode": "A code for the camera",
  "description": "A description of the camera",
  "url": "http://10.234.11.27:80/",
  "port": "80",
  "rtspPort": 0,
  "status": "OK",
  "dataPath": "c:\\data",
  "cameraType": "Fixed",
  "movable": true,
  "policy": null,
  "panoramicEnabled": false,
  "panoramicType": "",
  "panoramicPosition": 1,
  "ptzAddress": "",
  "ptzName": "",
  "ptzBaudRate": "",
  "forcePTZPriority": 25,
  "autoPTZPriority": 25,
  "ptzMaxLockedMinutes": "5",
  "ptzComPort": "",
  "defaultResolution": "1920 x 1080",
  "defaultFrameRate": "5",
  "rotation": 180,
  "alarmFrameRate": 0,
  "alarmFrameRateEnabled": false,
  "supportDirectConnect": false,
  "enableAudioIn": false,
  "enableAudioOut": false,
  "templateId": "44656661-756c-7420-5465-6d706c617465",
  "parentName": "",
  "parentInput": 0,
  "recompress": false,
  "licenseRequested": "OutdoorTracking",
  "licenseObtained": "OutdoorTracking",
  "isVmsLicensed": true,
  "maxStorageDays": null,
  "allResolutions": [
    "3840 x 2160",
    "3072 x 1728",
    "2880 x 2160",
    "2688 x 1512",
    "2592 x 1944",
    "2560 x 1440",
    "2304 x 1728",
    "2048 x 1536",
    "2016 x 1512",
    "1920 x 1080",
    "1600 x 1200",
    "1400 x 1050",
    "1280 x 960",
    "1280 x 720",
    "1024 x 768",
    "800 x 600",
    "800 x 450",
    "640 x 480",
    "640 x 360",
    "480 x 360",
    "320 x 240",
    "320 x 180",
    "240 x 180",
    "160 x 120"
  ],
  "allFormats": [
```

```

    "MJPG",
    "H264 Unicast",
    "H264 Multicast",
    "H264 Over TCP",
    "H264 Over HTTP",
    "H264 Over HTTPS"
  ],
  "allFrameRates": [
    "1",
    "2",
    "3",
    "4",
    "5",
    "6",
    "7",
    "8",
    "9",
    "10",
    "11",
    "12",
    "13",
    "14",
    "15",
    "16",
    "17",
    "18",
    "19",
    "20",
    "21",
    "22",
    "23",
    "24",
    "25",
    "26",
    "27",
    "28",
    "29",
    "30"
  ],
  "enableAuxiliary": false,
  "auxiliaryCommands": [],
  "streams": [
    {
      "streamNumber": 1,
      "resolution": "1920 x 1080",
      "frameRate": 5.0,
      "codec": "H264",
      "transport": "HTTP",
      "bitRate": 300,
      "keyFrameEvery": 10,
      "recordingEnabled": true,
      "detectMotion": false,
      "detectionByCamera": false,
      "alwaysRecording": true,
      "recordAudio": 32,
      "recordOverride": null,
      "preAlarmRecording": 15,
      "postAlarmRecording": 15,
      "rotation": 0,
      "scheduleId": -1,
      "analyticsStream": false
    }
  ],
  "hasAlgorithm": true,
  "isRelativePTZ": false,
  "typeName": "camera",
  "id": "b82e76d3-ff55-44f2-9a58-64001eb4a614",
  "deviceId": 204,
  "securityId": "b82e76d3-ff55-44f2-9a58-64001eb4a614",
  "groupIds": [
    "82bec52a-32aa-4997-8df4-c78d8a7c72c0",
    "cf1583cd-88fa-4cd1-8635-2258a98f8560"
  ],
  "groupNames": [
    "",
    "FirstGroup"
  ],
  "name": "Q3518_10.234.11.27",
  "username": "root",
  "password": "toor",

```



```

"serverId": 5000,
"serverName": "DEV-EAVIS",
"brand": "Axis",
"model": "AXIS Q3518",
"ipAddress": "10.234.11.27",
"detectionXml": "<DeviceCapabilities><Status>OK</Status><Manufacturer name='Axis'><Model name='AXIS Q3518'
type='Fixed Camera' ><Video>1</Video><Network>1</Network><devname>VideoRecvAxis</devname><DefaultUsername>root</
DefaultUsername><Firmware_Version>8.25.5</Firmware_Version><HTTP_Version>3</HTTP_Version><FrameRate
default='5'>All</FrameRate><ImageFormat default='H264 Over HTTP'>MJPG,H264 Unicast,H264 Multicast,H264 Over
TCP,H264 Over HTTP,H264 Over HTTPS</ImageFormat><Rotation>180</Rotation><Metadata>1</Metadata><Resolution
default='1920x1080'>3840x2160,3072x1728,2880x2160,2688x1512,2592x1944,2560x1440,2304x1728,2048x1536,2016x1512,1920x1080,1600x1200,
Resolution><Audio>2</Audio><AudioSupport>MPG4,H264,H265</AudioSupport><AudioCodec>g711</
AudioCodec><AudioBitrate>64000</AudioBitrate><AudioSamplerate>48000</AudioSamplerate><AudioOutCodec>g711</
AudioOutCodec><XmlOption>DIO=1</XmlOption><DIONumInputs>2</DIONumInputs><DIONumOutputs>0</
DIONumOutputs><MultiStream>1</MultiStream><MotionDetection>1</MotionDetection><DirectConnect>1</
DirectConnect><ChangeFPS>1</ChangeFPS><AppList><application Name='fenceguard' NiceName='AXIS Fence Guard'
Vendor='Axis Communications' Version='2.1-0' ApplicationID='47775' License='None' Status='Stopped'
ConfigurationPage='local/fenceguard/config.html' VendorHomePage='http://www.axis.com' /><application
Name='loiteringguard' NiceName='AXIS Loitering Guard' Vendor='Axis Communications' Version='2.1-0'
ApplicationID='46775' License='None' Status='Stopped' ConfigurationPage='local/loiteringguard/config.html'
VendorHomePage='http://www.axis.com' /><application Name='motionguard' NiceName='AXIS Motion Guard' Vendor='Axis
Communications' Version='2.1-0' ApplicationID='48170' License='None' Status='Stopped' ConfigurationPage='local/
motionguard/config.html' VendorHomePage='http://www.axis.com' /><application Name='vmd' NiceName='AXIS Video Motion
Detection' Vendor='Axis Communications' Version='4.2-1' ApplicationID='143440' License='None' Status='Stopped'
ConfigurationPage='local/vmd/config.html' VendorHomePage='http://www.axis.com' /></AppList></Model></
Manufacturer></DeviceCapabilities>",
"digitalInputs": [
  {
    "id": "100ffaa1-ae5-4549-a8f1-1f97ad5eff3a",
    "name": "FirstInput",
    "isDefaultName": false,
    "moduleNumber": 0,
    "number": 0,
    "inUse": true
  },
  {
    "id": "d4d22ebf-a016-4d66-a409-7b6f9afb669b",
    "name": "Input 2",
    "isDefaultName": true,
    "moduleNumber": 0,
    "number": 1,
    "inUse": false
  }
],
"digitalOutputs": [],
"canEdit": true,
"canDelete": true,
"supportsDIO": false
},
{
  "macAddress": "",
  "shortcode": "A code for the camera",
  "description": "A description of the camera",
  "url": "http://10.234.11.27:80/",
  "port": "80",
  "rtspPort": 0,
  "status": "OK",
  "dataPath": "c:\\data",
  "cameraType": "Fixed",
  "movable": true,
  "policy": null,
  "panoramicEnabled": false,
  "panoramicType": "",
  "panoramicPosition": 1,
  "ptzAddress": "",
  "ptzName": "",
  "ptzBaudRate": "",
  "forcePTZPriority": 25,
  "autoPTZPriority": 25,
  "ptzMaxLockedMinutes": "5",
  "ptzComPort": "",
  "defaultResolution": "1920 x 1080",
  "defaultFrameRate": "5",
  "rotation": 180,
  "alarmFrameRate": 0,
  "alarmFrameRateEnabled": false,
  "supportDirectConnect": false,
  "enableAudioIn": false,
  "enableAudioOut": false,

```

```
"templateId": "44656661-756c-7420-5465-6d706c617465",
"parentName": "",
"parentInput": 0,
"recompress": false,
"licenseRequested": "OutdoorTracking",
"licenseObtained": "OutdoorTracking",
"isVmsLicensed": true,
"maxStorageDays": null,
"allResolutions": [
  "3840 x 2160",
  "3072 x 1728",
  "2880 x 2160",
  "2688 x 1512",
  "2592 x 1944",
  "2560 x 1440",
  "2304 x 1728",
  "2048 x 1536",
  "2016 x 1512",
  "1920 x 1080",
  "1600 x 1200",
  "1400 x 1050",
  "1280 x 960",
  "1280 x 720",
  "1024 x 768",
  "800 x 600",
  "800 x 450",
  "640 x 480",
  "640 x 360",
  "480 x 360",
  "320 x 240",
  "320 x 180",
  "240 x 180",
  "160 x 120"
],
"allFormats": [
  "MJPG",
  "H264 Unicast",
  "H264 Multicast",
  "H264 Over TCP",
  "H264 Over HTTP",
  "H264 Over HTTPS"
],
"allFrameRates": [
  "1",
  "2",
  "3",
  "4",
  "5",
  "6",
  "7",
  "8",
  "9",
  "10",
  "11",
  "12",
  "13",
  "14",
  "15",
  "16",
  "17",
  "18",
  "19",
  "20",
  "21",
  "22",
  "23",
  "24",
  "25",
  "26",
  "27",
  "28",
  "29",
  "30"
],
"enableAuxiliary": false,
"auxiliaryCommands": [],
"streams": [
  {
    "streamNumber": 1,
    "resolution": "1920 x 1080",
```

```

    "frameRate": 5.0,
    "codec": "H264",
    "transport": "HTTP",
    "bitRate": 300,
    "keyFrameEvery": 10,
    "recordingEnabled": true,
    "detectMotion": false,
    "detectionByCamera": false,
    "alwaysRecording": true,
    "recordAudio": 32,
    "recordOverride": null,
    "preAlarmRecording": 15,
    "postAlarmRecording": 15,
    "rotation": 0,
    "scheduleId": -1,
    "analyticsStream": false
  }
],
"hasAlgorithm": true,
"isRelativePTZ": false,
"typeName": "camera",
"id": "0E193D07-D6AB-49FE-8A2A-009E1A1750C0",
"deviceId": 153,
"securityId": "0E193D07-D6AB-49FE-8A2A-009E1A1750C0",
"groupIds": [
  "82bec52a-32aa-4997-8df4-c78d8a7c72c0",
  "cf1583cd-88fa-4cd1-8635-2258a98f8560"
],
"groupNames": [
  "",
  "FirstGroup"
],
"name": "Q3518_10.234.11.27",
"username": "root",
"password": "toor",
"serverId": 5000,
"serverName": "DEV-EAVIS",
"brand": "Axis",
"model": "AXIS Q3518",
"ipAddress": "10.234.11.27",
"detectionXml": "<DeviceCapabilities><Status>OK</Status><Manufacturer name='Axis'><Model name='AXIS Q3518'
type='Fixed Camera' ><Video>1</Video><Network>1</Network><devname>VideoRecvAxis</devname><DefaultUsername>root</
DefaultUsername><Firmware_Version>8.25.5</Firmware_Version><HTTP_Version>3</HTTP_Version><FrameRate
default='5'>All</FrameRate><ImageFormat default='H264 Over HTTP'>MJPG,H264 Unicast,H264 Multicast,H264 Over
TCP,H264 Over HTTP,H264 Over HTTPS</ImageFormat><Rotation>180</Rotation><Metadata>1</Metadata><Resolution
default='1920x1080'>3840x2160,3072x1728,2880x2160,2688x1512,2592x1944,2560x1440,2304x1728,2048x1536,2016x1512,1920x1080,1600x1200,
Resolution><Audio>2</Audio><AudioSupport>MPG4,H264,H265</AudioSupport><AudioCodec>g711</
AudioCodec><AudioBitrate>64000</AudioBitrate><AudioSamplerate>48000</AudioSamplerate><AudioOutCodec>g711</
AudioOutCodec><XmlOption>DIO=1</XmlOption><DIONumInputs>2</DIONumInputs><DIONumOutputs>0</
DIONumOutputs><MultiStream>1</MultiStream><MotionDetection>1</MotionDetection><DirectConnect>1</
DirectConnect><ChangeFPS>1</ChangeFPS><ApplList><application Name='fenceguard' NiceName='AXIS Fence Guard'
Vendor='Axis Communications' Version='2.1-0' ApplicationID='47775' License='None' Status='Stopped'
ConfigurationPage='local/fenceguard/config.html' VendorHomePage='http://www.axis.com'><application
Name='loiteringguard' NiceName='AXIS Loitering Guard' Vendor='Axis Communications' Version='2.1-0'
ApplicationID='46775' License='None' Status='Stopped' ConfigurationPage='local/loiteringguard/config.html'
VendorHomePage='http://www.axis.com'><application Name='motionguard' NiceName='AXIS Motion Guard' Vendor='Axis
Communications' Version='2.1-0' ApplicationID='48170' License='None' Status='Stopped' ConfigurationPage='local/
motionguard/config.html' VendorHomePage='http://www.axis.com'><application Name='vmd' NiceName='AXIS Video Motion
Detection' Vendor='Axis Communications' Version='4.2-1' ApplicationID='143440' License='None' Status='Stopped'
ConfigurationPage='local/vmd/config.html' VendorHomePage='http://www.axis.com'></ApplList></Model></
Manufacturer></DeviceCapabilities>",
"digitalInputs": [
  {
    "id": "100ffaa1-ae5-4549-a8f1-1f97ad5eff3a",
    "name": "FirstInput",
    "isDefaultName": false,
    "moduleNumber": 0,
    "number": 0,
    "inUse": true
  },
  {
    "id": "d4d22ebf-a016-4d66-a409-7b6f9afb669b",
    "name": "Input 2",
    "isDefaultName": true,
    "moduleNumber": 0,
    "number": 1,
    "inUse": false
  }
],
"digitalOutputs": [],

```

```
"canEdit": true,  
"canDelete": true,  
"supportsDIO": false  
}  
]
```

GET /cameras/{camera_id}

A [GET](#) request retrieves the details for a specific camera (*camera_id*).

```
curl https://127.0.0.1/api/cameras/B82E76D3-FF55-44F2-9A58-64001EB4A614
```

Example output:

```
{  
  "macAddress": "",  
  "shortcode": "A code for the camera",  
  "description": "A description of the camera",  
  "url": "http://10.234.11.27:80/",  
  "port": "80",  
  "rtspPort": 0,  
  "status": "OK",  
  "dataPath": "c:\\data",  
  "cameraType": "Fixed",  
  "movable": true,  
  "policy": null,  
  "panoramicEnabled": false,  
  "panoramicType": "",  
  "panoramicPosition": 1,  
  "ptzAddress": "",  
  "ptzName": "",  
  "ptzBaudRate": "",  
  "forcePTZPriority": 25,  
  "autoPTZPriority": 25,  
  "ptzMaxLockedMinutes": "5",  
  "ptzComPort": "",  
  "defaultResolution": "1920 x 1080",  
  "defaultFrameRate": "5",  
  "rotation": 180,  
  "alarmFrameRate": 0,  
  "alarmFrameRateEnabled": false,  
  "supportDirectConnect": false,  
  "enableAudioIn": false,  
  "enableAudioOut": false,  
  "templateId": "44656661-756c-7420-5465-6d706c617465",  
  "parentName": "",  
  "parentInput": 0,  
  "recompress": false,  
  "licenseRequested": "OutdoorTracking",  
  "licenseObtained": "OutdoorTracking",  
  "isVmsLicensed": true,  
  "maxStorageDays": null,  
  "allResolutions": [  
    "3840 x 2160",  
    "3072 x 1728",  
    "2880 x 2160",  
    "2688 x 1512",  
    "2592 x 1944",  
    "2560 x 1440",  
    "2304 x 1728",  
    "2048 x 1536",  
    "2016 x 1512",  
    "1920 x 1080",  
    "1600 x 1200",  
    "1400 x 1050",  
    "1280 x 960",  
    "1280 x 720",  
    "1024 x 768",  
    "800 x 600",  
    "800 x 450",  
    "640 x 480",  
    "640 x 360",  
    "480 x 360",  
    "320 x 240",  
    "320 x 180",  
    "240 x 180",  
  ]  
}
```

```

"160 x 120"
],
"allFormats": [
  "MJPG",
  "H264 Unicast",
  "H264 Multicast",
  "H264 Over TCP",
  "H264 Over HTTP",
  "H264 Over HTTPS"
],
"allFrameRates": [
  "1",
  "2",
  "3",
  "4",
  "5",
  "6",
  "7",
  "8",
  "9",
  "10",
  "11",
  "12",
  "13",
  "14",
  "15",
  "16",
  "17",
  "18",
  "19",
  "20",
  "21",
  "22",
  "23",
  "24",
  "25",
  "26",
  "27",
  "28",
  "29",
  "30"
],
"enableAuxiliary": false,
"auxiliaryCommands": [],
"streams": [
  {
    "streamNumber": 1,
    "resolution": "1920 x 1080",
    "frameRate": 5.0,
    "codec": "H264",
    "transport": "HTTP",
    "bitRate": 300,
    "keyFrameEvery": 10,
    "recordingEnabled": true,
    "detectMotion": false,
    "detectionByCamera": false,
    "alwaysRecording": true,
    "recordAudio": 32,
    "recordOverride": null,
    "preAlarmRecording": 15,
    "postAlarmRecording": 15,
    "rotation": 0,
    "scheduleId": -1,
    "analyticsStream": false
  }
],
"hasAlgorithm": true,
"isRelativePTZ": false,
"typeName": "camera",
"id": "b82e76d3-ff55-44f2-9a58-64001eb4a614",
"deviceId": 204,
"securityId": "b82e76d3-ff55-44f2-9a58-64001eb4a614",
"groupIds": [
  "82bec52a-32aa-4997-8df4-c78d8a7c72c0",
  "cf1583cd-88fa-4cd1-8635-2258a98f8560"
],
"groupNames": [
  "",
  "FirstGroup"
],

```

```

"name": "Q3518_10.234.11.27",
"username": "root",
"password": "toor",
"serverId": 5000,
"serverName": "DEV-EAVIS",
"brand": "Axis",
"model": "AXIS Q3518",
"ipAddress": "10.234.11.27",
"detectionXml": "<DeviceCapabilities><Status>OK</Status><Manufacturer name='Axis'><Model name='AXIS Q3518'
type='Fixed Camera' ><Video>1</Video><Network>1</Network><devname>VideoRecvAxis</devname><DefaultUsername>root</
DefaultUsername><Firmware_Version>8.25.5</Firmware_Version><HTTP_Version>3</HTTP_Version><FrameRate
default='5'>All</FrameRate><ImageFormat default='H264 Over HTTP'>MJPEG,H264 Unicast,H264 Multicast,H264 Over
TCP,H264 Over HTTP,H264 Over HTTPS</ImageFormat><Rotation>180</Rotation><Metadata>1</Metadata><Resolution
default='1920x1080'>3840x2160,3072x1728,2880x2160,2688x1512,2592x1944,2560x1440,2304x1728,2048x1536,2016x1512,1920x1080,1600x1200,
Resolution><Audio>2</Audio><AudioSupport>MPG4,H264,H265</AudioSupport><AudioCodec>g711</
AudioCodec><AudioBitrate>64000</AudioBitrate><AudioSamplerate>48000</AudioSamplerate><AudioOutCodec>g711</
AudioOutCodec><XmlOption>DIO=1</XmlOption><DIONumInputs>2</DIONumInputs><DIONumOutputs>0</
DIONumOutputs><MultiStream>1</MultiStream><MotionDetection>1</MotionDetection><DirectConnect>1</
DirectConnect><ChangeFPS>1</ChangeFPS><ApplList><application Name='fenceguard' NiceName='AXIS Fence Guard'
Vendor='Axis Communications' Version='2.1-0' ApplicationID='47775' License='None' Status='Stopped'
ConfigurationPage='local/fenceguard/config.html' VendorHomePage='http://www.axis.com'></application
Name='loiteringguard' NiceName='AXIS Loitering Guard' Vendor='Axis Communications' Version='2.1-0'
ApplicationID='46775' License='None' Status='Stopped' ConfigurationPage='local/loiteringguard/config.html'
VendorHomePage='http://www.axis.com'></application Name='motionguard' NiceName='AXIS Motion Guard' Vendor='Axis
Communications' Version='2.1-0' ApplicationID='48170' License='None' Status='Stopped' ConfigurationPage='local/
motionguard/config.html' VendorHomePage='http://www.axis.com'></application Name='vmd' NiceName='AXIS Video Motion
Detection' Vendor='Axis Communications' Version='4.2-1' ApplicationID='143440' License='None' Status='Stopped'
ConfigurationPage='local/vmd/config.html' VendorHomePage='http://www.axis.com'></ApplList></Model></
Manufacturer></DeviceCapabilities>",
"digitalInputs": [
{
  "id": "100ffaa1-ae5-4549-a8f1-1f97ad5eff3a",
  "name": "FirstInput",
  "isDefaultName": false,
  "moduleNumber": 0,
  "number": 0,
  "inUse": true
},
{
  "id": "d4d22ebf-a016-4d66-a409-7b6f9afb669b",
  "name": "Input 2",
  "isDefaultName": true,
  "moduleNumber": 0,
  "number": 1,
  "inUse": false
}
],
"digitalOutputs": [],
"canEdit": true,
"canDelete": true,
"supportsDIO": false
}

```

PUT /cameras/{camera_id}/license

A **PUT** request updates the license for a specific camera (*camera_id*).

```

curl https://127.0.0.1/api/cameras/B82E76D3-FF55-44F2-9A58-64001EB4A614/license
-X PUT
-H "Content-Type: text/plain"
-d 'OutdoorTracking'

```

License values

None	IndoorTracking{ <i>language</i> }
OutdoorTracking	LeftAndRemovedItemDetection
LeftAndRemovedItemDetection{ <i>language</i> }	LeftAndRemovedItemTracking{ <i>language</i> }
PTZAutoTracking	LicensePlateAIR

License PlateAIR{ <i>language</i> }	LicensePlate{ <i>language</i> }
FacialRecognition	CrowdDetection
CrowdDetection{ <i>language</i> }	AllAnalytics{ <i>language</i> }
IndoorTracking	LicensePlate
OutdoorTracking{ <i>language</i> }	FacialRecognition{ <i>language</i> }
LeftAndRemovedItemTracking	AllAnalytics
PTZAutoTracking{ <i>language</i> }	

GET /cameras/{camera_id}/storage

A **GET** request returns the storage information for a specific camera (*camera_id*).

```
curl https://127.0.0.1/api/cameras/8EC29AB1-5681-4BD3-9C6E-055F57549C22/storage
```

Example output:

```
{
  "cameraSecurityId": "8ec29ab1-5681-4bd3-9c6e-055f57549c22",
  "serverId": 5000,
  "storagePaths": [],
  "maxVideoStorageDays": [],
  "serverStoragePaths": [
    {
      "path": "c:\\data",
      "forceRead": false
    }
  ],
  "serverLimitVideoStorageDays": false,
  "serverMaxVideoStorageDays": 7,
  "protectAlarmRecordings": false,
  "protectMaxDays": 30,
  "protectPreAlarmSeconds": 30,
  "protectPostAlarmMinutes": 30,
  "secondaryStoragePaths": [],
  "serverSecondaryStoragePaths": [],
  "serverArchiveAfterDays": -7
}
```

PUT /cameras/{camera_id}/storage

A **PUT** request updates the storage settings for a specific camera (*camera_id*).

```
curl https://127.0.0.1/api/cameras/B82E76D3-FF55-44F2-9A58-64001EB4A614/storage
-X PUT
-H "Content-Type: application/json"
--data-binary "@.\\SaveCameraStorageBody.txt"
```

Example of SaveCameraStorageBody.txt:

```
{
  "cameraSecurityId": "8ec29ab1-5681-4bd3-9c6e-055f57549c22",
  "serverId": 5000,
  "storagePaths": [],
  "maxVideoStorageDays": [10],
  "serverStoragePaths": [
    {
      "path": "c:\\someOtherExistingPath",
      "forceRead": false
    }
  ]
}
```

```

],
"serverLimitVideoStorageDays": false,
"serverMaxVideoStorageDays": 7,
"protectAlarmRecordings": false,
"protectMaxDays": 30,
"protectPreAlarmSeconds": 30,
"protectPostAlarmMinutes": 30,
"secondaryStoragePaths": [],
"serverSecondaryStoragePaths": [],
"serverArchiveAfterDays": -7
}

```

POST /cameras/delete

A **POST** request deletes a list of cameras.

```

curl https://127.0.0.1/api/cameras/delete
-X POST
-H "Content-Type: application/json"
--data-binary "@.DeleteCamerasBody.txt"

```

Example of DeleteCamerasBody.txt:

```

[
"740F1A98-E057-4BAB-A7BE-043BBF329388",
"1CD9F847-E24F-404C-99A3-3FA83C427F81"
]

```

POST /cameras/detect

A **POST** request returns detection information for a specific camera.

```

curl https://127.0.0.1/api/cameras/detect
-X POST
-H "Content-Type: application/json"
--data-binary "@.DetectCameraBody.txt"

```

Example of DetectCameraBody.txt:

```

{
"url": "http://10.234.11.27:80/",
"brand": "Axis",
"username": "root",
"password": "toor",
}

```

Example output:

```

{
"status": 3,
"brand": "Axis",
"model": "AXIS Q3518",
"ipAddress": "10.234.11.27",
"port": "80",
"url": "http://10.234.11.27:80/",
"defaultUsername": "root",
"defaultPassword": "",
"cameraType": "Fixed Camera",
"defaultResolution": "1920 x 1080",
"defaultImageFormat": "H264 Over HTTP",
"resolutions": [
"3840 x 2160",
"3072 x 1728",
"2880 x 2160",
"2688 x 1512",
"2592 x 1944",
"2560 x 1440",
"2304 x 1728",
"2048 x 1536",
"2016 x 1512",
"1920 x 1080",
]
}

```



```

"1600 x 1200",
"1400 x 1050",
"1280 x 960",
"1280 x 720",
"1024 x 768",
"800 x 600",
"800 x 450",
"640 x 480",
"640 x 360",
"480 x 360",
"320 x 240",
"320 x 180",
"240 x 180",
"160 x 120"
],
"frameRates": [
  "All"
],
"imageFormats": [
  "MJPG",
  "H264 Unicast",
  "H264 Multicast",
  "H264 Over TCP",
  "H264 Over HTTP",
  "H264 Over HTTPS"
],
"rotation": 180,
"defaultFrameRate": 5.0,
"isOnvif": false,
"isOnvifServer": false,
"timestamp": 637189457736077588,
"devName": "VideoRecvAxis",
"detectionXml": "<DeviceCapabilities><Status>OK</Status><Manufacturer name='Axis'><Model name='AXIS Q3518'
type='Fixed Camera' ><Video>1</Video><Network>1</Network><devname>VideoRecvAxis</devname><DefaultUsername>root</
DefaultUsername><Firmware_Version>8.25.5</Firmware_Version><HTTP_Version>3</HTTP_Version><FrameRate
default='5'>All</FrameRate><ImageFormat default='H264 Over HTTP'>MJPG,H264 Unicast,H264 Multicast,H264 Over
TCP,H264 Over HTTP,H264 Over HTTPS</ImageFormat><Rotation>180</Rotation><Metadata>1</Metadata><Resolution
default='1920x1080'>3840x2160,3072x1728,2880x2160,2688x1512,2592x1944,2560x1440,2304x1728,2048x1536,2016x1512,1920x1080,1600x1200,
Resolution><Audio>2</Audio><AudioSupport>MPG4,H264,H265</AudioSupport><AudioCodec>g711</
AudioCodec><AudioBitrate>64000</AudioBitrate><AudioSamplerate>48000</AudioSamplerate><AudioOutCodec>g711</
AudioOutCodec><XmlOption>DIO=1</XmlOption><DIONumInputs>2</DIONumInputs><DIONumOutputs>0</
DIONumOutputs><MultiStream>1</MultiStream><MotionDetection>1</MotionDetection><DirectConnect>1</
DirectConnect><ChangeFPS>1</ChangeFPS><ApplList><application Name='fenceguard' NiceName='AXIS Fence Guard'
Vendor='Axis Communications' Version='2.1-0' ApplicationID='47775' License='None' Status='Stopped'
ConfigurationPage='local/fenceguard/config.html' VendorHomePage='http://www.axis.com'><application
Name='loiteringguard' NiceName='AXIS Loitering Guard' Vendor='Axis Communications' Version='2.1-0'
ApplicationID='46775' License='None' Status='Stopped' ConfigurationPage='local/loiteringguard/config.html'
VendorHomePage='http://www.axis.com'><application Name='motionguard' NiceName='AXIS Motion Guard' Vendor='Axis
Communications' Version='2.1-0' ApplicationID='48170' License='None' Status='Stopped' ConfigurationPage='local/
motionguard/config.html' VendorHomePage='http://www.axis.com'><application Name='vmd' NiceName='AXIS Video Motion
Detection' Vendor='Axis Communications' Version='4.2-1' ApplicationID='143440' License='None' Status='Stopped'
ConfigurationPage='local/vmd/config.html' VendorHomePage='http://www.axis.com'></ApplList></Model></
Manufacturer></DeviceCapabilities>",
"ptzProtocol": null,
"ptzGenericProtocol": null,
"dioNumInputs": 2,
"dioNumOutputs": 0,
"digitalInputs": [
  {
    "id": "8f129428-7f44-4646-bdf4-84555ea34fd6",
    "name": null,
    "isDefaultName": true,
    "moduleNumber": 0,
    "number": 0,
    "inUse": false
  },
  {
    "id": "3b0de0c8-6d5d-48c9-9945-2627cb5f3c15",
    "name": null,
    "isDefaultName": true,
    "moduleNumber": 0,
    "number": 1,
    "inUse": false
  }
],
"digitalOutputs": [],
"network": 1,
"audio": 2,
"audioOutCodec": "g711",
"directConnect": true,

```

```
"canChangeFrameRate": true,  
"maxDevices": 0,  
"cameraTampering": false,  
"metadata": true,  
"auxiliaries": []  
}
```

POST /cameras/server/{server_id}

A **POST** request moves cameras to a Senstar Symphony Server (*server_id*).

```
curl https://127.0.0.1/api/cameras/server/5000  
-X POST  
-H "Content-Type: application/json"  
--data-binary "@.\MoveCamerasToServerBody.txt"
```

Example of MoveCamerasToServerBody:

```
[  
  "5D5BCF00-CB31-41AD-922B-1EFFCB9BCA1D",  
  "59B6AE4A-AE95-47A0-B0B3-3F539F6103BB"  
]
```

/devices

GET /devices

A [GET](#) request retrieves a list of all devices.

```
curl https://127.0.0.1/api/devices/
```

Example output:

```
[
  {
    "typeName": "Fixed Camera",
    "id": "20693d7d-7493-4e71-8d69-bd08f5abcd29",
    "deviceId": 23,
    "securityId": "20693d7d-7493-4e71-8d69-bd08f5abcd29",
    "groupIds": [
      "191bb8ab-099a-41ad-9e8e-bf4854a72d15"
    ],
    "groupNames": null,
    "name": "AXISM106_10.234.9.185",
    "username": "root",
    "password": null,
    "serverId": 5000,
    "serverName": null,
    "brand": "Axis",
    "model": "AXIS M1065-LW",
    "ipAddress": "10.234.9.185",
    "detectionXml": "<DeviceCapabilities><Status>OK</Status><Manufacturer name='Axis'><Model name='AXIS M1065-LW'
type='Fixed Camera' ><Video>1</Video><Network>1</Network><devname>VideoRecvAxis</devname><DefaultUsername>root</
DefaultUsername><Firmware_Version>8.40.2.2</Firmware_Version><HTTP_Version>3</HTTP_Version><FrameRate
default='5'>All</FrameRate><ImageFormat default='H264 Over HTTP'>MJPG,H264 Unicast,H264 Multicast,H264 Over
TCP,H264 Over HTTP,H264 Over HTTPS</ImageFormat><Rotation>0</Rotation><Metadata>1</Metadata><Resolution
default='1920x1080'>1920x1080,1280x960,1280x720,1024x768,1024x576,800x600,640x480,640x360,352x240,320x240</
Resolution><Audio>2</Audio><AudioSupport>MPG4,H264,H265</AudioSupport><AudioCodec>aac</
AudioCodec><AudioOutCodec>g711</AudioOutCodec><XmlOption>DIO=1</XmlOption><DIONumInputs>1</
DIONumInputs><DIONumOutputs>0</DIONumOutputs><MultiStream>1</MultiStream><MotionDetection>1</
MotionDetection><DirectConnect>1</DirectConnect><ChangeFPS>1</ChangeFPS><AppList><application Name='VMD3'
NiceName='AXIS Video Motion Detection' Vendor='Axis Communications' Version='3.1-1' ApplicationID='46396'
License='None' Status='Running' ConfigurationPage='local/VMD3/setup.html' VendorHomePage='http://
www.axis.com' /><application Name='vmd' NiceName='AXIS Video Motion Detection' Vendor='Axis Communications'
Version='4.2-5' ApplicationID='143440' License='None' Status='Stopped' ConfigurationPage='local/vmd/config.html'
VendorHomePage='http://www.axis.com' /></AppList></Model></Manufacturer></DeviceCapabilities>",
    "digitalInputs": [],
    "digitalOutputs": [],
    "canEdit": true,
    "canDelete": true,
    "supportsDIO": true
  },
  {
    "fromServerId": 5000,
    "failover": true,
    "module": "",
    "ioNumber": null,
    "status": 3,
    "detectionSucceeded": true,
    "registryEntry": 1,
    "linkedCamera": null,
    "enableAudioIn": false,
    "enableAudioOut": false,
    "typeName": "Hardware Device",
    "id": "63331172-dba6-4098-ae94-6fc14462ecf8",
    "deviceId": 30,
    "securityId": "63331172-dba6-4098-ae94-6fc14462ecf8",
    "groupIds": [
      "4382f1c6-47bb-44b0-ab34-1a4b1923c5be"
    ],
    "groupNames": null,
    "name": "Thin Client 1",
    "username": "admin",
    "password": "admin",
    "serverId": 0,
    "serverName": null,
  }
]
```

```

"brand": "Senstar",
"model": "",
"ipAddress": "10.234.100.65",
"detectionXml": "<DeviceCapabilities><Status>OK</Status></DeviceCapabilities>",
"digitalInputs": [],
"digitalOutputs": [],
"canEdit": true,
"canDelete": true,
"supportsDIO": false
}
]

```

PUT /devices

A **PUT** request updates a device.

```

curl https://127.0.0.1/api/devices
-X PUT
-H "Content-Type: application/json"
--data-binary "@.\UpdateDevicesBody.txt"

```

Example output:

```

[
{
  "typeName": "Fixed Camera",
  "id": "20693d7d-7493-4e71-8d69-bd08f5abcd29",
  "deviceId": 23,
  "securityId": "20693d7d-7493-4e71-8d69-bd08f5abcd29",
  "groupIds": [
    "191bb8ab-099a-41ad-9e8e-bf4854a72d15"
  ],
  "groupNames": null,
  "name": "AXISM106_10.234.9.185",
  "username": "root",
  "password": null,
  "serverId": 5000,
  "serverName": null,
  "brand": "Axis",
  "model": "AXIS M1065-LW",
  "ipAddress": "10.234.9.185",
  "detectionXml": "<DeviceCapabilities><Status>OK</Status><Manufacturer name='Axis'><Model name='AXIS M1065-LW'
type='Fixed Camera' ><Video>1</Video><Network>1</Network><devname>VideoRecvAxis</devname><DefaultUsername>root</
DefaultUsername><Firmware_Version>8.40.2.2</Firmware_Version><HTTP_Version>3</HTTP_Version><FrameRate
default='5'>All</FrameRate><ImageFormat default='H264 Over HTTP'>MJPG,H264 Unicast,H264 Multicast,H264
TCP,H264 Over HTTP,H264 Over HTTPS</ImageFormat><Rotation>0</Rotation><Metadata>1</Metadata><Resolution
default='1920x1080'>1920x1080,1280x960,1280x720,1024x768,1024x576,800x600,640x480,640x360,352x240,320x240</
Resolution><Audio>2</Audio><AudioSupport>MPG4,H264,H265</AudioSupport><AudioCodec>aac</
AudioCodec><AudioOutCodec>g711</AudioOutCodec><XmlOption>DIO=1</XmlOption><DIONumInputs>1</
DIONumInputs><DIONumOutputs>0</DIONumOutputs><MultiStream>1</MultiStream><MotionDetection>1</
MotionDetection><DirectConnect>1</DirectConnect><ChangeFPS>1</ChangeFPS><ApplList><application Name='VMD3'
NiceName='AXIS Video Motion Detection' Vendor='Axis Communications' Version='3.1-1' ApplicationID='46396'
License='None' Status='Running' ConfigurationPage='local/VMD3/setup.html' VendorHomePage='http://
www.axis.com/'><application Name='vmd' NiceName='AXIS Video Motion Detection' Vendor='Axis Communications'
Version='4.2-5' ApplicationID='143440' License='None' Status='Stopped' ConfigurationPage='local/vmd/config.html'
VendorHomePage='http://www.axis.com/'></ApplList></Model></Manufacturer></DeviceCapabilities>",
  "digitalInputs": [],
  "digitalOutputs": [],
  "canEdit": true,
  "canDelete": true,
  "supportsDIO": true
},
{
  "fromServerId": 5000,
  "failover": true,
  "module": "",
  "ioNumber": null,
  "status": 3,
  "detectionSucceeded": true,
  "registryEntry": 1,
  "linkedCamera": null,
  "enableAudioIn": false,
  "enableAudioOut": false,
  "typeName": "Hardware Device",
  "id": "63331172-dba6-4098-ae94-6fc14462ecf8",
  "deviceId": 30,

```

```

"securityId": "63331172-dba6-4098-ae94-6fc14462ecf8",
"groupIds": [
  "4382f1c6-47bb-44b0-ab34-1a4b1923c5be"
],
"groupNames": null,
"name": "Thin Client 1",
"username": "admin",
"password": "admin",
"serverId": 0,
"serverName": null,
"brand": "Senstar",
"model": "",
"ipAddress": "10.234.100.65",
"detectionXml": "<DeviceCapabilities><Status>OK</Status></DeviceCapabilities>",
"digitalInputs": [],
"digitalOutputs": [],
"canEdit": true,
"canDelete": true,
"supportsDIO": false
}
]

```

POST /devices/connect

A **POST** request retrieves details of a specific hardware device.

```

curl https://127.0.0.1/api/devices/connect
-X POST
-H "Content-Type: application/json"
--data-binary "@.\ConnectToDeviceBody.txt"

```

Example of ConnectToDeviceBody.txt:

```

{
  "name": "SomeHardwareDevice",
  "username": "root",
  "password": "toor",
  "brand": "Axis",
  "ipAddress": "10.234.2.195",
}

```

Example output:

```

[
  {
    "fromServerId": 0,
    "failover": true,
    "module": "",
    "ioNumber": "1",
    "status": 3,
    "detectionSucceeded": true,
    "registryEntry": 1,
    "linkedCamera": null,
    "enableAudioIn": false,
    "enableAudioOut": false,
    "typeName": "Hardware Device",
    "id": "a069d682-5237-4ccd-a5a7-56ae697e7131",
    "deviceId": 0,
    "securityId": "a069d682-5237-4ccd-a5a7-56ae697e7131",
    "groupIds": [
      "82bec52a-32aa-4997-8df4-c78d8a7c72c0"
    ],
    "groupNames": null,
    "name": "SomeHardwareDevice",
    "username": "root",
    "password": "toor",
    "serverId": 5000,
    "serverName": null,
    "brand": "AXIS",
    "model": "AXIS P8221",
    "ipAddress": "10.234.2.195",
    "detectionXml": "<DeviceCapabilities><Status>OK</Status><Manufacturer name='Axis'><Model name='AXIS P8221' type='Hardware Device'><AudioFormat><Encoding>g711</Encoding><SampleRate>8000</SampleRate><BitRate>64000</BitRate></AudioFormat><DIONumInputs>4</DIONumInputs><DIONumOutputs>4</DIONumOutputs></Model></Manufacturer></DeviceCapabilities>",
  }
]

```

```

"digitalInputs": [
  {
    "id": "6606122b-f52a-4ec6-9a68-1994ccec0b33",
    "name": "Input 1",
    "isDefaultName": true,
    "moduleNumber": 1,
    "number": 0,
    "inUse": false
  },
  {
    "id": "5f19ced3-9a26-4293-b360-f1ecbe80a317",
    "name": "Input 2",
    "isDefaultName": true,
    "moduleNumber": 1,
    "number": 1,
    "inUse": false
  },
  {
    "id": "c4b30d53-329d-4e2c-b508-227b6566ca7a",
    "name": "Input 3",
    "isDefaultName": true,
    "moduleNumber": 1,
    "number": 2,
    "inUse": false
  },
  {
    "id": "85836cb2-666f-4fbd-aaaf-cec8bdc911b1",
    "name": "Input 4",
    "isDefaultName": true,
    "moduleNumber": 1,
    "number": 3,
    "inUse": false
  }
],
"digitalOutputs": [
  {
    "activateLabel": "",
    "deactivateLabel": "",
    "deactivateDelay": 0,
    "overlayCameraId": "00000000-0000-0000-0000-000000000000",
    "id": "295684fc-d3a2-4ad5-b9aa-ea742e478ba5",
    "name": "Output 1",
    "isDefaultName": true,
    "moduleNumber": 1,
    "number": 0,
    "inUse": false
  },
  {
    "activateLabel": "",
    "deactivateLabel": "",
    "deactivateDelay": 0,
    "overlayCameraId": "00000000-0000-0000-0000-000000000000",
    "id": "d625c516-9b49-49d1-9f0a-b42b317bb312",
    "name": "Output 2",
    "isDefaultName": true,
    "moduleNumber": 1,
    "number": 1,
    "inUse": false
  },
  {
    "activateLabel": "",
    "deactivateLabel": "",
    "deactivateDelay": 0,
    "overlayCameraId": "00000000-0000-0000-0000-000000000000",
    "id": "98c768d3-0126-4a72-bef2-70710ef2286d",
    "name": "Output 3",
    "isDefaultName": true,
    "moduleNumber": 1,
    "number": 2,
    "inUse": false
  },
  {
    "activateLabel": "",
    "deactivateLabel": "",
    "deactivateDelay": 0,
    "overlayCameraId": "00000000-0000-0000-0000-000000000000",
    "id": "e8e9fd48-53cd-451e-a886-e7be4b0a34a8",
    "name": "Output 4",
    "isDefaultName": true,
    "moduleNumber": 1,
  }
]

```

```
    "number": 3,  
    "inUse": false  
  }  
],  
"canEdit": true,  
"canDelete": true,  
"supportsDIO": true  
}  
]
```

POST /devices/delete

A **POST** request deletes a hardware device.

```
curl https://127.0.0.1/api/devices/delete  
-X POST  
-H "Content-Type: application/json"  
--data-binary "@\DeleteDevicesBody.txt"
```

Example of DeleteDevicesBody.txt:

```
{  
  [  
    "25077015-9ce1-40e7-b436-10cf3ab9c0ec"  
  ]  
}
```

/events

GET /events

A **GET** request retrieves the event log data for the last 24 hours.

```
curl https://127.0.0.1/api/events
```

GET /events/{start_yyyyMMddHHmmss}/{end_yyyyMMddHHmmss}

A **GET** request retrieves the event log data from *start_yyyyMMddHHmmss* to *end_yyyyMMddHHmmss*.

```
curl https://127.0.0.1/api/events/20200227140000/20200227150000
```

Example output:

```
[
  {
    "timestamp": "2020-02-27T14:21:20.427Z",
    "name": "SessionCreated",
    "eventID": 680549,
    "eventGroupID": "88f1b4f4-3fd6-424f-b77d-8634b20a4627",
    "key": "authenticatingServerId",
    "value": "5001"
  },
  {
    "timestamp": "2020-02-27T14:21:20.427Z",
    "name": "SessionCreated",
    "eventID": 680549,
    "eventGroupID": "88f1b4f4-3fd6-424f-b77d-8634b20a4627",
    "key": "clientAddress",
    "value": "127.0.0.1"
  },
  {
    "timestamp": "2020-02-27T14:21:20.427Z",
    "name": "SessionCreated",
    "eventID": 680549,
    "eventGroupID": "88f1b4f4-3fd6-424f-b77d-8634b20a4627",
    "key": "hostName",
    "value": "127.0.0.1"
  },
  {
    "timestamp": "2020-02-27T14:21:20.427Z",
    "name": "SessionCreated",
    "eventID": 680549,
    "eventGroupID": "88f1b4f4-3fd6-424f-b77d-8634b20a4627",
    "key": "sessionId",
    "value": "88f1b4f4-3fd6-424f-b77d-8634b20a4627"
  },
  {
    "timestamp": "2020-02-27T14:21:20.427Z",
    "name": "SessionCreated",
    "eventID": 680549,
    "eventGroupID": "88f1b4f4-3fd6-424f-b77d-8634b20a4627",
    "key": "username",
    "value": "admin"
  }
]
```


/rules

GET /rules

A **GET** request retrieves the details of the rules.

```
curl https://127.0.0.1/api/rules
```

Example output:

```
{
  "currentPage":0,
  "pageCount":1,
  "items":[
    {
      "id":6,
      "securityId":"52756c65-0000-0000-0000-000000000006",
      "name":"Camera Tamper",
      "eventName":"",
      "scheduleName":"Camera Tamper Schedule",
      "actionName":"Camera Tamper Action",
      "isSystemRule":true,
      "systemRuleId":-2,
      "order":10,
      "enabled":false,
      "canView":true,
      "canChange":true
    }
  ],
  "totalCount":1
}
```

POST /rules

A **POST** request creates a new rule.

```
curl https://127.0.0.1/api/rules
-X POST
-H "Content-Type: application/json"
-d @CreateRule.json
```

Example of CreateRule.json:

```
{
  "id":28,
  "name":"Sample Rule",
  "enabled":true,
  "order":10,
  "actions":{
    "id":1,
  },
  "schedule":{
    "id":2,
  },
  "priority":5,
  "severity":3,
  "eventsMustOccur":"InSequence",
  "eventsTimePeriod":30,
  "eventList":[
    {
      "id":12,
      "orderNum":0
    }
  ]
}
```

DELETE /rules

A **DELETE** request deletes rules (*rule_id*, *rule_id*, ...).

```
curl https://127.0.0.1/api/rules/
-X DELETE
-H "Content-Type: application/json"
-d "[{rule_id}, {rule_id}, ...]"
```

GET /rules/{rule_id}

A **GET** request retrieves the details for a specific rule (*rule_id*).

```
curl https://127.0.0.1/api/rules/52756c65-0000-0000-0000-000000000028
```

Example output:

```
{
  "id":28,
  "name":"Sample Rule",
  "eventName":"Anything Moving",
  "scheduleName":"Lost Camera Connection",
  "actionName":"Lost Camera Connection Action",
  "order":10,
  "enabled":false,
  "isSystemRule":false,
  "systemRuleId":0,
  "priority":5,
  "severity":3,
  "securityId":"52756c65-0000-0000-0000-000000000028",
  "canView":true,
  "canChange":true,
  "eventList":[
    {
      "id":12,
      "name":"Anything Moving",
      "enabled":true,
      "orderNum":0,
      "cameras":[],
      "hardwareDevices":[
        {
          "type":1,
          "inputModule":null,
          "inputType":null,
          "supportsCameraTamper":false,
          "supportsMotionCapture":true,
          "supportsDIO":true,
          "orderNum":0,
          "securityId":"fb33896c-05d7-4852-8a27-1130bb2e6080",
          "name":"Chris' Desk",
        }
      ],
      "hardwareSystemDevices":[],
      "accessDevices":[],
      "inUseByRules":[
        "52756c65-0000-0000-0000-000000000013",
        "52756c65-0000-0000-0000-000000000028",
        "52756c65-0000-0000-0000-000000000029"
      ]
    }
  ],
  "eventsTimePeriod":30,
  "eventsMustOccur":0,
  "actions":{
    "name":"Lost Camera Connection Action",
    "alarm":{
      "enabled":true,
      "raiseAlarm":true,
      "viewDevices":[],
      "cameraId":null,
      "mapId":null
    }
  }
  "alarmLog":{
```

```

"enabled":false,
"items":[
  {
    "enabled":true,
    "type":0,
    "cameraId":null,
    "mapId":null
  },
  {
    "enabled":false,
    "type":0,
    "cameraId":null,
    "mapId":null
  },
  {
    "enabled":false,
    "type":0,
    "cameraId":null,
    "mapId":null
  },
  {
    "enabled":false,
    "type":0,
    "cameraId":null,
    "mapId":null
  }
],
"alarmMapId":null,
"alarmMapEnabled":false
},
"changePermission":{
  "enabled":false,
  "resetWhenAcknowledged":true,
  "minutes":30,
  "usersAndGroups":[],
  "rightsChanged":[]
},
"record":{
  "enabled":true,
  "devices":[]
},
"relay":{
  "enabled":false,
  "deviceId":0,
  "relayAction":0,
  "module":null,
  "restoreStateAction":0,
  "restoreAfterDuration":30
},
"commands":{
  "enabled":false,
  "commands":[]
},
"ftp":{
  "enabled":false,
  "server":null,
  "port":21,
  "username":null,
  "password":null,
  "remotePath":null,
  "renameEnabled":false,
  "renamePattern":null,
  "renameUseUtc":false,
  "transferMultiplePictures":false,
  "preAlarmPictures":6,
  "postAlarmPictures":6,
  "pictureInterval":200,
  "showBoxes":true,
  "showText":true,
  "showTime":true,
  "showDate":true,
  "showPath":true,
  "resizePercent":-1,
  "cameras":[]
},
"email":{
  "emailAddresses":[],
  "emailIfUnacknowledged":false,
  "acknowledgeMinutes":0.0,
  "enabled":false
}

```

```

    },
    "tcp":{
      "enabled":false,
      "ipAddress":null,
      "port":80,
      "text":null
    },
    "runProgram":{
      "enabled":false,
      "workingDirectory":null,
      "filename":null,
      "arguments":null
    },
    "sounds":null,
    "zoom":{
      "enabled":false,
      "autoTracking":false,
      "forcePtzLocation":false,
      "cameraId":null,
      "duration":30,
      "pan":0.0,
      "tilt":0.0,
      "zoom":0.0
    },
    "instructions":{
      "text":null,
      "enabled":false,
      "isFile":false,
      "fileId":0,
      "fileName":"","",
      "fileData":null
    },
    "rule":{
      "enabled":false,
      "ruleAction":0,
      "ruleIds":[]
    },
    "opc":{
      "enabled":false,
      "alarmType":1,
      "duration":1000
    },
    "sms":{
      "enabled":false,
      "comPort":"COM1",
      "baudRate":9600,
      "phoneNumbers":[],
      "message":null
    },
    "id":1,
    "systemRuleId":-1,
    "inUseByRules":[
      "52756c65-0000-0000-0000-000000000003",
      "52756c65-0000-0000-0000-000000000028",
      "52756c65-0000-0000-0000-000000000029"
    ]
  },
  "schedule":{
    "id":2,
    "systemRuleId":-1,
    "name":"Lost Camera Connection",
    "days":[
      "1440a",
      "1440a",
      "1440a",
      "1440a",
      "1440a",
      "1440a",
      "1440a",
      "1440a"
    ],
    "exceptions":[],
    "lockedDown":false
  }
}

```

PUT /rules/{rule_id}

A **PUT** request modifies a specific rule (*rule_id*).

```
curl https://127.0.0.1/api/rules/52756c65-0000-0000-0000-000000000028
-X PUT
-H "Content-Type: application/json"
-d @CreateRule.json
```

Example of CreateRule.json:

```
{
  "id":28,
  "name":"Sample Rule",           // The name of the rule
  "enabled":true,                 // True to make the rule active, False to have it disabled
  "order":10,                     // Ignored; set to 10
  "actions":{
    "id":1,                       // The ID of the action to perform when the rule is triggered
  },
  "schedule":{
    "id":2,                       // The ID of the schedule when this rule is active
  },
  "priority":5,                   // Ignored; set to 5
  "severity":3,                   // The severity of the rule, from 1 to 5, where 1 is the most severe
  "eventsMustOccur":"InSequence", // If multiple rule events are specified, do they have to occur InSequence or
  WithinTimePeriod?
  "eventsTimePeriod":30,          // The amount of time (in seconds) that all events must occur for the rule to
  be triggered
  "eventList":[                   // An array of events used to trigger the rule
    {
      "id":12,                     // The ID of the event which triggers the rule
      "orderNum":0                 // An integer to specify the order of this event in the rule
    }
  ]
}
```

POST /rules/byguids

A **POST** request retrieves the details for a set of rules.

```
curl https://127.0.0.1/api/rules/byguids
-X POST
-H "Content-Type: application/json"
-d "[\"52756c65-0000-0000-0000-000000000028\", \"52756c65-0000-0000-0000-000000000029\"]"
```

Sample output:

```
[
  {
    "id":28,
    "name":"Sample Rule",
    "eventName":"Anything Moving",
    "scheduleName":"Lost Camera Connection",
    "actionName":"Lost Camera Connection Action",
    "order":10,
    "enabled":false,
    "isSystemRule":false,
    "systemRuleId":0,
    "priority":5,
    "severity":3,
    "securityId":"52756c65-0000-0000-0000-000000000028",
    "canView":true,
    "canChange":true,
    "eventList":[
      {
        "id":12,
        "name":"Anything Moving",
        "enabled":true,
        "orderNum":0,
        "cameras":[],
        "hardwareDevices":[
          {
            "type":1,

```

```

        "inputModule":null,
        "inputType":null,
        "supportsCameraTamper":false,
        "supportsMotionCapture":true,
        "supportsDIO":true,
        "orderNum":0,
        "securityId":"fb33896c-05d7-4852-8a27-1130bb2e6080",
        "name":"Chris' Desk",
    }
],
"hardwareSystemDevices":[],
"accessDevices":[],
"inUseByRules":[
    "52756c65-0000-0000-0000-000000000013",
    "52756c65-0000-0000-0000-000000000028",
    "52756c65-0000-0000-0000-000000000029"
]
}
],
"eventsTimePeriod":30,
"eventsMustOccur":0,
"actions":{
    "name":"Lost Camera Connection Action",
    "alarm":{
        "enabled":true,
        "raiseAlarm":true,
        "viewDevices":[],
        "cameraId":null,
        "mapId":null
    }
    "alarmLog":{
        "enabled":false,
        "items":[
            {
                "enabled":true,
                "type":0,
                "cameraId":null,
                "mapId":null
            },
            {
                "enabled":false,
                "type":0,
                "cameraId":null,
                "mapId":null
            },
            {
                "enabled":false,
                "type":0,
                "cameraId":null,
                "mapId":null
            },
            {
                "enabled":false,
                "type":0,
                "cameraId":null,
                "mapId":null
            }
        ]
    },
    "alarmMapId":null,
    "alarmMapEnabled":false
},
"changePermission":{
    "enabled":false,
    "resetWhenAcknowledged":true,
    "minutes":30,
    "usersAndGroups":[],
    "rightsChanged":[]
},
"record":{
    "enabled":true,
    "devices":[]
},
"relay":{
    "enabled":false,
    "deviceId":0,
    "relayAction":0,
    "module":null,
    "restoreStateAction":0,
    "restoreAfterDuration":30
},

```

```

"commands":{
  "enabled":false,
  "commands":[]
},
"ftp":{
  "enabled":false,
  "server":null,
  "port":21,
  "username":null,
  "password":null,
  "remotePath":null,
  "renameEnabled":false,
  "renamePattern":null,
  "renameUseUtc":false,
  "transferMultiplePictures":false,
  "preAlarmPictures":6,
  "postAlarmPictures":6,
  "pictureInterval":200,
  "showBoxes":true,
  "showText":true,
  "showTime":true,
  "showDate":true,
  "showPath":true,
  "resizePercent":-1,
  "cameras":[]
},
"email":{
  "emailAddresses":[],
  "emailIfUnacknowledged":false,
  "acknowledgeMinutes":0.0,
  "enabled":false
},
"tcp":{
  "enabled":false,
  "ipAddress":null,
  "port":80,
  "text":null
},
"runProgram":{
  "enabled":false,
  "workingDirectory":null,
  "filename":null,
  "arguments":null
},
"sounds":null,
"zoom":{
  "enabled":false,
  "autoTracking":false,
  "forcePtzLocation":false,
  "cameraId":null,
  "duration":30,
  "pan":0.0,
  "tilt":0.0,
  "zoom":0.0
},
"instructions":{
  "text":null,
  "enabled":false,
  "isFile":false,
  "fileId":0,
  "fileName": "",
  "fileData":null
},
"rule":{
  "enabled":false,
  "ruleAction":0,
  "ruleIds":[]
},
"opc":{
  "enabled":false,
  "alarmType":1,
  "duration":1000
},
"sms":{
  "enabled":false,
  "comPort": "COM1",
  "baudRate":9600,
  "phoneNumbers":[],
  "message":null
},

```

```

    "id":1,
    "systemRuleId":-1,
    "inUseByRules":[
      "52756c65-0000-0000-0000-000000000003",
      "52756c65-0000-0000-0000-000000000028",
      "52756c65-0000-0000-0000-000000000029"
    ]
  },
  "schedule":{
    "id":2,
    "systemRuleId":-1,
    "name":"Lost Camera Connection",
    "days":[
      "1440a",
      "1440a",
      "1440a",
      "1440a",
      "1440a",
      "1440a",
      "1440a"
    ],
    "exceptions":[],
    "lockedDown":false
  }
},
{
  "id":29,
  ...
}
]

```

POST /rules/bydevice

A **POST** request retrieves the details of the rules that apply to a set of cameras.

```

curl https://127.0.0.1/api/rules/bydevice
-X POST
-H "Content-Type: application/json"
-d "[\"fb33896c-05d7-4852-8a27-1130bb2e6080\"]"

```

Sample output:

```

[
  {
    "deviceSecurityId":"fb33896c-05d7-4852-8a27-1130bb2e6080",
    "rules":[
      {
        "id":13,
        "securityId":"52756c65-0000-0000-0000-000000000013",
        "name":"Everything",
        "eventName":"Anything Moving",
        "scheduleName":"Camera Tamper Schedule",
        "actionName":"Camera Tamper Action",
        "isSystemRule":false,
        "systemRuleId":0,
        "order":10,
        "enabled":true,
        "canView":true,
        "canChange":true
      },
      {
        "id":28,
        "securityId":"52756c65-0000-0000-0000-000000000028",
        "name":"Sample Rule",
        "eventName":"Anything Moving",
        "scheduleName":"Lost Camera Connection",
        "actionName":"Lost Camera Connection Action",
        "isSystemRule":false,
        "systemRuleId":0,
        "order":10,
        "enabled":false,
        "canView":true,
        "canChange":true
      }
    ]
  }
]

```


]

POST /rules/enable

A **POST** request enables rules (*rule_id_1*, *rule_id_2*, ...).

```
curl https://127.0.0.1/api/rules/enable
-X POST
-H "Content-Type: application/json"
-d "[\"rule_id_1\", \"rule_id_2\"]"
```

POST /rules/disable

A **POST** request disables rules (*rule_id_1*, *rule_id_2*, ...).

```
curl https://127.0.0.1/api/rules/disable
-X POST
-H "Content-Type: application/json"
-d "[\"rule_id_1\", \"rule_id_2\"]"
```

GET /rules/actionsets

A **GET** request retrieves the details of all the action sets.

```
curl https://127.0.0.1/api/rules/actionsets
```

Example output:

```
{
  "currentPage":0,
  "pageCount":1,
  "items":[
    {
      "name":"Camera Tamper Action",
      "alarm":{
        "enabled":true,
        "raiseAlarm":true,
        "viewDevices":[],
        "cameraId":null,
        "mapId":null
      },
      "alarmLog":{
        "enabled":false,
        "items":[
          {
            "enabled":true,
            "type":0,
            "cameraId":null,
            "mapId":null
          },
          {
            "enabled":false,
            "type":0,
            "cameraId":null,
            "mapId":null
          },
          {
            "enabled":false,
            "type":0,
            "cameraId":null,
            "mapId":null
          },
          {
            "enabled":false,
            "type":0,
            "cameraId":null,
            "mapId":null
          }
        ]
      },
      "alarmMapId":null,
    }
  ]
}
```

```

    "alarmMapEnabled":false
  },
  "changePermission":{
    "enabled":false,
    "resetWhenAcknowledged":true,
    "minutes":30,
    "usersAndGroups":[],
    "rightsChanged":[]
  },
  "record":{
    "enabled":true,
    "devices":[]
  },
  "relay":{
    "enabled":false,
    "deviceId":0,
    "relayAction":0,
    "module":null,
    "restoreStateAction":0,
    "restoreAfterDuration":30
  },
  "commands":{
    "enabled":false,
    "commands":[]
  },
  "ftp":{
    "enabled":false,
    "server":null,
    "port":21,
    "username":null,
    "password":null,
    "remotePath":null,
    "renameEnabled":false,
    "renamePattern":null,
    "renameUseUtc":false,
    "transferMultiplePictures":false,
    "preAlarmPictures":6,
    "postAlarmPictures":6,
    "pictureInterval":200,
    "showBoxes":true,
    "showText":true,
    "showTime":true,
    "showDate":true,
    "showPath":true,
    "resizePercent":-1,
    "cameras":[]
  },
  "email":{
    "emailAddresses":[],
    "emailIfUnacknowledged":false,
    "acknowledgeMinutes":0.0,
    "enabled":false
  },
  "tcp":{
    "enabled":false,
    "ipAddress":null,
    "port":80,
    "text":null
  },
  "runProgram":{
    "enabled":false,
    "workingDirectory":null,
    "filename":null,
    "arguments":null
  },
  "sounds":null,
  "zoom":{
    "enabled":false,
    "autoTracking":false,
    "forcePtzLocation":false,
    "cameraId":null,
    "duration":30,
    "pan":0.0,
    "tilt":0.0,
    "zoom":0.0
  },
  "instructions":{
    "text":null,
    "enabled":false,
    "isFile":false,

```

```

    "fileId":0,
    "fileName":"",
    "fileData":null
  },
  "rule":{
    "enabled":false,
    "ruleAction":0,
    "ruleIds":[]
  },
  "opc":{
    "enabled":false,
    "alarmType":1,
    "duration":1000
  },
  "sms":{
    "enabled":false,
    "comPort":"COM1",
    "baudRate":9600,
    "phoneNumbers":[],
    "message":null
  },
  "id":4,
  "systemRuleId":-2,
  "inUseByRules":[
    "52756c65-0000-0000-0000-000000000006",
    "52756c65-0000-0000-0000-000000000013",
    "52756c65-0000-0000-0000-000000000023"
  ]
}
],
"totalCount":1
}

```

POST /rules/actionsets

A **POST** request creates a new action set.

```

curl https://127.0.0.1/api/rules/actionsets
-X POST
-H "Content-Type: application/json"
-d @CreateAction.json

```

Example of CreateAction.json:

```

{
  "name": "Sample Action",
  "alarm":{
    "enabled":true,
    "raiseAlarm":true,
    "viewDevices":[],
    "cameraId":null,
    "mapId":null
  },
  "alarmLog":{
    "enabled":false,
    "items":[
      {
        "enabled":true,
        "type":0,
        "cameraId":null,
        "mapId":null
      },
      {
        "enabled":false,
        "type":0,
        "cameraId":null,
        "mapId":null
      },
      {
        "enabled":false,
        "type":0,
        "cameraId":null,
        "mapId":null
      },
      {
        "enabled":false,

```

```

    "type":0,
    "cameraId":null,
    "mapId":null
  }
],
"alarmMapId":null,
"alarmMapEnabled":false
},
"changePermission":{
  "enabled":false,
  "resetWhenAcknowledged":true,
  "minutes":30,
  "usersAndGroups":[],
  "rightsChanged":[]
},
"record":{
  "enabled":true,
  "devices":[]
},
"relay":{
  "enabled":false,
  "deviceId":0,
  "relayAction":0,
  "module":null,
  "restoreStateAction":0,
  "restoreAfterDuration":30
},
"commands":{
  "enabled":false,
  "commands":[]
},
"ftp":{
  "enabled":false,
  "server":null,
  "port":21,
  "username":null,
  "password":null,
  "remotePath":null,
  "renameEnabled":false,
  "renamePattern":null,
  "renameUseUtc":false,
  "transferMultiplePictures":false,
  "preAlarmPictures":6,
  "postAlarmPictures":6,
  "pictureInterval":200,
  "showBoxes":true,
  "showText":true,
  "showTime":true,
  "showDate":true,
  "showPath":true,
  "resizePercent":-1,
  "cameras":[]
},
"email":{
  "emailAddresses":[],
  "emailIfUnacknowledged":false,
  "acknowledgeMinutes":0.0,
  "enabled":false
},
"tcp":{
  "enabled":false,
  "ipAddress":null,
  "port":80,
  "text":null
},
"runProgram":{
  "enabled":false,
  "workingDirectory":null,
  "filename":null,
  "arguments":null
},
"sounds":null,
"zoom":{
  "enabled":false,
  "autoTracking":false,
  "forcePtzLocation":false,
  "cameraId":null,
  "duration":30,
  "pan":0.0,
  "tilt":0.0,

```

```

    "zoom":0.0
  },
  "instructions":{
    "text":null,
    "enabled":false,
    "isFile":false,
    "fileId":0,
    "fileName":"","",
    "fileData":null
  },
  "rule":{
    "enabled":false,
    "ruleAction":0,
    "ruleIds":[]
  },
  "opc":{
    "enabled":false,
    "alarmType":1,
    "duration":1000
  },
  "sms":{
    "enabled":false,
    "comPort":"COM1",
    "baudRate":9600,
    "phoneNumbers":[],
    "message":null
  }
}

```

GET /rules/actionsets/basic

A [GET](#) request retrieves a summary of all the action sets.

```
curl https://127.0.0.1/api/rules/actionsets/basic
```

Example output:

```

{
  "currentPage":0,
  "pageCount":1,
  "items":[
    {
      "name":"Camera Tamper Action",
      "id":4,
      "systemRuleId":-2,
      "inUseByRules":[
        "52756c65-0000-0000-0000-000000000006",
        "52756c65-0000-0000-0000-000000000013",
        "52756c65-0000-0000-0000-000000000023"
      ]
    },
    {
      "name":"Lost Camera Connection Action",
      "id":1,
      "systemRuleId":-1,
      "inUseByRules":[
        "52756c65-0000-0000-0000-000000000003",
        "52756c65-0000-0000-0000-000000000028",
        "52756c65-0000-0000-0000-000000000029"
      ]
    },
    {
      "name":"Manual Alarm Action",
      "id":7,
      "systemRuleId":-4,
      "inUseByRules":["52756c65-0000-0000-0000-000000000009"]
    }
  ],
  "totalCount":3
}

```

GET /rules/actionsets/{actionset_id}

A [GET](#) request retrieves the details for a specific action set (*action_set_id*).

```
curl https://127.0.0.1/api/rules/actionsets/action_set_id
```

Example output:

```
{
  "name": "Manual Alarm Action",
  "alarm": {
    "enabled": true,
    "raiseAlarm": true,
    "viewDevices": [],
    "cameraId": null,
    "mapId": null
  },
  "alarmLog": {
    "enabled": false,
    "items": [
      {
        "enabled": true,
        "type": 0,
        "cameraId": null,
        "mapId": null
      },
      {
        "enabled": false,
        "type": 0,
        "cameraId": null,
        "mapId": null
      },
      {
        "enabled": false,
        "type": 0,
        "cameraId": null,
        "mapId": null
      },
      {
        "enabled": false,
        "type": 0,
        "cameraId": null,
        "mapId": null
      }
    ],
    "alarmMapId": null,
    "alarmMapEnabled": false
  },
  "changePermission": {
    "enabled": false,
    "resetWhenAcknowledged": true,
    "minutes": 30,
    "usersAndGroups": [],
    "rightsChanged": []
  },
  "record": {
    "enabled": true,
    "devices": []
  },
  "relay": {
    "enabled": false,
    "deviceId": 0,
    "relayAction": 0,
    "module": null,
    "restoreStateAction": 0,
    "restoreAfterDuration": 30
  },
  "commands": {
    "enabled": false,
    "commands": []
  },
  "ftp": {
    "enabled": false,
    "server": null,
    "port": 21,
    "username": null,
    "password": null,
  }
}
```

```
"remotePath":null,
"renameEnabled":false,
"renamePattern":null,
"renameUseUtc":false,
"transferMultiplePictures":false,
"preAlarmPictures":6,
"postAlarmPictures":6,
"pictureInterval":200,
"showBoxes":true,
"showText":true,
"showTime":true,
"showDate":true,
"showPath":true,
"resizePercent":-1,
"cameras":[]
},
"email":{
  "emailAddresses":[],
  "emailIfUnacknowledged":false,
  "acknowledgeMinutes":0.0,
  "enabled":false
},
"tcp":{
  "enabled":false,
  "ipAddress":null,
  "port":80,
  "text":null
},
"runProgram":{
  "enabled":false,
  "workingDirectory":null,
  "filename":null,
  "arguments":null
},
"sounds":null,
"zoom":{
  "enabled":false,
  "autoTracking":false,
  "forcePtzLocation":false,
  "cameraId":null,
  "duration":30,
  "pan":0.0,
  "tilt":0.0,
  "zoom":0.0
},
"instructions":{
  "text":null,
  "enabled":false,
  "isFile":false,
  "fileId":0,
  "fileName": "",
  "fileData":null
},
"rule":{
  "enabled":false,
  "ruleAction":0,
  "ruleIds":[]
},
"opc":{
  "enabled":false,
  "alarmType":1,
  "duration":1000
},
"sms":{
  "enabled":false,
  "comPort": "COM1",
  "baudRate":9600,
  "phoneNumbers":[],
  "message":null
},
"id":7,
"systemRuleId":-4,
"inUseByRules":["52756c65-0000-0000-0000-000000000009"]
}
```

DELETE /rules/actionsets/{actionset_id}

A **DELETE** request deletes a list of action sets (*action_set_id,action_set_id,*).

```
curl https://127.0.0.1/api/rules/actionsets
-X DELETE
-H "Content-Type: application/json"
-d "[action_set_id,action_set_id]"
```

PUT /rules/actionsets/{actionset_id}

A **PUT** request modifies a specific action set (*action_set_id*).

```
curl https://127.0.0.1/api/rules/actionsets/action_set_id
-X PUT
-H "Content-Type: application/json"
-d @CreateAction.json
```

POST /rules/events

A **POST** request creates a new event.

```
curl https://127.0.0.1/api/rules/events
-X POST
-H "Content-Type: application/json"
-d @CreateEvent.json
```

Example of CreateEvent.json:

```
{
  "id":12,
  "name":"Anything Moving",
  "enabled":true,
  "orderNum":0,
  "cameras":[],
  "hardwareDevices":[
    {
      "type":1,
      "inputModule":null,
      "inputType":null,
      "supportsCameraTamper":false,
      "supportsMotionCapture":true,
      "supportsDIO":true,
      "orderNum":0,
      "securityId":"fb33896c-05d7-4852-8a27-1130bb2e6080",
      "name":"Chris' Desk"
    }
  ],
  "hardwareSystemDevices":[],
  "accessDevices":[]
}
```

DELETE /rules/events

A **DELETE** request deletes a list of events (*event_id,event_id,*).

```
curl https://127.0.0.1/api/rules/events
-X DELETE
-H "Content-Type: application/json"
-d "[event_id,event_id]"
```


GET /rules/events/basic

A [GET](#) request retrieves a summary of all the events.

```
curl https://127.0.0.1/api/rules/events/basic
```

Example output:

```
{
  "currentPage":0,
  "pageCount":1,
  "items":[
    {
      "id":12,
      "name":"Anything Moving",
      "enabled":true,
      "deviceListString":["Chris' Desk"]
    },
    {
      "id":22,
      "name":"VMD 57",
      "enabled":true,
      "deviceListString":["AXIS M3007 Fisheye"]
    }
  ],
  "totalCount":2
}
```

GET /rules/events/list

A [GET](#) request retrieves the details of all the events.

```
curl https://127.0.0.1/api/rules/events/list
```

Example output:

```
{
  "currentPage":0,
  "pageCount":1,
  "items":[
    {
      "id":55,
      "name":"API - Event"
    },
    {
      "id":33,
      "name":"Event: Local NM"
    },
    {
      "id":30,
      "name":"Event: Local NM: Microwave"
    },
    {
      "id":31,
      "name":"Event: Local NM: Side A"
    },
    {
      "id":32,
      "name":"Event: Local NM: Side B"
    },
    {
      "id":15,
      "name":"Event: Local NM: Zone 1 (1)"
    },
    {
      "id":20,
      "name":"Event: Local NM: Zone 1 (2)"
    },
    {
      "id":25,
      "name":"Event: Local NM: Zone 1 (3)"
    },
    {

```

```

    "id":16,
    "name":"Event: Local NM:Zone 2 (1)"
  },
  {
    "id":21,
    "name":"Event: Local NM:Zone 2 (2)"
  },
  {
    "id":26,
    "name":"Event: Local NM:Zone 2 (3)"
  },
  {
    "id":17,
    "name":"Event: Local NM:Zone 3 (1)"
  },
  {
    "id":22,
    "name":"Event: Local NM:Zone 3 (2)"
  },
  {
    "id":27,
    "name":"Event: Local NM:Zone 3 (3)"
  },
  {
    "id":18,
    "name":"Event: Local NM:Zone 4 (1)"
  },
  {
    "id":23,
    "name":"Event: Local NM:Zone 4 (2)"
  },
  {
    "id":28,
    "name":"Event: Local NM:Zone 4 (3)"
  },
  {
    "id":19,
    "name":"Event: Local NM:Zone 5 (1)"
  },
  {
    "id":24,
    "name":"Event: Local NM:Zone 5 (2)"
  },
  {
    "id":29,
    "name":"Event: Local NM:Zone 5 (3)"
  },
  {
    "id":57,
    "name":"Listen for message"
  }
],
"totalCount":21
}

```

GET /rules/events/{event_id}

A **GET** request retrieves the details for a specific event (*event_id*).

```
curl https://127.0.0.1/api/rules/events/event_id
```

Example output:

```

{
  "id":12,
  "name":"Anything Moving",
  "enabled":true,
  "orderNum":0,
  "cameras":[],
  "hardwareDevices":[
    {
      "type":1,
      "inputModule":null,
      "inputType":null,
      "supportsCameraTamper":false,
      "supportsMotionCapture":true,
    }
  ]
}

```

```
    "supportsDIO": true,
    "orderNum": 0,
    "securityId": "fb33896c-05d7-4852-8a27-1130bb2e6080",
    "name": "Chris' Desk"
  }
],
"hardwareSystemDevices": [],
"accessDevices": [],
"inUseByRules": [
  "52756c65-0000-0000-0000-000000000013",
  "52756c65-0000-0000-0000-000000000028",
  "52756c65-0000-0000-0000-000000000029"
]
}
```

PUT /rules/events/{event_id}

A **PUT** request modifies a specific event (*event_id*).

```
curl https://127.0.0.1/api/rules/events/event_id
-X PUT
-H "Content-Type: application/json"
-d @CreateAction.json
```

/schedules

GET /schedules

A [GET](#) request retrieves a list of all schedules.

```
curl https://127.0.0.1/api/schedules
```

Sample output:

```
{
  "currentPage":0,
  "pageCount":1,
  "items":[
    {
      "id":5,
      "systemRuleId":-2,
      "name":"Camera Tamper Schedule",
      "days":[
        "1440a",
        "1440a",
        "1440a",
        "1440a",
        "1440a",
        "1440a",
        "1440a"
      ],
      "exceptions":[],
      "lockedDown":false
    },
    {
      "id":2,
      "systemRuleId":-1,
      "name":"Lost Camera Connection",
      "days":[
        "1440a",
        "1440a",
        "1440a",
        "1440a",
        "1440a",
        "1440a",
        "1440a"
      ],
      "exceptions":[],
      "lockedDown":false
    },
    {
      "id":26,
      "systemRuleId":0,
      "name":"Work Hours + 3-4",
      "days":[
        "1440i",
        "180i60a300i480a420i",
        "180i60a300i480a420i",
        "180i60a300i480a420i",
        "180i60a300i480a420i",
        "180i60a300i480a420i",
        "1440i"
      ],
      "exceptions":[],
      "lockedDown":false
    }
  ],
  "totalCount":3
}
```

POST /schedules

A **POST** request creates a new schedule.

```
curl https://127.0.0.1/api/schedules
-X POST
-H "Content-Type: application/json"
-d @CreateSchedule.json
```

Example of CreateSchedule.json:

```
{
  "name": "Inactive 9 - 5 Monday - Friday",
  "days": [
    "1440a",
    "540a480i420a",
    "540a480i420a",
    "540a480i420a",
    "540a480i420a",
    "540a480i420a",
    "1440a"
  ],
  "exceptions": [],
  "lockedDown": false
}
```

DELETE /schedules

A **DELETE** request deletes a list of events (*event_id,event_id, ...*).

```
curl https://127.0.0.1/api/schedules
-X DELETE
-H "Content-Type: application/json"
-d "[32]"
```

GET /schedules/{schedule_id}

A **GET** request retrieves the details for a specific event (*schedule_id*).

```
curl https://127.0.0.1/api/schedules/2
```

Sample output:

```
{
  "id": 2,
  "systemRuleId": -1,
  "name": "Lost Camera Connection",
  "days": [
    "1440a",
    "1440a",
    "1440a",
    "1440a",
    "1440a",
    "1440a",
    "1440a",
    "1440a"
  ],
  "exceptions": [],
  "lockedDown": false
}
```

PUT /schedules/{schedule_id}

A **PUT** request modifies a specific schedule (*schedule_id*).

```
curl https://127.0.0.1/api/rules/events/31
-X PUT
-H "Content-Type: application/json"
```

```
-d @CreateAction.json
```

/security

PUT /security/permissions/{target_device_ID}/copy/{source_device_id}

A **PUT** request copies the permissions from one device (*source_device_id*) to another device (*target_device_id*).

```
curl https://localhost/api/security/permissions/E2882CE7-B2A7-48AE-82D4-37AD79E24BB0/copy/CE80B4F1-10E7-4340-8376-8D59E86C5464-X PUT
```

PUT /security/permissions/{device_id}

A **PUT** request sets the permission for a device (*device_id*).

```
curl https://localhost/api/security/permissions/E2882CE7-B2A7-48AE-82D4-37AD79E24BB0-X PUT-H "Content-Type: application/json"--data-binary "@.\PutPermissionsBody.txt"
```

Example of PutPermissionsBody.txt:

```
{  "permissions":  [  {  "id": 2000,  "explicit": 1,  "profileId": 1,  "resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",  "principalId": "E2882CE7-B2A7-48AE-82D4-37AD79E24BB0"  },  {  "id": 2001,  "explicit": 0,  "profileId": 1,  "resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",  "principalId": "E2882CE7-B2A7-48AE-82D4-37AD79E24BB0"  }  ]  }
```

GET /security/rights/{resource_id}

A **GET** request retrieves the permissions for a specific resource (*resource_id*).

```
curl https://127.0.0.1/api/security/rights/3E7CBAD0-1946-4CC5-80AA-2A0162A9792B
```

Example output:

```
[  {  "id": 2000,  "name": "6_3234_2000_1",  "group": "DeviceRightGroupMisc"  },  {  "id": 2001,  "name": "6_3234_2001_1",  "group": "DeviceRightGroupConfiguration"  },  {  "id": 2002,  "name": "6_3234_2002_1",  "group": "DeviceRightGroupConfiguration"  }  ],
```

```
{
  "id": 2003,
  "name": "6_3234_2003_1",
  "group": "DeviceRightGroupVideo"
},
{
  "id": 2004,
  "name": "6_3234_2004_1",
  "group": "DeviceRightGroupVideo"
},
{
  "id": 2005,
  "name": "6_3234_2005_1",
  "group": "DeviceRightGroupSearch"
},
{
  "id": 2006,
  "name": "6_3234_2006_1",
  "group": "DeviceRightGroupPTZ"
},
{
  "id": 2007,
  "name": "6_3234_2007_1",
  "group": "DeviceRightGroupAlarm"
},
{
  "id": 2008,
  "name": "6_3234_2008_1",
  "group": "DeviceRightGroupVideo"
},
{
  "id": 2009,
  "name": "6_3234_2009_1",
  "group": "DeviceRightGroupConfiguration"
},
{
  "id": 2010,
  "name": "6_3233_2010_1",
  "group": "DeviceRightGroupConfiguration"
},
{
  "id": 2011,
  "name": "6_3233_2011_1",
  "group": "DeviceRightGroupConfiguration"
},
{
  "id": 2012,
  "name": "DeviceRightCalibratePtzCamera",
  "group": "DeviceRightGroupPTZ"
},
{
  "id": 2013,
  "name": "DeviceRightAudioCanListen",
  "group": "DeviceRightGroupAudio"
},
{
  "id": 2014,
  "name": "DeviceRightAudioCanTalk",
  "group": "DeviceRightGroupAudio"
},
{
  "id": 2015,
  "name": "DeviceRightViewPrivateVideo",
  "group": "DeviceRightGroupVideo"
},
{
  "id": 2016,
  "name": "DeviceRightPTZPresets",
  "group": "DeviceRightGroupPTZ"
},
{
  "id": 2017,
  "name": "DeviceRightViewRestrictedHistoricalVideo",
  "group": "DeviceRightGroupVideo"
},
{
  "id": 2018,
  "name": "DeviceRightTriggerManualAlarm",
  "group": "DeviceRightGroupAlarm"
},
}
```



```
{
  "id": 2019,
  "name": "LPR_Security_Edit_Plate",
  "group": "DeviceRightGroupLPR"
},
{
  "id": 2020,
  "name": "DeviceRightZoom",
  "group": "DeviceRightGroupPTZ"
},
{
  "id": 2200,
  "name": "DioRightViewIOState",
  "group": "DioRightGroupMisc"
},
{
  "id": 2201,
  "name": "DioRightChangeIOState",
  "group": "DioRightGroupConfiguration"
}
]
```

GET /security/profiles

A **GET** request retrieves general information about the security profiles.

```
curl https://127.0.0.1/api/security/profiles
```

Example output:

```
[
  {
    "id": 1,
    "name": "Default",
    "description": "Default security profile",
    "isActive": false
  },
  {
    "id": 2,
    "name": "Morning (denied)",
    "description": "",
    "isActive": true
  },
  {
    "id": 3,
    "name": "Night (allowed)",
    "description": "",
    "isActive": false
  }
]
```

PUT /security/profiles

A **PUT** request updates a specific security profile.

```
curl https://localhost/api/security/profiles
-X PUT
-H "Content-Type: application/json"
--data-binary "@.\UpdateSecurityProfileBody.txt"
```

Example of UpdateSecurityProfileBody.txt:

```
{
  "id": 2,
  "name": "UpdatedProfileName",
  "description": "Updated profile description",
}
```

POST /security/profiles/{profile_id}

A **POST** request creates a new security profile with permissions copied from a specific security profile (*profile_id*).

```
curl https://localhost/api/security/profiles/1
-X POST
-H "Content-Type: application/json"
--data-binary "@.\SaveNewSecurityProfileBody.txt"
```

Example of SaveNewSecurityProfileBody.txt:

```
{
  "name": "NewProfileName",
  "description": "Description of new profile",
}
```

DELETE /security/profiles/{profile_id}

A **DELETE** request deletes a security profile (*profile_id*).

```
curl https://localhost/api/security/profiles/4
-X DELETE
```

GET /security/profiles/{profile_id}/permissions/{user_id}/resources/{camera_id}

A **GET** request retrieves the permissions for a security profile (*profile_id*) with a user (*user_id*) for a camera (*camera_id*).

```
curl https://127.0.0.1/api/security/profiles/1/permissions/84102CD4-1DA0-44D8-A12C-1A4AEBDA15FF/
resources/3E7CBAD0-1946-4CC5-80AA-2A0162A9792B
```

Example output:

```
[
  {
    "id": 2000,
    "group": "DeviceRightGroupMisc",
    "name": "6_3234_2000_1",
    "description": "6_3234_2000_2",
    "explicit": 1,
    "effective": 1,
    "inherited": 1,
    "profileId": 1,
    "resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",
    "resourceName": "AXISF44_10.234.9.39_4",
    "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
    "principalName": "admin",
    "isEditable": true,
    "enforced": true,
    "isHidden": false
  },
  {
    "id": 2001,
    "group": "DeviceRightGroupConfiguration",
    "name": "6_3234_2001_1",
    "description": "6_3234_2001_2",
    "explicit": 1,
    "effective": 1,
    "inherited": 1,
    "profileId": 1,
    "resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",
    "resourceName": "AXISF44_10.234.9.39_4",
    "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
    "principalName": "admin",
    "isEditable": true,
    "enforced": true,
    "isHidden": false
  }
]
```

```

},
{
  "id": 2002,
  "group": "DeviceRightGroupConfiguration",
  "name": "6_3234_2002_1",
  "description": "6_3234_2002_2",
  "explicit": 1,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",
  "resourceName": "AXISF44_10.234.9.39_4",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": true,
  "isHidden": false
},
{
  "id": 2003,
  "group": "DeviceRightGroupVideo",
  "name": "6_3234_2003_1",
  "description": "6_3234_2003_2",
  "explicit": 1,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",
  "resourceName": "AXISF44_10.234.9.39_4",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": true,
  "isHidden": false
},
{
  "id": 2004,
  "group": "DeviceRightGroupVideo",
  "name": "6_3234_2004_1",
  "description": "6_3234_2004_2",
  "explicit": 1,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",
  "resourceName": "AXISF44_10.234.9.39_4",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": true,
  "isHidden": false
},
{
  "id": 2005,
  "group": "DeviceRightGroupSearch",
  "name": "6_3234_2005_1",
  "description": "6_3234_2005_2",
  "explicit": 1,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",
  "resourceName": "AXISF44_10.234.9.39_4",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": true,
  "isHidden": false
},
{
  "id": 2006,
  "group": "DeviceRightGroupPTZ",
  "name": "6_3234_2006_1",
  "description": "6_3234_2006_2",
  "explicit": 1,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",
  "resourceName": "AXISF44_10.234.9.39_4",

```

```
"principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
"principalName": "admin",
"isEditable": true,
"enforced": true,
"isHidden": false
},
{
  "id": 2007,
  "group": "DeviceRightGroupAlarm",
  "name": "6_3234_2007_1",
  "description": "6_3234_2007_2",
  "explicit": 1,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",
  "resourceName": "AXISF44_10.234.9.39_4",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": true,
  "isHidden": false
},
{
  "id": 2008,
  "group": "DeviceRightGroupVideo",
  "name": "6_3234_2008_1",
  "description": "6_3234_2008_2",
  "explicit": 1,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",
  "resourceName": "AXISF44_10.234.9.39_4",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": true,
  "isHidden": false
},
{
  "id": 2009,
  "group": "DeviceRightGroupConfiguration",
  "name": "6_3234_2009_1",
  "description": "6_3234_2009_2",
  "explicit": 1,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",
  "resourceName": "AXISF44_10.234.9.39_4",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": true,
  "isHidden": false
},
{
  "id": 2010,
  "group": "DeviceRightGroupConfiguration",
  "name": "6_3233_2010_1",
  "description": "6_3233_2010_2",
  "explicit": 1,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",
  "resourceName": "AXISF44_10.234.9.39_4",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": true,
  "isHidden": false
},
{
  "id": 2011,
  "group": "DeviceRightGroupConfiguration",
  "name": "6_3233_2011_1",
  "description": "6_3233_2011_2",
  "explicit": 1,
```

```
"effective": 1,
"inherited": 1,
"profileId": 1,
"resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",
"resourceName": "AXISF44_10.234.9.39_4",
"principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
"principalName": "admin",
"isEditable": true,
"enforced": true,
"isHidden": false
},
{
  "id": 2012,
  "group": "DeviceRightGroupPTZ",
  "name": "DeviceRightCalibratePtzCamera",
  "description": "DeviceRightCalibratePtzCameraDesc",
  "explicit": 1,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",
  "resourceName": "AXISF44_10.234.9.39_4",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": true,
  "isHidden": false
},
{
  "id": 2013,
  "group": "DeviceRightGroupAudio",
  "name": "DeviceRightAudioCanListen",
  "description": "DeviceRightAudioCanListenDesc",
  "explicit": 1,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",
  "resourceName": "AXISF44_10.234.9.39_4",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": true,
  "isHidden": false
},
{
  "id": 2014,
  "group": "DeviceRightGroupAudio",
  "name": "DeviceRightAudioCanTalk",
  "description": "DeviceRightAudioCanTalkDesc",
  "explicit": 1,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",
  "resourceName": "AXISF44_10.234.9.39_4",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": true,
  "isHidden": false
},
{
  "id": 2015,
  "group": "DeviceRightGroupVideo",
  "name": "DeviceRightViewPrivateVideo",
  "description": "DeviceRightViewPrivateVideoDesc",
  "explicit": 1,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",
  "resourceName": "AXISF44_10.234.9.39_4",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": true,
  "isHidden": false
},
{
```

```

    "id": 2016,
    "group": "DeviceRightGroupPTZ",
    "name": "DeviceRightPTZPresets",
    "description": "DeviceRightPTZPresetsDesc",
    "explicit": 1,
    "effective": 1,
    "inherited": 1,
    "profileId": 1,
    "resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",
    "resourceName": "AXISF44_10.234.9.39_4",
    "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
    "principalName": "admin",
    "isEditable": true,
    "enforced": true,
    "isHidden": false
  },
  {
    "id": 2017,
    "group": "DeviceRightGroupVideo",
    "name": "DeviceRightViewRestrictedHistoricalVideo",
    "description": "DeviceRightViewRestrictedHistoricalVideoDesc",
    "explicit": 1,
    "effective": 1,
    "inherited": 1,
    "profileId": 1,
    "resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",
    "resourceName": "AXISF44_10.234.9.39_4",
    "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
    "principalName": "admin",
    "isEditable": true,
    "enforced": true,
    "isHidden": false
  },
  {
    "id": 2018,
    "group": "DeviceRightGroupAlarm",
    "name": "DeviceRightTriggerManualAlarm",
    "description": "DeviceRightTriggerManualAlarmDesc",
    "explicit": 1,
    "effective": 1,
    "inherited": 1,
    "profileId": 1,
    "resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",
    "resourceName": "AXISF44_10.234.9.39_4",
    "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
    "principalName": "admin",
    "isEditable": true,
    "enforced": true,
    "isHidden": false
  },
  {
    "id": 2019,
    "group": "DeviceRightGroupLPR",
    "name": "LPR_Security_Edit_Plate",
    "description": "LPR_Security_Edit_Plate",
    "explicit": 1,
    "effective": 1,
    "inherited": 1,
    "profileId": 1,
    "resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",
    "resourceName": "AXISF44_10.234.9.39_4",
    "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
    "principalName": "admin",
    "isEditable": true,
    "enforced": true,
    "isHidden": false
  },
  {
    "id": 2020,
    "group": "DeviceRightGroupPTZ",
    "name": "DeviceRightZoom",
    "description": "DeviceRightZoomDesc",
    "explicit": 1,
    "effective": 1,
    "inherited": 1,
    "profileId": 1,
    "resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",
    "resourceName": "AXISF44_10.234.9.39_4",
    "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
    "principalName": "admin",
  }

```

```

    "isEditable": true,
    "enforced": true,
    "isHidden": false
  },
  {
    "id": 2200,
    "group": "DioRightGroupMisc",
    "name": "DioRightViewIOState",
    "description": "DioRightViewIOStateDesc",
    "explicit": 1,
    "effective": 1,
    "inherited": 1,
    "profileId": 1,
    "resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",
    "resourceName": "AXISF44_10.234.9.39_4",
    "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
    "principalName": "admin",
    "isEditable": true,
    "enforced": true,
    "isHidden": false
  },
  {
    "id": 2201,
    "group": "DioRightGroupConfiguration",
    "name": "DioRightChangeIOState",
    "description": "DioRightChangeIOStateDesc",
    "explicit": 1,
    "effective": 1,
    "inherited": 1,
    "profileId": 1,
    "resourceId": "3e7cbad0-1946-4cc5-80aa-2a0162a9792b",
    "resourceName": "AXISF44_10.234.9.39_4",
    "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
    "principalName": "admin",
    "isEditable": true,
    "enforced": true,
    "isHidden": false
  }
]

```

GET /security/profiles/{profile_id}/permissions/{user_id}/resources/site

A **GET** request returns the user (*user_id*) permissions for a profile (*profile_id*) by site.

```
curl https://127.0.0.1/api/security/profiles/1/permissions/84102CD4-1DA0-44D8-A12C-1A4AEBDA15FF/resources/site
```

Example output:

```

[
  {
    "id": 1000,
    "group": "FarmRightGroupMisc",
    "name": "6_3234_1000_1",
    "description": "6_3234_1000_2",
    "explicit": 0,
    "effective": 1,
    "inherited": 1,
    "profileId": 1,
    "resourceId": "814b68bb-eec9-4bb4-b2de-1abe10cb982e",
    "resourceName": "[dev-eavis]",
    "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
    "principalName": "admin",
    "isEditable": true,
    "enforced": false,
    "isHidden": false
  },
  {
    "id": 1001,
    "group": "FarmRightGroupMisc",
    "name": "6_3234_1001_1",
    "description": "6_3234_1001_2",
    "explicit": 0,
    "effective": 1,
    "inherited": 1,
    "profileId": 1,
    "resourceId": "814b68bb-eec9-4bb4-b2de-1abe10cb982e",

```

```

"resourceName": "[dev-eavis]",
"principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
"principalName": "admin",
"isEditable": true,
"enforced": false,
"isHidden": false
},
{
  "id": 1020,
  "group": "FarmRightGroupMisc",
  "name": "6_3234_1020_1",
  "description": "6_3234_1020_2",
  "explicit": 0,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "814b68bb-eec9-4bb4-b2de-1abe10cb982e",
  "resourceName": "[dev-eavis]",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": false,
  "isHidden": false
},
{
  "id": 1021,
  "group": "FarmRightGroupMisc",
  "name": "6_3234_1021_1",
  "description": "6_3234_1021_2",
  "explicit": 0,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "814b68bb-eec9-4bb4-b2de-1abe10cb982e",
  "resourceName": "[dev-eavis]",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": false,
  "isHidden": true
},
{
  "id": 1022,
  "group": "FarmRightGroupMisc",
  "name": "6_3234_1022_1",
  "description": "6_3234_1022_2",
  "explicit": 0,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "814b68bb-eec9-4bb4-b2de-1abe10cb982e",
  "resourceName": "[dev-eavis]",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": false,
  "isHidden": false
},
{
  "id": 1023,
  "group": "FarmRightGroupMisc",
  "name": "6_3234_1023_1",
  "description": "6_3234_1023_2",
  "explicit": 0,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "814b68bb-eec9-4bb4-b2de-1abe10cb982e",
  "resourceName": "[dev-eavis]",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": false,
  "isHidden": false
},
{
  "id": 1024,
  "group": "FarmRightGroupMisc",
  "name": "6_3234_1024_1",
  "description": "6_3234_1024_2",

```



```
"explicit": 0,
"effective": 1,
"inherited": 1,
"profileId": 1,
"resourceId": "814b68bb-eec9-4bb4-b2de-1abe10cb982e",
"resourceName": "[dev-eavis]",
"principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
"principalName": "admin",
"isEditable": true,
"enforced": false,
"isHidden": false
},
{
  "id": 1025,
  "group": "FarmRightGroupMisc",
  "name": "6_3234_1025_1",
  "description": "6_3234_1025_2",
  "explicit": 0,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "814b68bb-eec9-4bb4-b2de-1abe10cb982e",
  "resourceName": "[dev-eavis]",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": false,
  "isHidden": false
},
{
  "id": 1026,
  "group": "FarmRightGroupMisc",
  "name": "6_3234_1026_1",
  "description": "6_3234_1026_2",
  "explicit": 0,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "814b68bb-eec9-4bb4-b2de-1abe10cb982e",
  "resourceName": "[dev-eavis]",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": false,
  "isHidden": false
},
{
  "id": 1100,
  "group": "FarmRightGroupConfiguration",
  "name": "6_3234_1100_1",
  "description": "6_3234_1100_2",
  "explicit": 0,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "814b68bb-eec9-4bb4-b2de-1abe10cb982e",
  "resourceName": "[dev-eavis]",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": false,
  "isHidden": false
},
{
  "id": 1101,
  "group": "FarmRightGroupConfiguration",
  "name": "6_3234_1101_1",
  "description": "6_3234_1101_2",
  "explicit": 0,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "814b68bb-eec9-4bb4-b2de-1abe10cb982e",
  "resourceName": "[dev-eavis]",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": false,
  "isHidden": false
},
}
```

```

{
  "id": 1102,
  "group": "FarmRightGroupConfiguration",
  "name": "6_3234_1102_1",
  "description": "6_3234_1102_2",
  "explicit": 0,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "814b68bb-eec9-4bb4-b2de-1abe10cb982e",
  "resourceName": "[dev-eavis]",
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  "principalName": "admin",
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  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
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  "enforced": false,
  "isHidden": false
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  "name": "6_1230_1202_1",
  "description": "6_1230_1202_2",
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  "id": 1909,
  "group": "FarmRightGroupLPR",
  "name": "LPR_MANAGE_SPECIAL_CHARS",
  "description": "LPR_Security_Manage_Special_Characters_Description",
  "explicit": 0,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "814b68bb-eec9-4bb4-b2de-1abe10cb982e",
  "resourceName": "[dev-eavis]",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": false,
  "isHidden": false
},
{
  "id": 1950,
  "group": "FarmRightGroupFaceRec",
  "name": "VE420_Security_View_Faces_Name",
  "description": "VE420_Security_View_Faces_Description",
  "explicit": 0,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "814b68bb-eec9-4bb4-b2de-1abe10cb982e",
  "resourceName": "[dev-eavis]",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": false,
  "isHidden": false
},
{
  "id": 1951,
  "group": "FarmRightGroupFaceRec",
  "name": "VE420_Security_Change_Faces_Name",
  "description": "VE420_Security_Change_Faces_Description",
  "explicit": 0,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "814b68bb-eec9-4bb4-b2de-1abe10cb982e",
  "resourceName": "[dev-eavis]",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": false,
  "isHidden": false
},
{
  "id": 1952,
  "group": "FarmRightGroupFaceRec",
  "name": "VE420_Security_Manage_Face_Lists_Name",
  "description": "VE420_Security_Manage_Face_Lists_Description",
  "explicit": 0,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "814b68bb-eec9-4bb4-b2de-1abe10cb982e",
  "resourceName": "[dev-eavis]",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": false,
  "isHidden": false
},
{
  "id": 1960,
  "group": "FarmRightGroupPOS",
  "name": "POS_SECURITY_VIEW_DATA",
  "description": "POS_SECURITY_VIEW_DATA_DESCRIPTION",
  "explicit": 0,

```

```
"effective": 1,
"inherited": 1,
"profileId": 1,
"resourceId": "814b68bb-eec9-4bb4-b2de-1abe10cb982e",
"resourceName": "[dev-eavis]",
"principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
"principalName": "admin",
"isEditable": true,
"enforced": false,
"isHidden": false
},
{
  "id": 1961,
  "group": "FarmRightGroupPOS",
  "name": "POS_SECURITY_CHANGE_DATA",
  "description": "POS_SECURITY_CHANGE_DATA_DESCRIPTION",
  "explicit": 0,
  "effective": 1,
  "inherited": 1,
  "profileId": 1,
  "resourceId": "814b68bb-eec9-4bb4-b2de-1abe10cb982e",
  "resourceName": "[dev-eavis]",
  "principalId": "84102cd4-1da0-44d8-a12c-1a4aebda15ff",
  "principalName": "admin",
  "isEditable": true,
  "enforced": false,
  "isHidden": false
}
]
```

/devicegroups

GET /devicegroups

A **GET** request retrieves a list of all device groups.

```
curl https://127.0.0.1/api/devicegroups
```

Example output:

```
[
  {
    "groupId": "44657669-6365-7300-0000-000000000000",
    "securityId": "44657669-6365-7300-0000-000000000000",
    "parentGroupId": "00000000-0000-0000-0000-000000000000",
    "name": "<All Devices>",
    "canInsertMember": true,
    "canRemoveMember": true,
    "canEdit": true,
    "canDelete": true,
    "isDevicesGroup": false,
    "isThinClientsGroup": false
  },
  {
    "groupId": "4382f1c6-47bb-44b0-ab34-1a4b1923c5be",
    "securityId": "4382f1c6-47bb-44b0-ab34-1a4b1923c5be",
    "parentGroupId": "44657669-6365-7300-0000-000000000000",
    "name": "",
    "canInsertMember": true,
    "canRemoveMember": true,
    "canEdit": true,
    "canDelete": true,
    "isDevicesGroup": false,
    "isThinClientsGroup": true
  },
  {
    "groupId": "191bb8ab-099a-41ad-9e8e-bf4854a72d15",
    "securityId": "191bb8ab-099a-41ad-9e8e-bf4854a72d15",
    "parentGroupId": "44657669-6365-7300-0000-000000000000",
    "name": "",
    "canInsertMember": true,
    "canRemoveMember": true,
    "canEdit": true,
    "canDelete": true,
    "isDevicesGroup": true,
    "isThinClientsGroup": false
  }
]
```

PUT /devicegroups/devicetree

A **PUT** request can create or delete a device group, and move devices between groups.

A **PUT** request can create a new device group.

```
curl https://127.0.0.1:443/api/devicegroups/devicetree/
-X PUT
-H "Content-Type: application/json"
-d @add_group.json
```

Example of add_group.json:

```
[
  {
    "action": "AddGroup",
    "securityId": "69a63424-b335-4aea-9c39-880042488ccb",
    "parentGroupId": "44657669-6365-7300-0000-000000000000"
  },
  {

```

```

        "action": "RenameGroup",
        "securityId": "69a63424-b335-4aea-9c39-880042488ccb",
        "name": "New Group"
    }
]

```

A **PUT** request can move a camera to a new device group.

```

curl https://127.0.0.1:443/api/devicegroups/devicetree/
-X PUT
-H "Content-Type: application/json"
-d @move_group.json

```

Example of move_device.json:

```

[
  {
    "action": "RemoveDeviceFromGroup",
    "securityId": "20693d7d-7493-4e71-8d69-bd08f5abcd29",
    "parentGroupId": "191bb8ab-099a-41ad-9e8e-bf4854a72d15"
  },
  {
    "action": "AddDeviceToGroup",
    "securityId": "20693d7d-7493-4e71-8d69-bd08f5abcd29",
    "parentGroupId": "69a63424-b335-4aea-9c39-880042488ccb"
  }
]

```

A **PUT** request can copy a camera to the main devices group.

```

curl https://127.0.0.1:443/api/devicegroups/devicetree/
-X PUT
-H "Content-Type: application/json"
-d @copy_device.json

```

Example of copy_device.json:

```

[
  {
    "action": "AddDeviceToGroup",
    "securityId": "20693d7d-7493-4e71-8d69-bd08f5abcd29",
    "parentGroupId": "191bb8ab-099a-41ad-9e8e-bf4854a72d15"
  }
]

```

A **PUT** request can remove a camera from a device group.

```

curl https://127.0.0.1:443/api/devicegroups/devicetree/
-X PUT
-H "Content-Type: application/json"
-d @remove_device.json

```

Example of remove_device.json:

```

[
  {
    "action": "RemoveDeviceFromGroup",
    "securityId": "20693d7d-7493-4e71-8d69-bd08f5abcd29",
    "parentGroupId": "69a63424-b335-4aea-9c39-880042488ccb"
  }
]

```

A **PUT** request can delete a device group.

```

curl https://127.0.0.1:443/api/devicegroups/devicetree/
-X PUT
-H "Content-Type: application/json"
-d @remove_group.json

```

Example of remove_group.json:

```
[
  {
    "action": "DeleteGroup",
    "securityId": "69a63424-b335-4aea-9c39-880042488ccb",
    "parentGroupId": "191bb8ab-099a-41ad-9e8e-bf4854a72d15"
  }
]
```

/videowalls

GET /videowalls

A [GET](#) request retrieves a list of all device groups.

```
curl https://127.0.0.1/api/videowalls
```

Example output:

```
[
  {
    "id": "3dbfda49-0f75-45d8-bdb4-0fb8d83d2fe6",
    "name": "test",
    "controllers": [
      {
        "name": "JOSIC",
        "label": "JOSIC:50005-M1",
        "macAddress": "F8-32-E4-C0-7D-64",
        "port": 50005,
        "monitors": [
          {
            "id": 1,
            "label": "JOSIC:50005-M1",
            "left": 0,
            "top": 33,
            "width": 400,
            "height": 245
          }
        ]
      }
    ]
  },
  {
    "parentIds": [
      "b71f147a-3c7b-4dae-b9a7-3c46d1357d20"
    ]
  },
  {
    "id": "4512206c-bd56-4304-b806-d1d765270ad7",
    "name": "Video Wall 1",
    "controllers": [
      {
        "name": "JOSIC",
        "label": "JOSIC:50005-M1",
        "macAddress": "F8-32-E4-C0-7D-64",
        "port": 50005,
        "monitors": [
          {
            "id": 1,
            "label": "JOSIC:50005-M1",
            "left": 0,
            "top": 25,
            "width": 400,
            "height": 245
          }
        ]
      }
    ]
  },
  {
    "parentIds": [
      "b71f147a-3c7b-4dae-b9a7-3c46d1357d20"
    ]
  }
]
```

GET /videowalls/{videowall_id}

A [GET](#) request retrieves the details about a videowall (*videowall_id*).

```
curl https://127.0.0.1:443/api/videowalls/3dbfda49-0f75-45d8-bdb4-0fb8d83d2fe6
```

Example output:

```
{
  "id": "3dbfda49-0f75-45d8-bdb4-0fb8d83d2fe6",
  "name": "test",
  "controllers": [
    {
      "name": "JOSIC",
      "label": "JOSIC:50005-M1",
      "macAddress": "F8-32-E4-C0-7D-64",
      "port": 50005,
      "monitors": [
        {
          "id": 1,
          "label": "JOSIC:50005-M1",
          "left": 0,
          "top": 33,
          "width": 400,
          "height": 245
        }
      ]
    }
  ],
  "parentIds": [
    "b71f147a-3c7b-4dae-b9a7-3c46d1357d20"
  ]
}
```

GET /videowalls/groups

A **GET** request retrieves the details about a videowall groups.

```
curl https://127.0.0.1:443/api/videowalls/groups
```

Example output:

```
[
  {
    "id": "b71f147a-3c7b-4dae-b9a7-3c46d1357d20",
    "parentIds": [],
    "name": "<All Video Walls>",
    "description": "The video wall root group."
  }
]
```

GET /videowalls/panels/{videowall_name}

A **GET** request retrieves the panels of a videowall (*videowall_name*).

```
curl https://127.0.0.1:443/api/videowalls/panels/test
```

Example output:

```
[
  "JOSIC:50005-MV Console-P2,0",
  "JOSIC:50005-MV Console-P1,0",
  "JOSIC:50005-MV Console-P4,0",
  "JOSIC:50005-MV Console-P3,0"
]
```

PUT /videowalls/switchpanel/{panel_name}/{camera_id}

A **PUT** request displays a camera (*camera_id*) in a videowall panel (*panel_name*).

```
curl https://127.0.0.1:443/api/videowalls/switchPanel/50005-MV%20Console-P1/23
-X PUT
```


PUT /videowalls/switchpanel/{panel_name}/{camera_id}/{time_ms}/play_boolean

A **PUT** request displays a camera (*camera_id*) in a videowall panel (*panel_name*) and either plays the video (*play_boolean* = true) or displays an image (*play_boolean* = false) at a specific time (*time_ms*).

```
curl https://127.0.0.1:443/api/videowalls/switchPanelHistorical/50005-MV%20Console-P1/23/1583175807000/false -X PUT
```

PUT /videowalls/changePanelCount/{panel_name}/{panel_count}

A **PUT** request changes the number of camera views (*panel_count*) in a panel (*panel_name*).

```
curl https://127.0.0.1:443/api/videowalls/changePanelCount/50005-MV%20Console-P1/1 -X PUT
```

PUT /videowalls/navigatepanel/{panel_name}/{navigation_command}

A **PUT** request applies a command (*navigation_command*) to the video in the camera view panel (*panel_name*).

```
curl https://127.0.0.1:443/api/videowalls/navigatePanel/50005-MV%20Console-P1/1 -X PUT
```

Navigation commands

Command	Value	Description
NAV_1FRAME_BACK	1	Navigate the video back one frame.
NAV_1FRAME_FORWARD	2	Navigate the video forward one frame.
NAV_1SEC_BACK	8	Navigate the video back one second.
NAV_1SEC_FORWARD	16	Navigate the video forward one second.
NAV_10SEC_BACK	32	Navigate the video back ten seconds.
NAV_10SEC_FORWARD	64	Navigate the video forward ten seconds.
NAV_PLAY	128	Play the video.
NAV_STOP	256	Stop the video.
NAV_ACTIVITY_BACK	512	Navigate the video back to the last activity.
NAV_ACTIVITY_FORWARD	1024	Navigate the video forward to the next activity.
NAV_ALARM_BACK	2048	Navigate the video back to the last alarm.
NAV_ALARM_FORWARD	4096	Navigate the video forward to the next alarm.
NAV_LIVE	8192	Resume live video.

Command	Value	Description
NAV_BLANK_CAMERA	262144	Clear the camera view panel. This command corresponds to the View Blank Camera command in the Senstar Symphony Client.

PUT /videowalls/switchmonitor/{videowall_id}/{mac_address}/{port}/{monitor_id}/{camera_id}

A **PUT** request switches the view on a monitor (*monitor_id*, *mac_address*, *port*) of a videowall (*videowall_id*), to a camera (*camera_id*).

```
curl https://127.0.0.1:443/api/videowalls/switchMonitor/3dbfda49-0f75-45d8-bdb4-0fb8d83d2fe6/F8-32-E4-C0-7D-64/50005/1/23
-X PUT
```

PUT /videowalls/switchMonitorHistorical/{videowall_id}/{mac_address}/{port}/{monitor_id}/{camera_id}/{milliseconds}/{play_boolean}

A **PUT** request switches the view on a monitor (*monitor_id*, *mac_address*, *port*) of a videowall (*videowall_id*), to a camera (*camera_id*) at a specific time (*milliseconds*) and either plays video (true) or displays an image (false) (*play_boolean*).

```
curl https://127.0.0.1:443/api/videowalls/switchMonitorHistorical/3dbfda49-0f75-45d8-bdb4-0fb8d83d2fe6/F8-32-E4-C0-7D-64/50005/1/23/1583175807000/false
-X PUT
```

POST /videowalls/createmultiview/{ip_address}/{x}/{y}/{fullscreen_panel_id}

A **POST** request creates a multi-camera view for the videowall on a Senstar Symphony Client (*ip_address*) at the coordinates (*x*, *y*).

```
curl https://127.0.0.1:443/api/videowalls/createMultiview/10.0.0.75/0/0/-1
-X POST
-H "Content-Type: application/json"
-d @createMultiviewPanel.json
```

Example of createMultiviewPanel.json:

```
[
  {
    "timestamp": 0,
    "displayType": "LiveVideo",
    "renderMode": "VR_DEFAULT",
    "cameraId": 23
  }
]
```

GET /videowalls/cameraOnPanel/{videowall_name}/{panel_name}

A **GET** request returns the name of the camera shown in a panel (*panel_name*) of a videowall (*videowall_name*).

```
curl https://127.0.0.1:443/api/videowalls/cameraOnPanel/test/JOSIC:50005-MV%20Console-P1
```

/site

GET /site/sharedViews

A GET request retrieves details of the shared views.

```
curl https://127.0.0.1/api/site/sharedViews
```

Example output:

```
[{"name": "MyFourCamera", "viewData": {"MultiView ID": "MV Console", "CameraViewName": "MyFourCamera"}
<Toolbar><TitleBar visible="True" /><Decorations visible="False" /><Timeline visible="False" />
<SynchronizeTimes enabled="False" /><Fullscreen disabled="True" /></Toolbar><DockManager
<XtraSerializer version="1.0" application="CDockManager"><property name="#LayoutVersion" />
<property name="AutoHiddenPanelCaptionShowMode">ShowForAllPanels</property>
<property name="DockingOptions" isnull="true" iskey="true">
<property name="AutoHidePanelVerticalTextOrientation">Default</property>
<property name="CursorFloatCanceled" isnull="true" /><property name="HideImmediatelyOnAutoHide">true</
property>
<property name="CloseActiveTabOnly">true</property><property name="CloseActiveFloatTabOnly">false</property>
<property name="ShowCaptionOnMouseHover">false</property><property name="ShowCaptionImage">false</property>
<property name="DockPanelInTabContainerTabRegion">DockImmediately</property>
<property name="DockPanelInCaptionRegion">Default</property><property name="ShowMaximizeButton">false</
property>
<property name="ShowAutoHideButton">false</property><property name="ShowCloseButton">true</property>
<property name="FloatOnDbClick">true</property></property><property name="ActivePanelID">-1</property>
<property name="XtraSerializableScreenConfiguration" iskey="true" value="3">
<property name="Item1">@1, X=0@1, Y=0@4, Width=1920@4, Height=1080</property>
<property name="Item2">@4, X=1920@1, Y=0@4, Width=1920@4, Height=1080</property>
<property name="Item3">@4, X=3840@3, Y=394@4, Width=1600@3, Height=900</property></property>
<property name="AllowGlyphSkinning">false</property><property name="Panels" iskey="true" value="6">
<property name="Item1" isnull="true" iskey="true"><property name="FloatVertical">false</property>
<property name="DockVertical">Default</property><property name="FloatLocation">@1, X=0@1, Y=0</property>
<property name="Dock">Fill</property><property name="Header" /><property name="Footer" />
<property name="Tabbed">false</property><property name="XtraZIndex">0</property>
<property name="DockedAsTabbedDocument">false</property><property name="TabsPosition">Bottom</property>
<property name="TabsScroll">false</property><property name="ImageIndex">-1</property>
<property name="XtraSavedParentID">-1</property><property name="OriginalSize">@3, Width=200@3, Height=200</
property>
<property name="XtraActiveChildID">-1</property><property name="Visibility">Visible</property>
<property name="TabText" /><property name="AllowGlyphSkinning">Default</property>
<property name="AllowCustomHeaderButtonsGlyphSkinning">Default</property><property name="Hint" />
<property name="Text">M5065_10.234.9.226</property><property name="XtraID">0</property>
<property name="ID">6533b5fe-96e9-46c2-99eb-1b9744b64e6f</property>
<property name="Options" isnull="true" iskey="true"><property name="AllowFloating">true</property>
<property name="AllowDockLeft">true</property><property name="AllowDockRight">true</property>
<property name="AllowDockTop">true</property><property name="AllowDockBottom">true</property>
<property name="AllowDockFill">true</property><property name="AllowDockAsTabbedDocument">true</property>
<property name="ResizeDirection">All</property><property name="ShowMaximizeButton">false</property>
<property name="ShowAutoHideButton">false</property><property name="ShowCloseButton">true</property>
<property name="FloatOnDbClick">false</property><property name="XtraParentID">2</property>
<property name="XtraBounds">@1, X=0@1, Y=0@3, Width=667@3, Height=499</property>
<property name="FloatSize">@3, Width=200@3, Height=200</property><property name="XtraAutoHideContainerDock
">Float</property>
<property name="MyName">DEV-EAVIS:50005-MV Console-P3</property>
<property name="MyCamViewId">698a3e1c-4bac-4eb4-bf60-145d27f4412a</property>
<property name="MyCarouselState" /><property name="SavedMdiDocument">false</property>
<property name="Count">0</property><property name="SavedTabbed">false</property>
<property name="SavedIndex">-1</property><property name="SavedDock">Float</property></property>
<property name="Item2" isnull="true" iskey="true"><property name="FloatVertical">false</property>
<property name="DockVertical">Default</property><property name="FloatLocation">@1, X=0@1, Y=0</property>
<property name="Dock">Fill</property><property name="Header" /><property name="Footer" />
<property name="Tabbed">false</property><property name="XtraZIndex">1</property>
<property name="DockedAsTabbedDocument">false</property><property name="TabsPosition">Bottom</property>
<property name="TabsScroll">false</property><property name="ImageIndex">-1</property>
<property name="XtraSavedParentID">-1</property><property name="OriginalSize">@3, Width=200@3, Height=200</
property>
<property name="XtraActiveChildID">-1</property><property name="Visibility">Visible</property>
<property name="TabText" /><property name="AllowGlyphSkinning">Default</property>
<property name="AllowCustomHeaderButtonsGlyphSkinning">Default</property><property name="Hint" />
<property name="Text">DinionIP_10.234.2.116</property><property name="XtraID">1</property>
<property name="ID">85d48554-dc75-4ffe-9b4d-016b2b6ab9a1</property><property name="Options" isnull="true"
iskey="true">
```

```

<property name="AllowFloating">true</property><property name="AllowDockLeft">true</property>
<property name="AllowDockRight">true</property><property name="AllowDockTop">true</property>
<property name="AllowDockBottom">true</property><property name="AllowDockFill">true</property>
<property name="AllowDockAsTabbedDocument">true</property><property name="ResizeDirection">All</property>
<property name="ShowMaximizeButton">false</property><property name="ShowAutoHideButton">false</property>
<property name="ShowCloseButton">true</property><property name="FloatOnDbClick">false</property></property>
<property name="XtraParentID">2</property><property name="XtraBounds">@3,X=667@1,Y=0@3,Width=667@3,Height=499</
property>
<property name="FloatSize">@3,Width=200@3,Height=200</property><property name="XtraAutoHideContainerDock
">Float</property>
<property name="MyName">DEV-EAVIS:50005-MV Console-P4</property>
<property name="MyCamViewId">c78bffc2-f58a-435f-90d5-2071c83cd177</property><property name="MyCarouselState" />
<property name="SavedMdiDocument">false</property><property name="Count">0</property>
<property name="SavedTabbed">false</property><property name="SavedIndex">-1</property>
<property name="SavedDock">Float</property></property><property name="Item3" isnull="true" iskey="true">
<property name="FloatVertical">false</property><property name="DockVertical">Default</property>
<property name="FloatLocation">@1,X=0@1,Y=0</property><property name="Dock">Bottom</property>
<property name="Header" /><property name="Footer" /><property name="Tabbed">false</property>
<property name="XtraZIndex">1</property><property name="DockedAsTabbedDocument">false</property>
<property name="TabsPosition">Bottom</property><property name="TabsScroll">false</property>
<property name="ImageIndex">-1</property><property name="XtraSavedParentID">-1</property>
<property name="OriginalSize">@3,Width=200@3,Height=499</property><property name="XtraActiveChildID">-1</
property>
<property name="Visibility">Visible</property><property name="TabText" />
<property name="AllowGlyphSkinning">Default</property><property name="AllowCustomHeaderButtonsGlyphSkinning
">Default</property>
<property name="Hint" /><property name="Text">panelContainer1</property><property name="XtraID">2</property>
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```

```

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```

POST /site/sharedViews

A **POST** request creates a new shared view.

```
curl https://localhost/api/site/sharedViews
-X POST
-H "Content-Type: application/json"
--data-binary "@.\AddSharedViewBody.txt"
```

Example of AddSharedViewBody.txt:

```
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  "name": "NewSharedViewName",
  "viewData": "<MultiView ID=\\\"MV Console\\\" CameraViewName=\\\"MyFourCamera\\\"><ToolBar><TitleBar visible=\\\"True\\\" /
>
  <Decorations visible=\\\"False\\\" /><Timeline visible=\\\"False\\\" /><SynchronizeTimes enabled=\\\"False\\\" />
  <Fullscreen disabled=\\\"True\\\" /></ToolBar><DockManager><XtraSerializer version=\\\"1.0\\\" application=
\\\"CDockManager\\\">
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property>
  <property name=\\\"DockingOptions\\\" isnull=\\\"true\\\" iskey=\\\"true\\\"><property name=
\\\"AutoHidePanelVerticalTextOrientation\\\">
```

```

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```

```

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```



```

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```

```

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}

```

PUT /site/sharedViews/NewSharedViewName

A PUT request modifies a shared view.

```

curl https://localhost/api/site/sharedViews/NewSharedViewName
-X PUT
-H "Content-Type: application/json"
--data-binary "@.\UpdateSharedViewBody.txt"

```

Example of UpdateSharedViewBody.txt:

```

{
  "name": "ModifiedSharedViewName",
  "viewData": "<MultiView ID=\\"MV Console\\" CameraViewName=\\"MyFourCamera\\"><ToolBar><TitleBar visible=\\"True\\" /
  >
  <Decorations visible=\\"False\\" /><Timeline visible=\\"False\\" /><SynchronizeTimes enabled=\\"False\\" />
  <Fullscreen disabled=\\"True\\" /></ToolBar><DockManager><XtraSerializer version=\\"1.0\\" application=
  \\"CDockManager\\">
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```

```

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```

```

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DELETE /site/sharedViews/{shared_view_name}

A **DELETE** request deletes a shared view (*shared_view_name*).

```

curl https://localhost/api/site/sharedViews/ModifiedSharedViewName
-X DELETE

```

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