

Senstar Symphony 8 Mobile Bridge API Developer Guide

Version 8

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Overview

The Senstar Symphony Mobile Bridge API is a RESTful API that allows you to get information (videos, alarms, etc.) from and send commands (DIO, enable or disable rules, etc.) to the Senstar Symphony Server. The Senstar Symphony Mobile Bridge API is platform agnostic and stateless, which eases horizontal scalability. It also has the benefit of being easy to test using simple tools, such as a Web browser or curl.

General server information

You can use the Senstar Symphony Mobile Bridge API to retrieve status information. Retrieve status information using GET `https://{host}:{port}/`

```
G:\vms\api\trunk>curl -k -u admin -i https://198.51.100.12/  
Enter host password for user 'admin':  
HTTP/1.1 200 OK  
Transfer-Encoding: chunked  
Content-Type: application/json; charset=utf-8  
Server: Microsoft-HTTPAPI/2.0  
Date: Tue, 15 Jan 2013 18:41:40 GMT
```

```
{  
  "ApiVersion": 5,  
  "Licensed": true,  
  "ServerAgent": "Symphony Mobile Bridge v2.1.0",  
  "ServerId": "00900B25125E",  
  "FarmId": "73422",  
  "Status": "Connected to licensed Symphony server",  
  "StatusCode": 200,  
  "TimeZone": "Eastern Standard Time",  
  "UtcOffset": -300,  
  "AlarmsLink": "\/alarms",  
  "CamerasLink": "\/cameras",  
  "DigitalIOsLink": "\/dios",  
  "RulesLink": "\/rules",  
  "PlatesLink": "\/plates",  
  "EventsPort": "8434"  
}
```

Historic alarms

You can use the Senstar Symphony Mobile Bridge API to retrieve alarms. Retrieve alarms using GET `https://{server}:{port}/alarms/`

```
G:\vms\api\trunk>curl -k -u admin -i https://198.51.100.12/alarms/
Enter host password for user 'admin':
HTTP/1.1 307 Temporary Redirect
Content-Length: 0
Expires: Wed, 16 Jan 2013 00:00:00 GMT
Location: /alarms/2013/01/15
Server: Microsoft-HTTPAPI/2.0
Date: Tue, 15 Jan 2013 18:43:43 GMT

G:\vms\api\trunk>curl -k -u admin -i https://198.51.100.12:8433/alarms/2013/01/15
Enter host password for user 'admin':
HTTP/1.1 200 OK
Transfer-Encoding: chunked
Content-Type: application/json; charset=utf-8
Server: Microsoft-HTTPAPI/2.0
Date: Tue, 15 Jan 2013 18:49:31 GMT

[{"
  "AcknowledgementLink": "\\alarms\\2013\\01\\15\\44789\\acknowledgement",
  "CameraId": "5bf9e154-fb97-45fb-bc83-e8261deaeb3c",
  "CanChange":true,
  "CommentLink": "\\alarms\\2013\\01\\15\\44789\\comment",
  "Id": "44789",
  "Link": "\\alarms\\2013\\01\\15\\44789",
  "Name": "Auto-track",
  "Thumbnaillink": "\\alarms\\2013\\01\\15\\44789\\thumbnail",
  "Timestamp": "2013-01-15T13:49:23.436-05:00",
  "ViewLink": "\\alarms\\2013\\01\\15\\44789\\view",
  "Viewed": true
},
{
  "AcknowledgementLink": "\\alarms\\2013\\01\\15\\44788\\acknowledgement",
  "CameraId": "5bf9e154-fb97-45fb-bc83-e8261deaeb3c",
  "CanChange":true,
  "CommentLink": "\\alarms\\2013\\01\\15\\44788\\comment",
  "Id": "44788",
  "Link": "\\alarms\\2013\\01\\15\\44788",
  "Name": "Auto-track",
  "Thumbnaillink": "\\alarms\\2013\\01\\15\\44788\\thumbnail",
```

```
"Timestamp": "2013-01-15T13:41:56.098-05:00",  
"ViewLink": "\/alarms\/2013\/01\/15\/44788\/view",  
"Viewed": true  
}]
```

Alarms

You can use the Senstar Symphony Mobile Bridge API to trigger alarms. Trigger alarms using PUT `https://{host}:{port}/alarms/{cameraID}/{policyId}/{alarmText1}/{alarmText2}/trigger`

```
C:\>curl -u admin -i http://10.234.8.30:8433/alarms/6/22/text1/text2/trigger -X "PUT"
--data ""
Enter host password for user 'admin':
HTTP/1.1 200 OK
Content-Length: 0
Server: Microsoft-HTTPAPI/2.0
Date: Wed, 16 Mar 2016 12:51:05 GMT
```

To add spaces to the text field, use %20 rather than a space.

Alarm comments

You can use the Senstar Symphony Mobile Bridge API to retrieve and to update alarm comments. Retrieve alarm comments using GET <https://{host}:{port}/alarms/{year}/{month}/{day}/{alarm-id}/comment>

```
g:\vms\api\trunk>curl -k -u admin -i https://198.51.100.12/alarms/2013/01/16/44880/comment
Enter host password for user 'admin':
HTTP/1.1 200 OK
Transfer-Encoding: chunked
Content-Type: text/plain; charset=utf-8
Server: Microsoft-HTTPAPI/2.0
Date: Wed, 16 Jan 2013 16:16:31 GMT
```

Update alarm comments using PUT <https://{host}:{port}/alarms/{year}/{month}/{day}/{alarm-id}/comment>.

```
g:\vms\api\trunk>curl -k -u admin -i https://198.51.100.12/alarms/2013/01/16/44880/comment
-X
"PUT" --data "My alarm comment"
Enter host password for user 'admin':
HTTP/1.1 202 Accepted
Content-Length: 0
Server: Microsoft-HTTPAPI/2.0
Date: Wed, 16 Jan 2013 16:22:42 GMT

g:\vms\api\trunk>curl -k -u admin -i https://198.51.100.12/alarms/2013/01/16/44880/comment
Enter host password for user 'admin':
HTTP/1.1 200 OK
Transfer-Encoding: chunked
Content-Type: text/plain; charset=utf-8
Server: Microsoft-HTTPAPI/2.0
Date: Wed, 16 Jan 2013 16:22:48 GMT
```

Automatic License Plate Recognition

You can use the Senstar Symphony Mobile Bridge API to retrieve and to update information from the Automatic License Plate Recognition video analytic. Retrieve detected license plates using GET `https://{server}:{port}/plates/today`

```
G:\vms\api\trunk>curl -k -u admin -i https://198.51.100.12:8433/plates/today
Enter host password for user 'admin':
HTTP/1.1 307 Temporary Redirect
Content-Length: 0
Expires: Wed, 16 Jan 2013 00:00:00 GMT
Location: /plates/2013/01/15
Server: Microsoft-HTTPAPI/2.0
Date: Tue, 15 Jan 2013 18:43:43 GMT

G:\vms\api\trunk>curl -k -u admin -i https://198.51.100.12:8433/plates/2013/01/15
Enter host password for user 'admin':
HTTP/1.1 200 OK
Transfer-Encoding: chunked
Content-Type: application/json; charset=utf-8
Server: Microsoft-HTTPAPI/2.0
Date: Tue, 15 Jan 2013 18:49:31 GMT

[{"
  "BackColor":16777215,
  "CameraId":"8d89dfa6-0c93-4cbc-bd49-2d1432bc39a1",
  "Confidence":100,
  "ForeColor":0,
  "PlateNumber":"ABC 123",
  "PlateType":100,
  "Region":"Unknown Region",
  "TimestampEnd":"2013-01-15T13:00:01.000-04:00",
  "TimestampStart":"2013-01-15T13:00:00.000-04:00"
}]
```

Retrieve a list of license plates using GET `https://{host}:{port}/plates/`

```
E:\>curl -k -u admin -i https://localhost:8433/plates/
Enter host password for user 'admin':
HTTP/1.1 200 OK
Transfer-Encoding: chunked
Content-Type: application/json; charset=utf-8
Server: Microsoft-HTTPAPI/2.0
Date: Mon, 05 Oct 2015 19:44:29 GMT
```

```
[{
  "BackColor": 0,
  "Description": "Test",
  "ForeColor": 0,
  "Id": "75d91d4c-3982-4ebf-98fe-00121e273595",
  "PlateNumber": "123455",
  "PlateType": 3
},
{
  "BackColor": 0,
  "Description": "My car",
  "ForeColor": 0,
  "Id": "6b567e86-9da6-4c97-84fc-cd7d756c45d9",
  "PlateNumber": "BVVW246",
  "PlateType": 3
}]
```

Add a license plate using PUT

`https://{host}:{port}/plates/{plateId}/{plateNumber}/{description}/{regionId}`

```
E:\>curl -k -u admin -X "PUT" -d "" -i https://localhost:8433/plates/6b567e86-9da6-4c97-84fc-cd7d756c45d9/BVVW246/My%20car/3
Enter host password for user 'admin':
HTTP/1.1 200 OK
Content-Length: 0
Server: Microsoft-HTTPAPI/2.0
Date: Mon, 05 Oct 2015 19:47:17 GMT
```

Delete a license plate using DELETE `https://{host}:{port}/plates/{plateId}`

```
E:\>curl -k -u admin -X "DELETE" -i https://localhost:8433/plates/6b567e86-9da6-4c97-84fc-cd7d756c45d9
Enter host password for user 'admin':
HTTP/1.1 200 OK
Content-Length: 0
Server: Microsoft-HTTPAPI/2.0
```

Retrieve the license plate lists using GET `https://{host}:{port}/plates/list`

```
E:\>curl -k -u admin -i https://localhost:8433/plates/list
Enter host password for user 'admin':
HTTP/1.1 200 OK
```

```
Transfer-Encoding: chunked
Content-Type: application/json; charset=utf-8
Server: Microsoft-HTTPAPI/2.0
Date: Mon, 05 Oct 2015 19:53:12 GMT
```

```
[{
  "Id": 8,
  "Name": "Developers"
},
{
  "Id": 1,
  "Name": "Employee"
}]
```

Add a license plate list using PUT <https://{host}:{port}/plates/list/{name}>

```
E:\>curl -k -u admin -X "PUT" -d "" -i https://localhost:8433/plates/list/Developers
Enter host password for user 'admin':
HTTP/1.1 200 OK
Transfer-Encoding: chunked
Content-Type: application/json; charset=utf-8
Server: Microsoft-HTTPAPI/2.0
Date: Mon, 05 Oct 2015 19:55:10 GMT
```

Update a plate list or add a plate list with a specific ID using PUT
<https://{host}:{port}/plates/list/{listId}/{name}>

```
E:\>curl -k -u admin -X "PUT" -d "" -i
https://localhost:8433/plates/list/4/Cool%20Developers
Enter host password for user 'admin':
HTTP/1.1 200 OK
Content-Length: 0
Server: Microsoft-HTTPAPI/2.0
Date: Mon, 05 Oct 2015 19:56:31 GMT
```

Delete a plate list using DELETE <https://{host}:{port}/plates/list/{listId}>

```
E:\>curl -k -u admin -X "DELETE" -i https://localhost:8433/plates/list/4
Enter host password for user 'admin':
HTTP/1.1 200 OK
Content-Length: 0
Server: Microsoft-HTTPAPI/2.0
Date: Mon, 05 Oct 2015 22:00:54 GMT
```

Retrieve the lists associated to a plate using GET <https://{host}:{port}/plates/list/{plateId}>

```
E:\>curl -k -u admin -i https://localhost:8433/plates/list/75d91d4c-3982-4ebf-98fe-00121e273595
Enter host password for user 'admin':
HTTP/1.1 200 OK
Transfer-Encoding: chunked
Content-Type: application/json; charset=utf-8
Server: Microsoft-HTTPAPI/2.0
Date: Mon, 05 Oct 2015 22:06:42 GMT

[{"EndTime": 0,
  "Id": 1,
  "Name": "Employee",
  "StartTime": 0
}]
```

Assign a plate to a list or update the start/end time using PUT
<https://{host}:{port}/plates/list/{plateId}/{listId}/{startDate}/{endDate}>

The startDate and endDate are UTC dates in seconds.

```
E:\>curl -k -u admin -X "PUT" -d "" -i https://localhost:8433/plates/
list/75d91d4c-3982-4ebf-98fe-00121e273595/9/0/0
Enter host password for user 'admin':
HTTP/1.1 200 OK
Content-Length: 0
Server: Microsoft-HTTPAPI/2.0
Date: Mon, 05 Oct 2015 22:10:35 GMT
```

Remove a license plate from a list using DELETE <https://{host}:{port}/plates/list/{plateId}/{listId}>

```
E:\>curl -k -u admin -X "DELETE" -i https://localhost:8433/plates/
list/75d91d4c-3982-4ebf-98fe-00121e273595/9
Enter host password for user 'admin':
HTTP/1.1 200 OK
Content-Length: 0
Server: Microsoft-HTTPAPI/2.0
Date: Mon, 05 Oct 2015 22:12:17 GMT
```

Retrieve a list of plate regions using GET <https://{host}:{port}/plates/regions>

```
E:\>curl -k -u admin -i https://localhost:8433/plates/regions
Enter host password for user 'admin':
```

```
HTTP/1.1 200 OK
Transfer-Encoding: chunked
Content-Type: application/json; charset=utf-8
Server: Microsoft-HTTPAPI/2.0
Date: Tue, 06 Oct 2015 11:31:57 GMT
```

```
[{
  "Id": 613,
  "Name": "Aguascalientes"
},
{
  "Id": 33,
  "Name": "Alabama"
},
{
  "Id": 34,
  "Name": "Alaska"
}
...
{
  "Id": 642,
  "Name": "Yucatan"
},
{
  "Id": 72,
  "Name": "Yukon"
},
{
  "Id": 643,
  "Name": "Zacatecas"
}]
```

Cameras

You can use the Senstar Symphony Mobile Bridge API to retrieve and to update camera information. Retrieve a list of cameras using GET <https://{host}:{port}/cameras/>

```
g:\vms\api\trunk>curl -k -u admin -i https://198.51.100.12:8433/cameras/
Enter host password for user 'admin':
HTTP/1.1 200 OK
Transfer-Encoding: chunked
Content-Type: application/json; charset=utf-8
Server: Microsoft-HTTPAPI/2.0
Date: Wed, 16 Jan 2013 16:28:12 GMT

[{"HistFootageLink": "\\cameras\\8d89dfa6-0c93-4cbc-bd49-2d1432bc39a1\\footage\\{year}\\{month}\\{day}\\{hour}\\{minute}\\{second}\\{ms}",
  "Id": "8d89dfa6-0c93-4cbc-bd49-2d1432bc39a1",
  "Link": "\\cameras\\8d89dfa6-0c93-4cbc-bd49-2d1432bc39a1",
  "LiveFootageLink": "\\cameras\\8d89dfa6-0c93-4cbc-bd49-2d1432bc39a1\\footage\\live",
  "LocationLink": null,
  "LocationPresetsLink": null,
  "Name": "Backdoor",
  "ThumbnailLink": "\\cameras\\8d89dfa6-0c93-4cbc-bd49-2d1432bc39a1\\thumbnail"
},
{
  "HistFootageLink": "\\cameras\\5bf9e154-fb97-45fb-bc83-e8261deaeb3c\\footage\\{year}\\{month}\\{day}\\{hour}\\{minute}\\{second}\\{ms}",
  "Id": "5bf9e154-fb97-45fb-bc83-e8261deaeb3c",
  "Link": "\\cameras\\5bf9e154-fb97-45fb-bc83-e8261deaeb3c",
  "LiveFootageLink": "\\cameras\\5bf9e154-fb97-45fb-bc83-e8261deaeb3c\\footage\\live",
  "LocationLink": "\\cameras\\5bf9e154-fb97-45fb-bc83-e8261deaeb3c\\location",
  "LocationPresetsLink": "\\cameras\\5bf9e154-fb97-45fb-bc83-e8261deaeb3c\\locationPresets",
  "Name": "Front PTZ",
  "ThumbnailLink": "\\cameras\\5bf9e154-fb97-45fb-bc83-e8261deaeb3c\\thumbnail"
}]
```

Thumbnail images

You can use the Senstar Symphony Mobile Bridge API to retrieve thumbnail images from cameras. Retrieve a thumbnail image using GET `https://{host}:{port}/cameras/{camera-id}/thumbnail`

```
g:\vms\api\trunk>curl -k -u admin -v https://198.51.100.12:8433/cameras/8d89dfa6-0c93-4cbc-
bd49-2d1432bc39a1/thumbnail -o thumbnail.jpg
Enter host password for user 'admin':
* About to connect() to 198.51.100.12 port 8433 (#0)
*   Trying 216.59.235.165...   % Total    % Received % Xferd Average Speed      Time      Time
Time Current
Dload Upload    Total  Spent    Left Speed
0    0    0    0    0    0    0    0  --:--:--  --:--:--  --:--:--    0connected
* Connected to 198.51.100.12 (198.51.100.12) port 8433 (#0)
* Server auth using Basic with user 'admin'
> GET /cameras/8d89dfa6-0c93-4cbc-bd49-2d1432bc39a1/thumbnail HTTP/1.1
> Authorization: Basic YWRtaW46QWRtaW4=
> User-Agent: curl/7.21.0 (amd64-pc-win32) libcurl/7.21.0 OpenSSL/0.9.8o zlib/1.2.3
> Host: 198.51.100.12:8433
> Accept: */*
>
0    0    0    0    0    0    0    0  --:--:--  --:--:--  --:--:--    0< HTTP/1.1 200
OK
< Cache-Control: private, no-cache, no-store
< Transfer-Encoding: chunked
< Content-Type: image/jpeg
< Last-Modified: Wed, 16 Jan 2013 16:44:57 GMT
< ETag: "2013-01-16T16:44:57.1270000+00:00"
< Server: Microsoft-HTTPAPI/2.0
< Date: Wed, 16 Jan 2013 16:44:57 GMT
<
{ [data not shown]
100 44287    0 44287    0    0 31210    0  --:--:--  0:00:01  --:--:--  31907* Connection
#0 to
host 198.51.100.12 left intact
* Closing connection #0
```

Live video

You can use the Senstar Symphony Mobile Bridge API to retrieve live video from a camera. Get a live video stream using GET `https://{host}:{port}/cameras/{camera-id}`

```
g:\vms\api\trunk>curl -k -u admin -v "https://198.51.100.12:8433/cameras/
a7eaa7f9-3107-49f4-9944-f0a2aff2813a
Enter host password for user 'admin':
* Trying 198.51.100.12...
* Connected to 198.51.100.12 (198.51.100.12) port 8433 (#0)
* schannel: disabled automatic use of client certificate
* schannel: using IP address, SNI is not supported by OS.
* schannel: ALPN, offering http/1.1
* schannel: ALPN, server accepted to use http/1.1
* Server auth using Basic with user 'admin'
> GET /cameras/a7eaa7f9-3107-49f4-9944-f0a2aff2813a HTTP/1.1
> Host: 198.51.100.12:8433
> Authorization: Basic YWRtaW46YWRtaW4=
> User-Agent: curl/7.79.1
> Accept: */*
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Transfer-Encoding: chunked
< Content-Type: application/json; charset=utf-8
< Server: Microsoft-HTTPAPI/2.0
< Date: Thu, 28 Apr 2022 17:05:00 GMT
<
{"AudioSupported":true,"DeviceId":1,"HistFootageLink":"\\cameras\\
/a7eaa7f9-3107-49f4-9944-f0a2aff2813a\\footage\\{year}\\{month}\\
/{day}\\{hour}\\{minute}\\{second}\\{ms}","HistRTSPLink":"rtsp:\\
/198.51.100.12:8488\\live?camera=1&user={username}
&pass={encodedPassword}&Transcode=MP4V&Decorate={decorationId}
&maxRes={resolution}&Seek={timeIntervalSince1970}&speed={speed}",
"HistTrackerLink":"127.0.0.1:50010","Id":"a7eaa7f9-3107-49f4-9944-f0a2aff2813a",
"Link":"\\cameras\\a7eaa7f9-3107-49f4-9944-f0a2aff2813a","LiveFootageLink":"\\
/cameras\\a7eaa7f9-3107-49f4-9944-f0a2aff2813a\\footage\\live",
"LiveRTSPLink":"rtsp:\\/198.51.100.12:8488\\
/live?camera=1&user={username}&pass={encodedPassword}&Transcode=MP4V&Decorate=
{decorationId}&maxRes={resolution}","LiveTrackerLink":"127.0.0.1:50010",
"LocationLink":null,"LocationPresetsLink":null,"Manufacturer":"Axis",
"Name":"AXISM1137","Password":"****","Port":80,"ResolutionWidth":1920,"ServerIP":
"127.0.0.1","Streams":[{"Format":"H264","Height":1080,"MulticastUri":"rtsp:\\
/198.51.100.12:554\\axis-media\\
```

```
/media.amp?streamprofile=AS0x1&camera=1","RecordFPS":20,"StreamNumber":1,  
"Width":1920}], "ThumbnailLink": "\cameras\7eaa7f9-3107-49f4-9944-f0a2aff2813a\  
/thumbnail", "Username": "root"}
```

Live JPEG

You can use the Senstar Symphony Mobile Bridge API to retrieve live JPEG images from cameras. Get a live JPEG image using GET `https://{host}:{port}/cameras/{camera-id}/footage/live` with the header `ACCEPT: image/*`.

```
g:\vms\api\trunk>curl -k -u admin -v https://198.51.100.12:8433/cameras/8d89dfa6-0c93-4cbc-
bd49-2d1432bc39a1/footage/live -H "ACCEPT: image/*" -o live.jpg
Enter host password for user 'admin':
* About to connect() to 198.51.100.12 port 8433 (#0)
*   Trying 198.51.100.12...    % Total    % Received % Xferd Average Speed      Time    Time
Time Current
Dload Upload    Total    Spent    Left Speed
0    0    0    0    0    0    0    0  --:--:--  --:--:--  --:--:--    0connected
* Connected to 198.51.100.12 (198.51.100.12) port 8433 (#0)
* Server auth using Basic with user 'admin'
> GET /cameras/8d89dfa6-0c93-4cbc-bd49-2d1432bc39a1/footage/live HTTP/1.1
> Authorization: Basic YWRtaW46QWRtaW4=
> User-Agent: curl/7.21.0 (amd64-pc-win32) libcurl/7.21.0 OpenSSL/0.9.8o zlib/1.2.3
> Host: 198.51.100.12:8433
> ACCEPT: image/*
>
< HTTP/1.1 200 OK
< Cache-Control: private, no-cache, no-store
< Transfer-Encoding: chunked
< Content-Type: image/jpeg
< Last-Modified: Wed, 16 Jan 2013 16:44:57 GMT
< ETag: "2013-01-16T16:44:57.1270000+00:00"
< Server: Microsoft-HTTPAPI/2.0
< Date: Wed, 16 Jan 2013 16:48:54 GMT
<
{ [data not shown]
100 44287    0 44287    0    0 69306    0  --:--:--  --:--:--  --:--:--  70972
* Connection #0 to host 198.51.100.12 left intact
* Closing connection #0
```

Historic JPEG

You can use the Senstar Symphony Mobile Bridge API to retrieve historic JPEG images from cameras. Retrieve historic JPEG images using GET `https://{host}:{port}/cameras/{camera-id}/footage/{year}/{month}/{day}/{hour}/{minute}/{second}/{ms}`

The time is in UTC.

```
g:\vms\api\trunk>curl -k -u admin -v https://198.51.100.12:8433/cameras/8d89dfa6-0c93-4cbc-
bd49-2d1432bc39a1/footage/2013/01/16/15/50/00/00 -H "ACCEPT: image/*" -o historic.jpg
Enter host password for user 'admin':
* About to connect() to 198.51.100.12 port 8433 (#0)
*   Trying 198.51.100.12...    % Total    % Received % Xferd Average Speed      Time    Time
Time Current
Dload Upload    Total    Spent    Left Speed
0      0  0      0    0      0      0  --:--:-- --:--:-- --:--:--      0connected
* Connected to 198.51.100.12 (198.51.100.12) port 8433 (#0)
* Server auth using Basic with user 'admin'
> GET /cameras/8d89dfa6-0c93-4cbc-bd49-2d1432bc39a1/footage/2013/01/16/15/50/00/00 HTTP/1.1
> Authorization: Basic YWRtaW46QWRtaW4=
> User-Agent: curl/7.21.0 (amd64-pc-win32) libcurl/7.21.0 OpenSSL/0.9.8o zlib/1.2.3
> Host: 198.51.100.12:8433
> ACCEPT: image/*
>
< HTTP/1.1 200 OK
< Cache-Control: private, no-cache, no-store
< Transfer-Encoding: chunked
< Content-Type: image/jpeg
< Server: Microsoft-HTTPAPI/2.0
< Date: Wed, 16 Jan 2013 16:57:00 GMT
<
{ [data not shown]
100 40745    0 40745    0    0 33479    0 --:--:-- 0:00:01 --:--:-- 33925
* Connection #0 to host 198.51.100.12 left intact
* Closing connection #0
```

PTZ locations

You can use the Senstar Symphony Mobile Bridge API to retrieve PTZ locations from cameras. Cameras with a null value for LocationPresetsLink are not PTZ cameras. Retrieve a listing of the preset PTZ locations using GET `https://{host}:{port}/cameras/{camera-id}/locationPresets`

```
G:\vms\api\trunk>curl -k -i -u admin https://198.51.100.12:8433/cameras/db14bc37-e750-463a-b780-7fe5f1a2b1f9/locationPresets
Enter host password for user 'admin':
HTTP/1.1 200 OK
Transfer-Encoding: chunked
Content-Type: application/json; charset=utf-8
Server: Microsoft-HTTPAPI/2.0
Date: Wed, 16 Jan 2013 17:53:58 GMT

[{"
  "LocationLink": "\/cameras\/db14bc37-e750-463a-b780-7fe5f1a2b1f9\/location",
  "Name": "Location",
  "X": 1,
  "Y": 0,
  "Z": 1
}]
```

PTZ to absolute location

You can use the Senstar Symphony Mobile Bridge API to move a PTZ camera to an absolute location. To move the camera to a preset location, use the coordinates from the PTZ locations response. Move a PTZ camera to an absolute position using PUT `https://{host}:{port}/cameras/{camera-id}/location`

```
G:\vms\api\trunk>more ptz-1-2-3.json
```

```
{
  "X": 1,
  "Y": 2,
  "Z": 3
}
```

```
G:\vms\api\trunk>curl -k -v -u admin https://198.51.100.12:8433/cameras/db14bc37-e750-463a-b780-7fe5f1a2b1f9/location -X PUT -H "Content-Type: application/json" -d @ptz-1-2-3.json
```

```
Enter host password for user 'admin':
```

```
* About to connect() to 198.51.100.12 port 8433 (#0)
```

```
* Trying 198.51.100.12... connected
```

```
* Connected to 198.51.100.12 (198.51.100.12) port 8433 (#0)
```

```
* Server auth using Basic with user 'admin'
```

```
> PUT /cameras/db14bc37-e750-463a-b780-7fe5f1a2b1f9/location HTTP/1.1
```

```
> Authorization: Basic YWRtaW46QWRtaW4=
```

```
> User-Agent: curl/7.21.0 (amd64-pc-win32) libcurl/7.21.0 OpenSSL/0.9.8o zlib/1.2.3
```

```
> Host: 198.51.100.12:8433
```

```
> Accept: */*
```

```
> Content-Type: application/json
```

```
> Content-Length: 25
```

```
>
```

```
< HTTP/1.1 202 Accepted
```

```
< Content-Length: 0
```

```
< Server: Microsoft-HTTPAPI/2.0
```

```
< Date: Wed, 16 Jan 2013 18:40:49 GMT
```

```
<
```

```
* Connection #0 to host 198.51.100.12 left intact
```

```
* Closing connection #0
```

PTZ to relative location

You can use the Senstar Symphony Mobile Bridge API to move a PTZ camera to a relative location. You can omit x, y, or z values to assume a value of 0. Move a PTZ camera to a relative position using POST `https://{host}:{port}/cameras/{camera-id}/location`

```
G:\vms\api\trunk>more ptz-1-2-3.json
```

```
{  
  "X": 1,  
  "Y": 2,  
  "Z": 3  
}
```

```
G:\vms\api\trunk>curl -k -v -u admin https://198.51.100.12:8433/cameras/db14bc37-e750-463a-b780-7fe5f1a2b1f9/location -X POST -H "Content-Type: application/json" -d @ptz-1-2-3.json
```

```
Enter host password for user 'admin':
```

```
* About to connect() to 198.51.100.12 port 8433 (#0)
```

```
*   Trying 198.51.100.12... connected
```

```
* Connected to 198.51.100.12 (198.51.100.12) port 8433 (#0)
```

```
* Server auth using Basic with user 'admin'
```

```
> POST /cameras/db14bc37-e750-463a-b780-7fe5f1a2b1f9/location HTTP/1.1
```

```
> Authorization: Basic YWRtaW46QWRtaW4=
```

```
> User-Agent: curl/7.21.0 (amd64-pc-win32) libcurl/7.21.0 OpenSSL/0.9.8o zlib/1.2.3
```

```
> Host: 198.51.100.12:8433
```

```
> Accept: */*
```

```
> Content-Type: application/json
```

```
> Content-Length: 25
```

```
>
```

```
< HTTP/1.1 202 Accepted
```

```
< Content-Length: 0
```

```
< Server: Microsoft-HTTPAPI/2.0
```

```
< Date: Wed, 16 Jan 2013 18:41:57 GMT
```

```
<
```

```
* Connection #0 to host 198.51.100.12 left intact
```

```
* Closing connection #0
```

Digital I/O

You can use the Senstar Symphony Mobile Bridge API to retrieve a list of digital inputs and outputs, and to activate or deactivate the outputs. Retrieve a list of digital inputs and outputs using GET

`https://{server}:{port}/dios/`

```
G:\vms\api\trunk>curl -k -i -u admin https://198.51.100.12:8433/dios/
Enter host password for user 'admin':
HTTP/1.1 200
Transfer-Encoding: chunked
Content-Type: application/json; charset=utf-8
Server: Microsoft-HTTPAPI/2.0
Date: Wed, 16 Jan 2013 19:23:48 GMT
```

```
[{
  "Activated": false,
  "CanChange": false,
  "Direction": "in",
  "DeviceId": "20e72f85-f950-4aed-84d0-3f6dde87e6da",
  "Id": "259796ce-1a4e-4a36-87c3-6d668f86fcc0",
  "Link": "\\dios\\259796ce-1a4e-4a36-87c3-6d668f86fcc0",
  "Name": "Input 1"
}, {
  "Activated": false,
  "CanChange": true,
  "Direction": "out",
  "DeviceId": "20e72f85-f950-4aed-84d0-3f6dde87e6da",
  "Id": "3a74c6e5-ddab-442f-9de1-e777d4d1e39c",
  "Link": "\\dios\\3a74c6e5-ddab-442f-9de1-e777d4d1e39c",
  "Name": "Output 1"
}]
```

Activate a digital output using POST `https://{server}:{port}/dios/{digital-output-id}/Activate`

```
G:\vms\api\trunk>curl -k -i -u admin https://198.51.100.12:8433/dios/3a74c6e5-ddab-442f-9de1-e777d4d1e39c/Activate -X "POST" -d ""
Enter host password for user 'admin':
HTTP/1.1 202
Content-Length: 0
Server: Microsoft-HTTPAPI/2.0
Date: Wed, 16 Jan 2013 19:28:28 GMT
```

Deactivate a digital output using POST `https://{server}:{port}/dios/{digital-output-id}/Deactivate`

```
G:\vms\api\trunk>curl -k -i -u admin https://198.51.100.12:8433/dios/3a74c6e5-ddab-442f-9de1-e777d4d1e39c/deactivate -X "POST" -d ""
Enter host password for user 'admin':
HTTP/1.1 202
Content-Length: 0
Server: Microsoft-HTTPAPI/2.0
Date: Wed, 16 Jan 2013 19:30:24 GMT
```

Integrations

You can use the Senstar Symphony Mobile Bridge API to retrieve a list of the integration devices that you add to the Senstar Symphony Server in the Integrations tab (for example, Senstar network devices and ADAM devices), to retrieve the status of an integration device, and to send commands to the nodes of an integration device.

Each integration device includes a list of nodes. Each node includes state information that identifies the state type and category of the node (for example, online, offline, or alarm).

Retrieve a list of integration devices using GET `https://{server}:{port}/integrations/`

Retrieve a specific integration device using GET `https://{server}:{port}/integrations/{device-id}`

Send a command to a node of an integration device using POST `https://{server}:{port}/integrations/{device-id}/{node-id}/{command}`



Node IDs can include reserved characters. Encode reserved characters in the node ID when you include the node ID in a URL. For example, encode the node ID 1;S3 as 1%3BS3.

The command determines the action that the node performs.

Command	Description
MaskCommandId	Mask the zone. To mask the zone for a limited time, append the duration in minutes to the URL. To mask the zone indefinitely, omit the duration.
UnMaskCommandId	Unmask the zone.
Activate	Activate the output.
Deactivate	Deactivate the output.

Action	Method	URL
List all integration devices	GET	<code>/integrations/</code>
Retrieve an integration device	GET	<code>/integrations/{device-id}</code>
Mask a zone for a limited time	POST	<code>/integrations/{device-id}/{node-id}/MaskCommandId/{minutes}</code>
Mask a zone indefinitely	POST	<code>/integrations/{device-id}/{node-id}/MaskCommandId</code>
Unmask a zone	POST	<code>/integrations/{device-id}/{node-id}/UnMaskCommandId</code>
Activate an output	POST	<code>/integrations/{device-id}/{node-id}/Activate</code>
Deactivate an output	POST	<code>/integrations/{device-id}/{node-id}/Deactivate</code>

Mask a zone for 60 minutes using POST `https://{server}:{port}/integrations/{device-id}/{node-id}/MaskCommandId/{minutes}`

```
G:\vms\api\trunk>curl -k -i -u admin -X POST -H "Content-Length: 0"
https://198.51.100.12:8433/
integrations/100000/1%3BS3/MaskCommandId/60
Enter host password for user 'admin':
```

Unmask a zone using POST `https://{server}:{port}/integrations/{device-id}/{node-id}/UnMaskCommandId`

```
G:\vms\api\trunk>curl -k -i -u admin -X POST -H "Content-Length: 0"  
https://198.51.100.12:8433/  
integrations/100000/1%3BS3/UnMaskCommandId  
Enter host password for user 'admin':
```

Rules

You can use the Senstar Symphony Mobile Bridge API to retrieve a list of rules and to activate or deactivate those rules. Retrieve a list of rules using GET <https://{server}:{port}/rules/>

```
F:\branches\vms_api\src>curl -k -L -u admin:admin -i https://198.51.100.12:8433/rules/
HTTP/1.1 200
Transfer-Encoding: chunked
Content-Type: application/json; charset=utf-8
Server: Microsoft-HTTPAPI/2.0
Date: Thu, 14 Nov 2013 19:26:47 GMT

[{"Activated":true,
"CanChange":true,
"Id":"3",
"Link":"\\/rules\\/3",
"Name":
"Lost Camera Connection"
},
{
"Activated":true,
"CanChange":true,
"Id":"6",
"Link":"\\/rules\\/6",
"Name":"Camera Tamper"
}]
```

Activate a rule using POST <https://{server}:{port}/rules/{rule-id}/Activate>

```
F:\branches\vms_api\src>curl -k -L -u admin:admin -i https://198.51.100.12:8433/rules/3/
Activate -X "POST" -d ""
HTTP/1.1 202
Content-Length: 0
Server: Microsoft-HTTPAPI/2.0
Date: Thu, 14 Nov 2013 19:29:21 GMT
```

Deactivate a rule using POST <https://{server}:{port}/rules/{rule-id}/Deactivate>

```
F:\branches\vms_api\src>curl -k -L -u admin:admin -i https://198.51.100.12:8433/rules/3/
Deactivate -X "POST" -d ""
HTTP/1.1 202
Content-Length: 0
Server: Microsoft-HTTPAPI/2.0
```

Date: Thu, 14 Nov 2013 19:29:50 GMT

Events

You can connect a TCP socket to the events port to stream live events. Authenticate using {"Basic":"username:password"}, where username:password is the username and password separated by a colon and encoded in Base64.

```
{"Basic":"YWRtaW46YWRtaW4="}
```

Subscribe to an event using {"Command":"Subscribe","Type":"type","IDs":"id"}, where type is either Camera or Rule, and id is the identifier of the camera or rule.

```
{"Command":"Subscribe","Type":"Rule","IDs":"2611"}    --subscribes to events from rule 2611
```

```
{"Command":"Subscribe","Type":"Rule","IDs":"LPR"}    --subscribes to events from the
Automatic
License Plate Recognition video analytic
```

```
{"Command":"Subscribe","Type":"Camera","IDs":"75782c10-60f7-4d42-b21b-cf6b1f6bbb67"} --
subscribes to the events from camera with the ID 75782c10-60f7-4d42-b21b-cf6b1f6bbb67
```

Unsubscribe from an event using {"Command":"Unsubscribe","Type":"type","IDs":"id"}, where type is either Camera or Rule, and id is the identifier of the camera or rule.

```
{"Command":"Unsubscribe","Type":"Rule","IDs":"2611"}    --unsubscribes from the events
from rule
```

```
{"Command":"Unsubscribe","Type":"Rule","IDs":"LPR"} --unsubscribes from events from
the Automatic License Plate Recognition video analytic
```

```
{"Command":"Unsubscribe","Type":"Camera","IDs":"75782c10-60f7-4d42-b21b-cf6b1f6bbb67"} --
unsubscribes from the events from camera with the ID 75782c10-60f7-4d42-b21b-cf6b1f6bbb67
```

After any authentication, subscribe, or unsubscribe request, you receive a string message and an HTTP status code.

```
{"Message":"Ok","ResponseCode":200}
```

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