Synology
Surveillance Station Web API

ver: 2.4

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1. Overview

Surveillance Station provides a programmable interface allowing the 3rd party integrator/installer to develop application that is highly integrated with Surveillance Station. This interface is called “Surveillance Station Web API”, refer to Figure 1-1 for the entire structure:

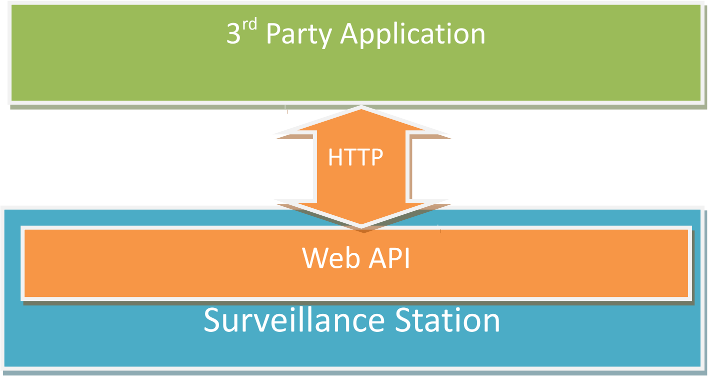

Figure 1-1 Surveillance Station Web API architecture

Surveillance Station Web API is based on HTTP protocol, including functions like camera configuration, PTZ control, live view streaming, video playback, and … etc.

2. Surveillance Station Web API Specification

2.1 Concept

Surveillance Station Web API provides a set of API interface allowing the 3rd party application to interact with Surveillance Station via HTTP Request/Response call.

2.1.1 API Definition

Every API will define the following items:

- **Name**
  It will go after "SYNO.XXX.YYY". **XXX** will represent the application name, **YYY** will represent the feature category. For example, **SYNO.SurveillanceStation.Camera**, **SurveillanceStation** means the API is provided by the Surveillance Station, **Camera** means this API will retrieve the camera configurations.

- **URL path**
  Surveillance Station Web API does not preserve a constant URL for every API. Instead, 3rd party applications need to use the command **SYNO.API.Info** to retrieve every API's URL path. **SYNO.API.Info** is the only API with constant URL, and it does not need authorization, its path is /webapi/query.cgi

- **Method**
  Every method is unique in its own API, and it has to be defined when you use the API. For example, **SYNO.SurveillanceStation.Camera API**, call the method **GetInfo** will retrieve some camera configurations.

- **Version**
  Surveillance Station Web API will require you designate an API version to ensure the result is within the expectation. SYNO.API.Info will return every API's supported versions. "Not supported version" will be returned if API is not supported. We may drop the support on the old API version, make sure you keep this in mind.

2.1.2 Operation flow

Ensure your application has followed the protocols below to interact with Surveillance Station via Surveillance Station Web API:

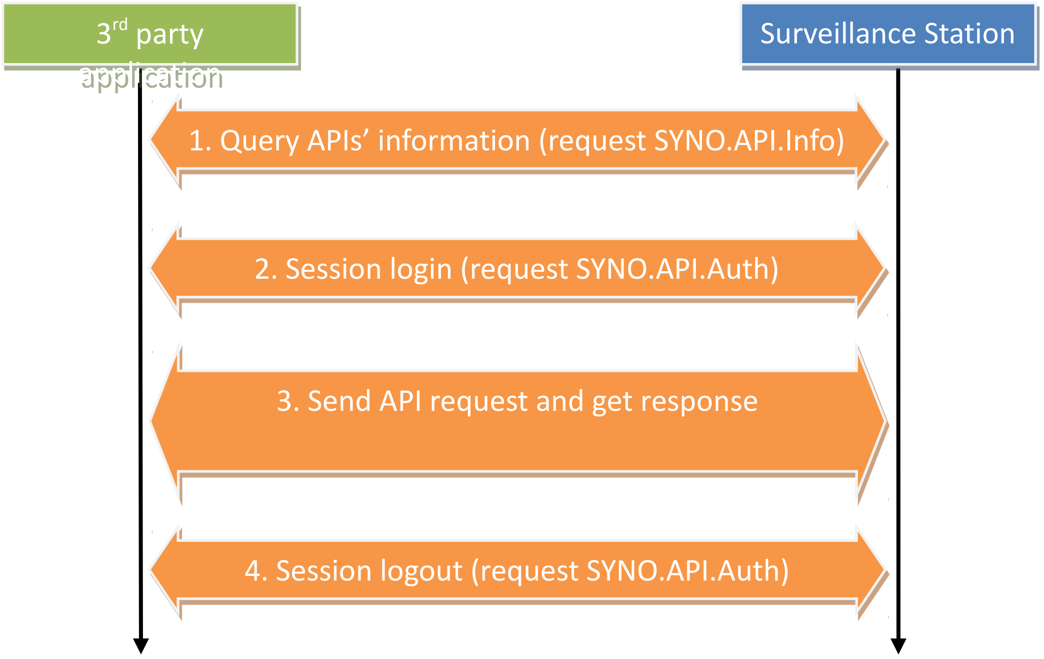
3rd party application
Surveillance Station
1. Query APIs' information (request SYNO.API.Info)
2. Session login (request SYNO.API.Auth)
3. Send API request and get response
4. Session logout (request SYNO.API.Auth)

Figure 2-1 Operation flow of Web API

Step 1. Query APIs' information

Surveillance Station Web API will require you to log in a session before sending any API request. However, the URL of SYNO.API.Auth remains unknown until you have queried it using **Query** in SYNO.API.Info. All the others' API URL, versions will also be retrieved in this step.

Step 2. Session login

After retrieving the URL for SYNO.API.Auth from step 1, your application can call **Login** method to complete the login process. A HTTP Session Cookie will be returned for authentication after you have successfully log in.

Step 3. Send API request and get response

Your application may now start calling any API requests to interact with Surveillance Station, like retrieving camera configurations, live view streaming, or search recorded clips.

Step 4. Session logout

When the communication is over, your application should call **Logout** method in SYNO.API.Auth to end the session.

2.2 Request & Response Structure

Surveillance Station Web API is based on HTTP protocol, and Request/Response as the communication structure.

2.2.1 Request

Use HTTP Get/Post to send the request with API’s URL.

Usage:

```
GET /webapi/<URL_PATH>?
api=<API>&method=<METHOD>&version=<VERSION>[&_sid=<SESSION_ID>][&<PARAM_LIST>]
```

Tag	Description
<URL_PATH>	API’s URL path
<API>	Name of the API
<METHOD >	Name of the API method
<VERSION>	The version of API
<SESSION_ID>	Optional, the designate session ID. See 2.3.2
<PARAM_LIST>	Optional, the parameters of the API Method

An Example to retrieve the camera list:

```
GET /webapi/entry.cgi?
api=SYNO.SurveillanceStation.Camera&method=List&version=1&start=10&limit=3&_sid=”Jn5dZ9aS95wh2”
```

<URL_PATH>: entry.cgi
<API>: SYNO.SurveillanceStation.Camera
<METHOD >: List
<VERSION>: 1
<PARAM_LIST>: start=10&limit=3
<SESSION_ID> : “Jn5dZ9aS95wh2”, should be quoted by “”

To get more detail of session ID, please refer to SYNO.API.Auth.

2.2.2 Response

After receiving the request, API will return the response to the 3rd party application in JSON format.

JSON Containers:

Attribute	Value	Description
success	<boolean>	Whether this request is successful or not.
data	<Result Object>	Optional. It will return data info if this request is successful, for more details please refer to chapters for each API method.
error	<Error Object>	Optional. It will return the error info if this request fails.

<Error Object> Definitions:

Attribute	Value	Description
code	<integer>	The error code defined in 2.2.3.

Example 1: Unable to retrieve the camera list when the API version is wrong

```
{
        "success": false,
        "error": {
                "code": 104
        }
}
```

Example 2: Retrieve the camera list successfully

```
{
        "success": true,
        "data": {
                “total”: 38,
                “offset”: 10,
                “cameras”: {…}
        }
}
```

2.2.3 Common API Error Code

The table shown below describes the general error codes which might be returned by all APIs. For customized error codes of each API, please refer to the corresponding API Method sections to get more details.

Error Code	Description
100	Unknown error
101	Invalid parameters
102	API does not exist
103	Method does not exist
104	This API version is not supported
105	Insufficient user privilege
106	Connection time out
107	Multiple login detected

2.3 API List

The following table is the overview of all APIs defined in this section:

API Name	Description	Section
SYNO.API.Info	Discover all API information	2.3.1
SYNO.API.Auth	Perform session login and logout	2.3.2
SYNO.SurveillanceStation.Info	Retrieve Surveillance Station-related general information	2.3.3
SYNO.SurveillanceStation.Camera	Retrieve camera-related information	2.3.4
SYNO.SurveillanceStation.PTZ	Perform camera PTZ actions	2.3.9
SYNO.SurveillanceStation.ExternalRecording	Control external recording of cameras	2.3.10
SYNO.SurveillanceStation.Event	Query event information	2.3.11
SYNO.SurveillanceStation.Device	Get information of Visual Station and CMS	2.3.14
SYNO.SurveillanceStation.Emap	Get information of defined E-Maps.	2.3.22
SYNO.SurveillanceStation.Streaming	Get video stream of live view and recorded events	2.3.23
SYNO.SurveillanceStation.AudioStream	Get audio stream of live view	2.3.39
SYNO.SurveillanceStation.VideoStream	Get video stream of live view	2.3.12
SYNO.SurveillanceStation.Notification	Get authorized token of DS.	2.3.13

Each API has its following definition:

I. Basic Information
   i. Name: The API name to replace <API> in Web API request syntax.
   ii. Availability: The version of DSM or Surveillance Station which start to support this API.
   iii. Version: The current version of this API.

II. Methods
   i. Request: The request parameters of this method.
   ii. Response: The returned data object containing response keys.

Name of a method is in upper camel case, while name of a request parameter or a response key is in lower camel case for discrimination.

III. Error Code
   Corresponding error codes to each API.

2.3.1 SYNO.API.Info

This is the starter API which has its fixed URL path /webapi/query.cgi. The 3rd party application must retrieve other APIs' information by calling "Query" method.

API Name	Version	Availability
SYNO.API.Info	1	DSM 3.1-1594

Method Name	Section	Availability
Query	2.3.1.1	1 and onward

2.3.1.1 Query method

Discover available APIs and corresponding information.

Request

Parameter	Value	Description	Availability
query	ALL, <string>	• ALL: Get information of all available APIs. • <string>: The list of <API Query Unit> to be queried concatenated by ",".	1 and onward

<API Query Unit> definition:

Notation	Value	Description	Availability
<API Query Unit>	<API Query Name>, <API Query Prefix>	Unit of API query target. It could be full name of an API, or prefix of APIs.	1 and onward
<API Query Name>	<string>	Full name of API to be queried. Must be in "SYNO.XXX.YYY" format. Ex: SYNO.API.Auth.	1 and onward
<API Query Prefix>	<string>	Prefix of APIs to be queried. Must be in "SYNO.XX." format and ended with ".". Ex: "SYNO.SurveillanceStation." will return the information of APIs with this prefix such as "SYNO.SurveillanceStation.Camera", "SYNO.SurveillanceStation.PTZ", etc.	1 and onward

Example:

Get information of SYNO.SurveillanceStation.Camera

```
GET /webapi/query.cgi?
api=SYNO.API.Info&method=Query&version=1&query=SYNO.SurveillanceStation.Camera
```

Get information of APIs with the prefix "SYNO.SurveillanceStation.".

```
GET /webapi/query.cgi?
api=SYNO.API.Info&method=Query&version=1&query=SYNO.SurveillanceStation.
```

Get information of SYNO.API.Auth and the APIs with the prefix “SYNO.SurveillanceStation.”.

```
GET /webapi/query.cgi?
api=SYNO.API.Info&method=Query&version=1&query=SYNO.API.Auth,SYNO.SurveillanceStation.
```

Response

Object contains <API Description Objects> list of the requested API(s).

<API Description Object> definition:

Key	Value	Description	Availability
key	<string>	The string of API name	1 and onward
path	<string>	The string of URL path	1 and onward
minVersion	<integer>	The minimum supported API version	1 and onward
maxVersion	<integer>	The maximum supported API version	1 and onward

Example: Return information of SYNO.API.Auth and the APIs with the prefix “SYNO.SurveillanceStation.”.

```
{
        "SYNO.API.Auth": {
                "path": "auth.cgi",
                "minVersion": 1,
                "maxVersion": 1
        },
        "SYNO.SurveillanceStation.Info": {
                "path": "entry.cgi",
                "minVersion": 1,
                "maxVersion": 1
        },
        "SYNO.SurveillanceStation.Camera": {
                "path": "entry.cgi",
                "minVersion": 1,
                "maxVersion": 2
        },
        "SYNO.SurveillanceStation.PTZ": {
                "path": "entry.cgi",
                "minVersion": 1,
                "maxVersion": 1
        },
        "SYNO.SurveillanceStation.ExternalRecording": {
                "path": "entry.cgi",
                "minVersion": 1,
                "maxVersion": 1
        },
        "SYNO.SurveillanceStation.Event": {
                "path": "entry.cgi",
                "minVersion": 1,
                "maxVersion": 1
        },
        "SYNO.SurveillanceStation.Device": {
                "path": "SurveillanceStation/device.cgi",
            "minVersion": 1,
            "maxVersion": 1
        },
        "SYNO.SurveillanceStation.Streaming": {
            "path": "SurveillanceStation/streaming.cgi",
            "minVersion": 1,
            "maxVersion": 1
        },
        "SYNO.SurveillanceStation.Emap": {
            "path": "entry.cgi",
            "minVersion": 1,
            "maxVersion": 1
        }
}
```

2.3.2 SYNO.API.Auth

API used to perform session login and logout.

API Name	Version	Availability
SYNO.API.Auth	1	DSM 4.0-2198
	2	DSM 4.0-2251

Method Name	Section	Availability
Login	2.3.2.1	1 and onward
Logout	2.3.2.2	1 and onward

2.3.2.1 Login method

Create new login session. Different accounts have different privilege settings; accounts in DSM admin group will have the highest privilege to all camera, camera groups, and Slave DiskStations.

Request

Parameter	Value	Description	Availability
account	<string>	Login account name	1 and onward
passwd	<string>	Login account password	1 and onward
session	<string>	*Optional.* Application session name. User can assign "SurveillanceStation" to this parameter to login SurveilllanceStation. If not specified, default session is DSM, and SurveillanceStation is also available.	1 and onward
format	cookie, sid	*Optional.* If format is "cookie", session ID is included in both response header and response json data. If format is "sid", se ssion ID is not included in response header, but response json data only. User can append this session ID manually to get access to any other Web API without interrupting other logins. If not specified, default login format is "cookie."	2 and onward

Example1:

```
GET /webapi/auth.cgi?
api=SYNO.API.Auth&method=Login&version=1&account=admin&passwd=123456&session=SurveillanceSta
tion
```

Example2:

```
GET /webapi/auth.cgi?
api=SYNO.API.Auth&method=Login&version=2&account=admin&passwd=123456&session=SurveillanceSta
tion&format=sid
```

Response

Name	Value	Description	Availability
sid	<string>	session ID	2 and onward

Example:

```
{
	"sid":"Jn5dZ9aS95wh2"
}
```

If login format is “cookie”, server will deliver header information including Cookie ID.

```
HTTP/1.1 200 OK
Date: Thu, 31 May 2012 09:40:43 GMT
Server: Apache/2.2.22 (Unix)
P3P: CP="IDC DSP COR ADM DEVi TAIi PSA PSD IVAi IVDi CONi HIS OUR IND CNT"
Set-Cookie: id=Jn5dZ9aS95wh2;path=/
Vary: Accept-Encoding
Content-Encoding: gzip
Content-Length: 37
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: text/plain; charset="UTF-8"
```

If the login format is “sid”, user should append the returned sid in any webapi request.

Example:

```
GET /webapi/camera.cgi?
api=SYNO.SurveillanceStation.Camera&method=List&version=1&_sid=”Jn5dZ9aS95wh2”
```

By sid format login and appending _sid to other webapi, the sessions would not affect each others and different privilege settings can be applied simultaneously.

2.3.2.2 Logout method

Destroy current login session.

Request

Name	Value	Description	Availability
session	<string>	*Optional.* Application session name. User can assign "SurveillanceStation" to this parameter to logout SurveillanceStation. If not specified, default session is DSM.	2 and onward

Example1:

```
GET /webapi/auth.cgi?
api=SYNO.API.Auth&method=Logout&version=1&session=SurveillanceStation
```

Example2:

```
GET /webapi/auth.cgi?
api=SYNO.API.Auth&method=Logout&version=2&session=SurveillanceStation&_sid=”Jn5dZ9aS95wh2”
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.2.3 API Error Code

Code	Description
100	Unknown error.
101	The account parameter is not specified.
400	Invalid password.
401	Guest or disabled account.
402	Permission denied.
403	One time password not specified.
404	One time password authenticate failed.

2.3.3 SYNO.SurveillanceStation.Info

This API provides a method to acquire Surveillance Station related information such as package version, package UI path, and the total number of camera and installed licenses.

API Name	Version	Availability
SYNO.SurveillanceStation.Info	1	Surveillance Station 6.0-2337
	4	Surveillance Station 6.3-3316
	5	Surveillance Station 7.0-3718

Method Name	Section	Availability
GetInfo	2.3.3.1	1 and onward

2.3.3.1 GetInfo method

Get Surveillance Station related general information. If the user is logged in, the complete information is provided. Otherwise only version and path information is sent.

Request

No parameter is required.

Example:

```
GET /webapi/entry.cgi?
api=SYNO.SurveillanceStation.Info&method=GetInfo&version=1
```

Response

Name	Value	Description	Availability
version	<Version Object>	Version object to represent package version of Surveillance Station. For all users.	1 and onward
path	<string>	UI path to Surveillance Station. For all users.	1 and onward
customizedPortHttp	<integer>	*Optional.* Customized port of Surveillance Station (HTTP). For Surveillance-login users only.	1 and onward
customizedPortHttps	<integer>	*Optional.* Customized port of Surveillance Station (HTTPS). For Surveillance-login users only.	1 and onward
cameraNumber	<integer>	The total number of installed cameras. For Surveillance-login users only.	1 and onward
licenseNumber	<integer>	The total number of installed licenses. For Surveillance-login users only.	1 and onward
maxCameraSupport	<integer>	Maximum number of camera support for this DS. For Surveillance-login users only.	1 and onward
serial	<string>	DS serial number	2 and onward

		For Surveillance-login users only.	
isAdmin	<boolean>	Login user is admin or not. For Surveillance-login users only.	2 and onward
userPriv	<int>	PRIV_AUTH_NO_ACCESS = 0x00 PRIV_AUTH_ADMIN = 0x01 PRIV_AUTH_MANAGER = 0x02 PRIV_AUTH_VIEWER= 0x04 PRIV_AUTH_ALL = 0xFF For Surveillance-login users only.	3 and onward
isLicenseEnough	<boolean>	Is license enough or not. For Surveillance-login users only.	3 and onward
allowSnapshot	<boolean>	If user has privilege to take snapshot or not. For Surveillance-login users only.	4 and onward
allowManualRec	<boolean>	If user has privilege to do manual recording or not. For Surveillance-login users only.	4 and onward
allowDeleteRec	<boolean>	If user has privilege to delete recordings or not. For Surveillance-login users only.	4 and onward

<Version Object> definition:

Name	Value	Description	Availability
major	<integer>	Major version of Surveillance Station.	1 and onward
minor	<integer>	Minor version of Surveillance Station.	1 and onward
build	<integer>	Build number of Surveillance Station.	1 and onward

Example:

```
{
        "version": {
                "major": 6,
                "minor": 0,
                "build": 2250
        },
        "path": "/webman/3rdparty/SurveillanceStation",
        "customizedPortHttp": 9900,
        "customizedPortHttps": 9901,
        "cameraNumber": 20,
        "licenseNumber": 30,
        "maxCameraSupport": 40,
        "serial":"A1CDE23456",
        "userPriv":1,
        "isLicenseEnough": 1,
        "allowSnapshot": true,
        "allowManualRec": true,
        "alllowDeleteRec": true
}
```

2.3.3.2 API Error Code

Code	Description

400	Execution failed.

2.3.4 SYNO.SurveillanceStation.Camera

This API provides a set of methods to acquire camera-related information and to enable/disable cameras.

API Name	Version	Availability
SYNO.SurveillanceStation.Camera	1	Surveillance Station 6.0-2337
	2	Surveillance Station 6.1
	6	Surveillance Station 6.3

Method Name	Section	Availability
List	2.3.4.1	1 and onward
GetInfo	2.3.4.2	1 and onward
ListGroup	2.3.4.3	1 and onward
GetSnapshot	2.3.4.4	1 and onward
Enable	2.3.4.5	3 and onward
Disable	2.3.4.6	3 and onward
GetCapabilityByCamId	2.3.4.7	4 and onward
MigrationEnum	2.3.4.8	4 and onward
Migrate	2.3.4.9	4 and onward
CountByCategory	2.3.4.10	4 and onward
RecountEventSize	2.3.4.11	4 and onward
SaveOptimizeParam	2.3.4.12	4 and onward
GetOccupiedSize	2.3.4.13	4 and onward
CheckCamValid	2.3.4.14	4 and onward
MigrationCancel	2.3.4.15	4 and onward
Delete	2.3.4.16	4 and onward
GetStmUrlPath	2.3.4.17	4 and onward

2.3.4.1 List method

Get the list of all cameras.

Request

Parameter	Value	Description	Availability
start	<integer>	*Optional*. The offset to be shifted in the total result. If not specified, the offset will be 0.	1 and onward
limit	<integer>	*Optional*. Number of cameras to be returned. If not specified, return cameras to the end of camera list.	1 and onward
blFromCamList	<boolean>	*Optional* Indicating if the caller is from cam list Set to be *false* if not specified.	1 and onward

blIncludeDeletedCam	<boolean>	*Optional* Indicating if deleted cameras should be listed or not set to be *false* if not specified	1 and onward
privCamType	0 … 15	Weighted sum indicated the types of the camera 0x00: NONE 0x01: LIVEVIEW 0x02: PLAYBACK 0x04: LENS 0x08: AUDIO	1 and onward
basic	<boolean>	*Optional* Indicating to show basic settings or not set to be *false* if not specified	1 and onward
streamInfo	<boolean>	*Optional* Indicating to show streaming information or not set to be *false* if not specified	1 and onward
blPrivilege	<boolean>	*Optional* Indicating if the user privilege should be checked or not set to be *false* if not specified	1 and onward
camStm	0, 1, 2	Stream number of the camera live view • 0: Live stream • 1: Recording stream • 2: Mobile stream (default value)	1 and onward

Example: List 2 cameras starting from offset 10 with all additional information.

```
http://192.168.1.1:5000/webapi/entry.cgi?
privCamType=3&version="8"&blIncludeDeletedCam=true&streamInfo=true&blPrivilege=false&start=10&api="SYNO.SurveillanceStation.Camera"&limit=2&basic=true&blFromCamList=true&camStm=1&method="List"
```

Response

Key	Value	Description	Availability
total	<integer>	The number of total installed cameras.	1 and onward
delcam	Array of <Camera List Object>	The list of deleted cameras.	1 and onward
cameras	Array of <Camera List Object>	The list of queried cameras.	1 and onward
existCamMntTypeMap	<Json>	A map indicating how each camera is mounted	4 and onward
keyUsedCnt	<integer>	Total number of cameras to be listed	4 and onward
timestamp	<string>	Time stamp of the method calling	4 and onward

<Camera List Object> definition:

Key	Value	Description	Availability
DONum	<integer>	Digital output number	4 and onward
audioCap	<boolean>	Audio capability	4 and onward
audioOut	<boolean>	Does the camera support audioOut	4 and onward

audioType	<integer>	Audio type	4 and onward
blLiveviewPriv	<boolean>	live view privilege	4 and onward
camFov	<string>	Field of view of the camera	4 and onward
camIdOnRecServer	<integer>	Camera ID on recording server	4 and onward
camLiveMode	0, 1	Determing the source of live view • 0: DS • 1: Camera	4 and onward
camMountType	0, 1, 2	How camera is mounted • 0: CEILING • 1: WALL • 2: FLOOR	4 and onward
camPath	<string>	Camera Path	4 and onward
camStatus	0 … 4	Indicating the camera status • 0: Normal • 1: Disconnected • 2: Disabled • 3: Deleted • 4: Others	4 and onward
channel_id	<string>	Camera channel id	4 and onward
deleted	<boolean>	Is deleted	4 and onward
deviceType	1 … 15	Using weighted sum to verify the device type • 0x01: CAMERA • 0x02: VIDEO_SERVER • 0x04: PTZ • 0x08: FISHEYE	4 and onward
dsIp	<string>	IP of the DS	4 and onward
dsPort	<integer>	Port of the DS	4 and onward
enabled	<boolean>	Is the camera enabled?	4 and onward
folder	<string>	Path to the recorded video	4 and onward
fps	<integer>	The fps of recording stream	4 and onward
hasCamParam	<boolean>	True if the camera has parameter capability	4 and onward
host	<string>	IP address of the camera	4 and onward
id	<integer>	Camera ID	4 and onward
isStatusUnrecognized	<boolean>	Is status of the camera unrecognized	4 and onward
is_rotated_by_date	<boolean>	Indicating if the replacing strategy "rotation_by_date" is enabled	4 and onward
is_rotated_by_space	<boolean>	Indicating if the replacing strategy "rotation_by_space" is enabled	4 and onward
model	<string>	Model name of the Camera	4 and onward
name	<string>	Name of the camera	4 and onward
ownerDsId	<integer>	The id of the owner of this camera	4 and onward
port	<integer>	Port of the camera	4 and onward
presetNum	<integer>	The maximal number of preset regions for the PTZ camera	4 and onward
privilege	1 … 15	Weighted sum indicating user privilege about this camera • 0x01: LIVE_VIEW • 0x02: PLAYBACK • 0x04: LENS • 0x08: AUDIO	4 and onward
ptzCap	<integer>	Capability of PTZ camera	4 and onward

quality	<string>	Quality of the recording stream	4 and onward
recBitrateCtrl	0, 1, 2	Indicating the bitrate of recording stream • 0: NONE • 1: VARIABLE • 2: CONSTANT	4 and onward
recCbrBitrate	<integer>	A constant indicating the bitrate	4 and onward
recStatus	<integer>	Indicating the recording method	4 and onward
resolution	<string>	Resolution of the camera	4 and onward
rotation_by_date	<integer>	The parameter for replacement strategy	4 and onward
rotation_by_space	<string>	The parameter for replacement strategy	4 and onward
rotation_option	<integer>	The recording option when rotation occurs	4 and onward
singleStream	<boolean>	Does the camera provide only single stream	4 and onward
snapshot_path	<string>	The path for obtaining snapshop	4 and onward
status	<integer>	Indicating the status of the camera • 0: ENABLED • 1: DISABLED • 2: ACCTIVATING • 3: DISABLING • 4: RESTARTING • 5: UNKNOWN	4 and onward
status_flags	<integer>	Flags of the camera status	4 and onward
stmFisheyeType	0 … 18	Type of the Fisheye camera • 0: NONE • 1: VIVOTEK • 2: MOBOTIX • 3: PIXORD • 4: AXIS • 5: DLINK • 6: GEOVISION • 7: PANASONIC • 8: BRICKCOM • 9: ACTI • 10: ACTI_KCM • 11: ACTI_I51 • 12: SAMSUNG • 13: 3S • 14: SONY • 15: ONCAMGRANDEYE • 16: MOBOTIX_Q25M • 17: A_MTK • 18: SENTRY	4 and onward
stm_info	Array of <Stream Information Object>	Information of each stream	4 and onward
tvStandard	0, 1, 2	Indicating the TV Standard • 0: NTSC • 1: PAL • 2: NONE	4 and onward
type	<integer>	Type of the camera	4 and onward
uiStmNoList	<string>	List indicating stream number of live video, recording video, mobile video respectively	4 and onward
update_time	<integer>	The last update time in timestamp	4 and onward

vendor	<string>	Vendor of the camera	4 and onward
videoCapList	Array of <Video Capability Object>	List of the video capability	4 and onward
volume_space	<string>	The size of the recorded videos of the camera	4 and onward

<Stream Information Object> definition:

Key	Value	Description	Availability
fps	<integer>	Frames per second of the stream	4 and onward
quality	<string>	An integer ranged from 1 to 5 to indicate the quality of the stream	4 and onward
resolution	<string>	Denoted as width * height	4 and onward
type	<integer>	Type of the stream	4 and onward

<Video Capability Object> definition:

Key	Value	Description	Availability
stList	Array of <string>	Streaming protocol list	4 and onward
vt	<string>	Video type list	4 and onward

Example:

```
{
  "timestamp": "1425362140",
  "cameras": [
    {
      "audioOut": false,
      "recStatus": 0,
      "ptzCap": 0,
      "audioType": 2,
      "is_rotated_by_date": false,
      "quality": "5",
      "blLiveviewPriv": true,
      "is_rotated_by_space": true,
      "privilege": 15,
      "folder": "/var/services/surveillance/ipux",
      "type": 3,
      "recBitrateCtrl": 1,
      "vendor": "iPUX",
      "stm_info": [
        {
          "resolution": "640x480",
          "quality": "5",
          "fps": 10,
          "type": 0
        },
        {
          "resolution": "640x480",
          "quality": "5",
          "fps": 10,
          "type": 1
        },
        {
          "resolution": "640x480",
          "quality": "5",
          "fps": 10,
          "type": 2
        }
      ],
      "stmFisheyeType": 0,
      "dsPort": 5000,
      "camLiveMode": 0,
      "videoCapList": [
        {
          "stList": [
            "RTSP"
          ],
          "vt": "H.264"
        },
        {
          "stList": [
            "RTSP"
          ],
          "vt": "MPEG4"
        },
        {
          "stList": [
            "HTTP"
          ],
          "vt": "MJPEG"
        }
      ],
      "camMountType": 0,
      "tvStandard": 0,
      "singleStream": false,
      "name": "ipux",
      "audioCap": true,
      "ownerDsId": 0,
      "enabled": false,
      "camIdOnRecServer": 0,
      "recCbrBitrate": 1000,
      "DONum": 0,
      "uiStmNoList": "1,1,1",
      "status_flags": 0,
      "camFov": "",
      "id": 95,
      "channel_id": "1",
      "isStatusUnrecognized": false,
      "port": 80,
      "deleted": true,
      "deviceType": 1,
      "fps": 10,
      "hasCamParam": false,
      "status": 7,
      "update_time": 1425349477,
      "snapshot_path": "&camStm=1",
      "dsIp": "",
      "rotation_option": 0,
      "host": "10.13.11.195",
      "rotation_by_date": 30,
      "presetNum": 0,
      "camStatus": 2,
      "volume_space": "0.047",
      "camPath": "cnRzcDovL2FkbWluOmFkbWluQDEwLjEzLjExLjE5NTo1NTQvbXBlZzQ=",
      "rotation_by_space": "10",
      "model": "ICS8220",
      "resolution": "640x480"
    },
    {
      "audioOut": false,
      "recStatus": 1,
      "ptzCap": 3,
      "audioType": 2,
      "is_rotated_by_date": false,
      "quality": "5",
      "blLiveviewPriv": true,
      "is_rotated_by_space": true,
      "privilege": 15,
      "folder": "/var/services/surveillance/ssss",
      "type": 2,
      "recBitrateCtrl": 1,
      "vendor": "ABUS",
      "stm_info": [
        {
          "resolution": "640x480",
          "quality": "5",
          "fps": 10,
          "type": 0
        },
        {
          "resolution": "640x480",
          "quality": "5",
          "fps": 10,
          "type": 1
        },
        {
          "resolution": "640x480",
          "quality": "5",
          "fps": 10,
          "type": 2
        }
      ],
      "stmFisheyeType": 0,
      "dsPort": 5000,
      "camLiveMode": 0,
      "videoCapList": [
        {
          "stList": [
            "RTSP"
          ],
          "vt": "MPEG4"
        },
        {
          "stList": [
            "HTTP"
          ],
          "vt": "MJPEG"
        }
      ],
      "camMountType": 0,
      "tvStandard": 0,
      "singleStream": false,
      "name": "ssss",
      "audioCap": true,
      "ownerDsId": 1,
      "enabled": true,
      "camIdOnRecServer": 24,
      "recCbrBitrate": 1000,
      "DONum": 0,
      "uiStmNoList": "1,1,1",
      "status_flags": 0,
      "camFov": "",
      "id": 96,
      "channel_id": "1",
      "isStatusUnrecognized": false,
      "port": 80,
      "deleted": false,
      "deviceType": 4,
      "fps": 10,
      "hasCamParam": true,
      "status": 0,
      "update_time": 1425360858,
      "snapshot_path":
"/webapi/_________________________________________________________entry.cgi?
api=SYNO.SurveillanceStation.Camera",
      "dsIp": "10.13.1.107",
      "rotation_option": 0,
      "host": "10.13.12.200",
      "rotation_by_date": 30,
      "presetNum": 32,
      "camStatus": 1,
      "volume_space": "0.590",
      "camPath":
"cnRzcDovL2FkbWluOnN5bm9zc0AxMC4xMy4xMi4yMDA6NTU0L3ZpZGVvLm1wNA==",
      "rotation_by_space": "10",
      "model": "TVIP20000",
      "resolution": "640x480"
    }
  ],
  "delcam": [],
  "total": 2,
  "keyUsedCnt": 1,
  "existCamMntTypeMap": "null"
```

```
}
```

2.3.4.2 GetInfo method

Get specific camera settings.

Request

Parameter	Value	Description	Availability
cameraIds	<string>	The list of <CAMERA_ID> to be queried concatenated by ",".	1 and onward
privCamType	0 … 15	*Optional*. Weighted sum indicated the types of the camera • 0x00: NONE • 0x01: LIVEVIEW • 0x02: PLAYBACK • 0x04: LENS • 0x08: AUDIO	1 and onward
blIncludeDeletedCam	<boolean>	*Optional*. Is deleted cameras included	4 and onward
basic	<boolean>	*Optional*. Is basic information included	4 and onward
streamInfo	<boolean>	*Optional*. Is stream information included	4 and onward
optimize	<boolean>	*Optional*. Is optimization information included	4 and onward
ptz	<boolean>	*Optional*. Is PTZ information included	4 and onward
eventDetection	<boolean>	*Optional*. Is event detection information included	4 and onward
deviceOutCap	<boolean>	*Optional*. Is information of device output capability included	4 and onward
fisheye	<boolean>	*Optional*. Is fisheye information included	4 and onward
camAppInfo	<boolean>	*Optional*. Is information of camera Application included	4 and onward

Example: Get camera information

```
http://192.168.1.1:5000/webapi/entry.cgi?
version="8"&cameraIds="89"&blIncludeDeletedCam=true&deviceOutCap=true&streamInfo=true&method
="GetInfo"&api="SYNO.SurveillanceStation.Camera"&ptz=true&basic=true&privCamType=3&camAppInfo=t
rue&optimize=true&fisheye=true&eventDetection=true
```

Response

Key	Value	Description	Availability

cameras	Array of <Camera Information Object>	The list of all queried cameras.	1 and onward

<Camera Information Object> definition:

Key	Value	Description	Availability
ADCap	<integer>	Audio detection capability	4 and onward
DINum	<integer>	Digital input number	4 and onward
DONum	<integer>	Digital output number	4 and onward
MDCap	<integer>	Which codec has MD capability	4 and onward
TDCap	<integer>	Tamper detection capability	4 and onward
analyticsBeep	<boolean>	Point out that beep or not	4 and onward
analyticsDirection	0, 1	• 0 : one way • 1 : two way	4 and onward
analyticsDwellTime	<integer>	Analytics dwellTime for ANALYTICS_TYPE_LOITERING	4 and onward
analyticsFrame	<boolean>	Point out that show frame or not	4 and onward
analyticsHeight	<integer>	Parameter for the live detection(no longer relevent)	4 and onward
analyticsLine	<boolean>	Point out that show line or not	4 and onward
analyticsObjSize	<integer>	Analytics objSize for ANALYTICS_TYPE_FOREIGN_OBJ	4 and onward
analyticsRegion	<string>	Analytics region	4 and onward
analyticsSens	1, 2, 3	• 1: LOW • 2: MEDIUM • 3: HIGH	4 and onward
analyticsType	1 … 9	• 1: NONE • 2: MOTION • 3: MISSING_OBJ • 4: FOREIGN_OBJ • 5: CAM_OCCLUSION • 6: FOCUS_LOST • 7: LOITERING • 8: OBJ_COUNTING • 9: VIRTUAL_FENCE	4 and onward
analyticsVirtualFence	<boolean>	Point out that show virtual fence or not	4 and onward
analyticsWidth	<integer>	Parameter for the live detection(no longer relevent)	4 and onward
audioCap	<boolean>	Audio capability	4 and onward
audioOut	<boolean>	Does the camera support audioOut	4 and onward
audioType	<integer>	Audio type	4 and onward
autoFocus	<boolean>	Auto focus	4 and onward
autoPan	<integer>	Auto pan	4 and onward
blLiveviewPriv	<boolean>	live view privilege	4 and onward
blPresetSpeed	<boolean>	Can speed pre-setted	4 and onward
camIdOnRecServer	<integer>	Camera ID on recording server	4 and onward
camLiveMode	0, 1	Determing the source of live view • 0: DS • 1: Camera	4 and onward
camMountType	0, 1,	How camera is mounted • 0: CEILING	4 and onward

	2	- 1: WALL - 2: FLOOR	
camPath	<string>	Camera Path	4 and onward
camStatus	0 … 4	Indicating the camera status - 0: Normal - 1: Disconnected - 2: Disabled - 3: Deleted - 4: Others	4 and onward
channel_id	<string>	Camera channel id	4 and onward
daybegin	<integer>	Camera optimization exposure mode day begin time	4 and onward
dayend	<integer>	Camera optimization exposure mode day end time	4 and onward
deleted	<boolean>	Is deleted	4 and onward
detailInfo	<Camera DerailInfo Object>	Detail information of the camera	4 and onward
deviceType	1 … 15	Using weighted sum to verify the device type - 0x01: CAMERA - 0x02: VIDEO_SERVER - 0x04: PTZ - 0x08: FISHEYE	4 and onward
dsIp	<string>	IP of the DS	4 and onward
dsPort	<integer>	Port of the DS	4 and onward
enabled	<boolean>	Is the camera enabled?	4 and onward
exposure_control	0 … 6	Indicating type of exposure control - 0: AUTO - 1: 50HZ - 2: 60HZ - 3: HOLD - 4: OUTDOOR - 5: NONE - 6: UNKNOWN	4 and onward
exposure_mode	0 … 4	Indicating exposure mode - 0: AUTO - 1: DAY - 2: NIGHT - 3: SCHEDULE - 4: UNKNOWN	4 and onward
feRegionList	Array of <Fisheye Region Object>	List of fisheye camera regions	4 and onward
fisheyeDispMode	<string>	The display mode of fisheye camera	4 and onward
fisheyeType	<integer>	The type of fisheye	4 and onward
folder	<string>	Path to the recorded video	4 and onward
fps	<integer>	The fps of recording stream	4 and onward
hasCamParam	<boolean>	True if the camera has parameter capability	4 and onward
host	<string>	IP address of the camera	4 and onward
id	<integer>	Camera ID	4 and onward
imageEnhancement	<Image Enhancement	The parameters of the image enhancement	4 and onward

	Object>		
isStatusUnrecognized	<boolean>	Is status of the camera unrecognized	4 and onward
is_rotated_by_date	<boolean>	Indicating if the replacing strategy "rotation_by_date" is enabled	4 and onward
is_rotated_by_space	<boolean>	Indicating if the replacing strategy "rotation_by_space" is enabled	4 and onward
model	<string>	Model name of the Camera	4 and onward
multiDI	<boolean>	Is there multi digital input	4 and onward
mute	<boolean>	Is the camera mute	4 and onward
name	<string>	Name of the camera	4 and onward
objTrack	<boolean>	Is the camera with capability of object tracking	4 and onward
osd_format	0 … 3	Indicating the format of OSD is • 0: NON • 1: DATE • 2: TIME • 3: TEXT	4 and onward
osd_position	<integer>	The position of osd	4 and onward
osd_status	<boolean>	Is the OSD on/off	4 and onward
ownerDsId	<integer>	The id of the owner of this camera	4 and onward
param_chklist	0 … 127	Weighted sum indicating the check list of parameters • 0x00: NONE • 0x01: TIME_SERVER • 0x02: VIDEO_MIRROR • 0x04: VIDEO_FLIP • 0x08: VIDEO_ROTATE • 0x10: EXPOSURE_CONTROL • 0x20: EXPOSURE_MODE • 0x40: OSD_TIMESTAMP	4 and onward
port	<integer>	Port of the camera	4 and onward
presetNum	<integer>	The maximal number of preset regions for the PTZ camera	4 and onward
ptzCap	<integer>	Capability of PTZ camera	4 and onward
ptzContinuous	<integer>	Is PTZ moving in continuous mode	4 and onward
ptzDirection	<integer>	The number of directions PTZ camera supports	4 and onward
quality	<string>	Quality of the recording stream	4 and onward
recBitrateCtrl	0, 1, 2	Indicating the bitrate of recording stream • 0: NONE • 1: VARIABLE • 2: CONSTANT	4 and onward
recCbrBitrate	<integer>	A constant indicating the bitrate	4 and onward
recStatus	<integer>	Indicating the recording method	4 and onward
resolution	<string>	Resolution of the camera	4 and onward
rotation_by_date	<integer>	The parameter for replacement strategy	4 and onward
rotation_by_space	<string>	The parameter for replacement strategy	4 and onward
rotation_option	<integer>	The recording option when rotation occurs	4 and onward
setDICap	<boolean>	Does camera have the capability of digital input	4 and onward
setDOCap	<boolean>	Does camera have the capability of digital	4 and onward

		output	
singleStream	<boolean>	Does the camera provide only single stream	4 and onward
snapshot_path	<string>	The path for obtaining snapshop	4 and onward
status	<integer>	Indicating the status of the camera • 0: ENABLED • 1: DISABLED • 2: ACCTIVATING • 3: DISABLING • 4: RESTARTING • 5: UNKNOWN	4 and onward
status_flags	<integer>	Flags of the camera status	4 and onward
stmFisheyeType	0 … 18	Type of the Fisheye camera • 0: NONE • 1: VIVOTEK • 2: MOBOTIX • 3: PIXORD • 4: AXIS • 5: DLINK • 6: GEOVISION • 7: PANASONIC • 8: BRICKCOM • 9: ACTI • 10: ACTI_KCM • 11: ACTI_I51 • 12: SAMSUNG • 13: 3S • 14: SONY • 15: ONCAMGRANDEYE • 16: MOBOTIX_Q25M • 17: A_MTK • 18: SENTRY	4 and onward
stm_info	Array of <Stream Information Object>	Information of each stream	4 and onward
time_server	<string>	The NTP server	4 and onward
tvStandard	0, 1, 2	Indicating the TV Standard • 0: NTSC • 1: PAL • 2: NONE	4 and onward
type	<integer>	Type of the camera	4 and onward
update_time	<integer>	The last update time in timestamp	4 and onward
vendor	<string>	Vendor of the camera	4 and onward
videoCapList	Array of <Video Capability Object>	List of the video capability	4 and onward
video_flip	<boolean>	Is the video flip	4 and onward
video_mirror	<boolean>	Is the video mirror	4 and onward
video_rotation	<integer>	Is the video rotated	4 and onward
volume	<integer>	Size of the volume	4 and onward
volume_space	<string>	The size of the recorded videos of the camera	4 and onward

4 and onward

<Camera DetailInfo Object> definition:

Key	Value	Description	Availability
camAudioType	0 … 5	Indicating audio type • 0: UNKNOWN • 1: PCM • 2: G711 • 3: G726 • 4: AAC • 5: AMR	4 and onward
camChannel	<string>	Channel of the output video	4 and onward
camFolder	<string>	Folder to store configuration and video	4 and onward
camFov	<string>	Field of view of the camera	4 and onward
camFps	<integer>	The fps of recording stream	4 and onward
camIP	<string>	IP address of the camera	4 and onward
camIsRotByDate	<boolean>	Does the rotation occur when the limit time is reached	4 and onward
camIsRotBySpace	<boolean>	Does the rotation occur when the limit space is reached	4 and onward
camLiveBitrateCtrl	0, 1, 2	Indicating the bitrate of live stream • 0: NONE • 1: Variable • 2: Constant	4 and onward
camLiveCbrBitrate	<integer>	A constant indicating the bitrate	4 and onward
camLiveFps	<integer>	The fps of live stream	4 and onward
camLiveMode	0, 1	Determining the source of live view • 0: DS • 1: Camera	4 and onward
camLiveQuality	<string>	The quality of live stream	4 and onward
camLiveResolution	<string>	The resolution of live stream	4 and onward
camLiveStreamNo	<integer>	The stream number of live stream	4 and onward
camMobileBitrateCtrl	0, 1, 2	Indicating the bitrate of mobile stream • 0: NONE • 1: Variable • 2: Constant	4 and onward
camMobileCbrBitrate	<integer>	A constant indicating the bitrate	4 and onward
camMobileFps	<integer>	The fps of mobile stream	4 and onward
camMobileQuality	<string>	The quality of mobile stream	4 and onward
camMobileResolution	<string>	The resolution of mobile stream	4 and onward
camMobileStreamNo	<integer>	The stream number of mobile stream	4 and onward
camModel	<string>	Model name of the camera	4 and onward
camMountType	0, 1, 2	How camera is mounted • 0: CEILING • 1: WALL • 2: FLOOR	4 and onward
camName	<string>	Camera name	4 and onward
camPassWord	<string>	Password of the camera	4 and onward
camPort	<integer>	Port of the camera	4 and onward
camPostRecTime	<integer>	Extra recording time after the end of each recording	4 and onward
camPreRecTime	<integer>	Extra recording time before the start of each	4 and onward

		recording	
camPrefix	<string>	The prefix of the recording file name	4 and onward
camQuality	<string>	The quality of recording stream	4 and onward
camRecBitrateCtrl	0, 1, 2	Indicating the bitrate of recording stream • 0: NONE • 1: Variable • 2: Constant	4 and onward
camRecCbrBitrate	<integer>	A constant indicating the bitrate	4 and onward
camRecStreamNo	<integer>	Stream number of recording stream	4 and onward
camRecTime	<integer>	The recording length in minute	4 and onward
camResolution	<string>	The resolution of recording stream	4 and onward
camRotByDate	<integer>	The upper bound indicating how long a file can be store before rotation	4 and onward
camRotBySpace	<integer>	The upper bound that total file size can reach before rotation	4 and onward
camRotOption	<integer>	Indicating the behavior when the space is full, rotate/stop	4 and onward
camRtspProtocol	0 … 4	Indicating the protocol of RTSP • 0: NONE • 1: UDP • 2: TCP • 3: HTTP • 4: Auto	4 and onward
camSchedule	Array of <integer>	This variable is actually a 2-dimension, 48*7 array indicating the recording schedule at each half hour	4 and onward
camServer	<integer>	The DS Id on which the camera is mounted	4 and onward
camTvStandard	<integer>	Indicating the TV Standard • 0: NTSC • 1: PAL • 2: NONE	4 and onward
camUserName	<string>	User name to access the camera	4 and onward
camVendor	<string>	Vendor of the camera	4 and onward
camVideoType	<string>	Indicating video type • 0: UNKNOWN • 1: MJPEG • 2: MPEG4 • 3: H264 • 4: EMAP • 5: MXPEG	4 and onward
customAlarmDetect	<integer>	Determining the type of alarm in the schedule field	4 and onward
customDetect	<integer>	Determining the type of motion detection in the schedule field	4 and onward
edgeStgDownloadSch	Array of <integer>	This variable is actually a 2-dimension, 48*7 array indicating the recording schedule at each half hour	4 and onward
edgeStgEnabled	<boolean>	Is the edge storage enabled	4 and onward
edgeStgRecDays	<integer>	Using an weighted sum for verifying which day to record	4 and onward
edgeStgRecMode	1 … 15	A weighted sum indicating the recording	4 and onward

		mode - 0x01: CONTINUOUS - 0x02: MD - 0x04: DI - 0x08: AUDIO_DET	
edgeStgRecStartTime	<string>	The start time of edge storage recording	4 and onward
edgeStgRecStopTime	<string>	The stop time of edge storage recording	4 and onward
edgeStgRetrieveAction	0, 1, 2, 3	Indicating the retrieve action is - 0: NONE - 1: DOWNLOAD - 2: GET_LOST - 3: NO_RETRIEVE	4 and onward

<Fisheye Region Object> definition:

Key	Value	Description	Availability
camId	<integer>	Camera ID	4 and onward
id	<integer>	Region ID	4 and onward
name	<string>	Name of the Region	4 and onward
posX	<integer>	X-coordinate value of the dewarping region	4 and onward
posY	<integer>	Y-coordinate value of the dewarping region	4 and onward
regions	Array of <Fisheye Sub-region Object>	List of sub regions of the camera	4 and onward
type	-1 … 6	Type of fisheye region. - -1: FISHEYE_NOT_REGION - 0: FISHEYE_REGION - 1: FISHEYE_PANORAMA - 2: FISHEYE_DOUBLE_PANORAMA - 3: FISHEYE_TRIPLE_VIEW - 4: FISHEYE_QUAD_VIEW - 5: FISHEYE_SUB_REGION - 6: FISHEYE_SUB_PANORAMA	4 and onward
zoom	<integer>	Zoom value	4 and onward

<Fisheye Sub-region Object> definition:

Key	Value	Description	Availability
camId	<integer>	Camera ID	4 and onward
id	<integer>	Region ID	4 and onward
name	<string>	Name of the sub-region	4 and onward
location	<integer>	Location of the Region	4 and onward
posX	<integer>	X-coordinate value of the dewarping region	4 and onward
posY	<integer>	Y-coordinate value of the dewarping region	4 and onward
strSubRegionInfo	<string>	Information about sub-region	4 and onward
type	-1 … 6	Type of fisheye region. - -1: FISHEYE_NOT_REGION - 0: FISHEYE_REGION - 1: FISHEYE_PANORAMA - 2: FISHEYE_DOUBLE_PANORAMA - 3: FISHEYE_TRIPLE_VIEW - 4: FISHEYE_QUAD_VIEW	4 and onward

		• 5: FISHEYE_SUB_REGION • 6: FISHEYE_SUB_PANORAMA	
zoom	<integer>	Zoom value	4 and onward

<Image Enhancement Object> definition:

Key	Value	Description	Availability
brightness	<integer>	Brightness of images	4 and onward
contrast	<integer>	Degree of contrast of images	4 and onward
saturation	<integer>	Saturation of images	4 and onward
sharpness	<integer>	Sharpness of images	4 and onward

Example: Get camera information response.

```
{
   "camera": [
      {
         "audioOut": true,
         "mute": false,
         "recStatus": 0,
         "analyticsType": 0,
         "ptzCap": 111,
         "audioType": 4,
         "ptzContinuous": 39,
         "is_rotated_by_date": false,
         "ADCap": 5,
         "blLiveviewPriv": true,
         "videoCapList": [
            {
               "stList": [
                  "RTSP"
               ],
               "vt": "H.264"
            },
            {
               "stList": [
                  "HTTP"
               ],
               "vt": "MJPEG"
            }
         ],
         "isStatusUnrecognized": false,
         "is_rotated_by_space": true,
         "osd_position": 6,
         "fisheyeType": 0,
         "recBitrateCtrl": 1,
         "video_mirror": true,
         "vendor": "AXIS",
         "video_rotation": 0,
         "stmFisheyeType": 0,
         "dsPort": 5000,
         "TDCap": 0,
            "camMountType": 0,
            "exposure_control": 6,
            "name": "P5415-E-0011",
            "ownerDsId": 0,
            "osd_status": true,
            "fisheyeDispMode": "",
            "channel_id": "1",
            "setDICap": false,
            "param_chklist": 0,
            "analyticsBeep": false,
            "status_flags": 32,
            "feRegionList": [],
            "objTrack": false,
            "port": 80,
            "video_flip": true,
            "osd_format": 0,
            "autoPan": 0,
            "deleted": false,
            "deviceType": 4,
            "hasCamParam": true,
            "DINum": 2,
            "snapshot_path":
"/webapi/____________________________________________________________entry.cgi?
api=SYNO.SurveillanceStation.Camera&method=GetSnapshot&version=1&cameraId=70×tamp=142491912
9&preview=true",
            "dsIp": "",
            "host": "10.13.12.165",
            "rotation_by_date": 30,
            "autoFocus": true,
            "volume_space": "9.617",
            "analyticsHeight": 0,
            "MDCap": 5,
            "rotation_by_space": "10",
            "analyticsVirtualFence": false,
            "analyticsObjSize": 0,
            "analyticsDirection": 1,
            "analyticsRegion": "",
            "quality": "5",
            "multiDI": false,
            "type": 3,
            "stm_info": [
                {
                    "resolution": "800x450",
                    "quality": "5",
                    "fps": 10,
                    "type": 0
                },
                {
                    "resolution": "800x450",
                    "quality": "5",
                    "fps": 10,
                    "type": 1
                },
                {
                    "resolution": "800x450",
                    "quality": "5",
                    "fps": 10,
                    "type": 2
                }
            ],
            "camLiveMode": 0,
            "volume": 50,
            "ptzDirection": 32,
            "dayend": 18,
            "folder": "/var/services/surveillance/P5415-E-001",
            "tvStandard": 0,
            "singleStream": false,
            "imageEnhancement": {
                "saturation": 0,
                "sharpness": 0,
                "contrast": 0,
                "brightness": 0
            },
            "audioCap": true,
            "camIdOnRecServer": 0,
            "detailInfo": {
                "camRecTime": 30,
                "edgeStgEnabled": false,
                "camIsRotByDate": false,
                "camRecStreamNo": 0,
                "camRotByDate": 30,
                "camTvStandard": 0,
                "camMountType": 0,
                "camRecCbrBitrate": 1000,
                "camIsRotBySpace": true,
                "camLiveResolution": "800x450",
                "camRecBitrateCtrl": 1,
                "camMobileStreamNo": 0,
                "camLiveQuality": "5",
                "edgeStgRecStopTime": "23:59",
                "camLiveStreamNo": 0,
                "camResolution": "800x450",
                "camMobileQuality": "5",
                "camLiveMode": 0,
                "camPreRecTime": 5,
                "camIP": "10.13.12.165",
                "camLiveBitrateCtrl": 1,
                "camModel": "P5415-E",
                "edgeStgRecStartTime": "00:00",
                "camPostRecTime": 5,
                "camLiveCbrBitrate": 1000,
                "camMobileResolution": "800x450",
                "camUserName": "root",
                "camFps": 10,
                "camVendor": "AXIS",
                "camMobileFps": 10,
                "camFov": "",
                "camMobileCbrBitrate": 1000,
                "camRotBySpace": 10,
                "edgeStgDownloadSch":
[0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0],
                "customAlarmDetect": 3,
                "camLiveFps": 10,
                "camChannel": "1",
                "camRotOption": 0,
                "camQuality": "5",
                "camPrefix": "P5415-E-001",
                "edgeStgRetrieveAction": 2,
                "camSchedule":
[1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1
,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1,1,1,1],
                "edgeStgRecMode": 2,
                "customDetect": 5,
                "camPassWord": "%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC
%83%EF%BC%83%EF%BC%83",
                "camVideoType": "H.264",
                "camMobileBitrateCtrl": 1,
                "MdDetSrc": 0,
                "camServer": 0,
                "camFolder": "P5415-E-001",
                "edgeStgRecDays": 127,
                "camPort": 80,
                "camRtspProtocol": 4,
                "camName": "P5415-E-0011",
                "camAudioType": 4
            },
            "enabled": true,
            "analyticsSens": 1,
            "analyticsWidth": 0,
            "recCbrBitrate": 1000,
            "blPresetSpeed": false,
            "DONum": 0,
            "id": 70,
            "setDOCap": false,
            "analyticsFrame": true,
            "analyticsLine": false,
            "daybegin": 8,
            "fps": 10,
            "status": 1,
            "update_time": 1424919129,
            "exposure_mode": 4,
            "time_server": "",
            "rotation_option": 0,
            "presetNum": 32,
            "camStatus": 9,
            "analyticsDwellTime": 5,
            "camPath":
"cnRzcDovL3Jvb3Q6bmF0bWFzdGVyQDEwLjEzLjEyLjE2NTo1NTQvYXhpcy1tZWRpYS9tZWRpYS5hbXA/Y2FtZ
XJhPTEmdmlkZW9jb2RlYz1oMjY0JnJlc29sdXRpb249ODAweDQ1MCZmcHM9MTAmdmlkZW9rZXlmcmFtZWl
udGVydmFsPTEwJmNvbXByZXNzaW9uPTIw",
            "model": "P5415-E",
            "resolution": "800x450"
        }
    ]
}
```

2.3.4.3 ListGroup method

Get all camera group information.

Request

Parameter	Value	Description	Availability
offset	<integer>	*Optional*. The offset to be shifted in the total result. If not specified, the offset will be 0.	1 and onward
limit	<integer>	*Optional*. Number of camera groups to be returned. If not specified, return camera groups to the end of camera group list.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
method="ListGroup"&api="SYNO.SurveillanceStation.Camera"&limit=3&version="8"&offset=10
```

Response

Key	Value	Description	Availability
total	<integer>	The number of total camera groups.	1 and onward
offset	<integer>	The shifted offset in the total result.	1 and onward
cameraGroups	Array of <Camera Group Object>	The camera group list.	1 and onward

<Camera Group Object> definition:

Key	Value	Description	Availability

id	<CAMERA_GROUP_ID>	Unique camera group ID.	1 and onward
name	<string>	Camera group name.	1 and onward
cameraIds	Array of <CAMERA_ID>	The list of camera ID within this group.	1 and onward
description	<string>	The description of the camera group.	1 and onward
privilege	<int>	The user privilege about this camera group. Use bit operation to get the privilege. • 0x01: liveview • 0x02: playback • 0x04: lens • 0x08: audio	4 and onward

Example:

```
{
        "total": 38,
        "offset": 10,
        "cameraGroups": [
                {
                        "id": 1,
                        "name": "Group 1F",
                        "cameraIds": [10,11,12],
                        "description": "The camera group of 1F cameras",
                        "privilege": 10
                }, {
                        "id": 2,
                        "name": "Group 2F",
                        "cameraIds": [13,14,15],
                        "description": "The camera group of 2F cameras",
                        "privilege": 3
                }, {
                        "id": 3,
                        "name": "Group 3F",
                        "cameraIds": [16,17],
                        "description": "The camera group of 3F cameras",
                        "privilege": 15
                }
        ]
}
```

2.3.4.4 GetSnapshot method

Get the up-to-date snapshot of the selected camera in JPEG format.

Request

Parameter	Value	Description	Availability
cameraId	<CAMERA_ID>	Unique camera ID.	1 and onward
preview	<boolean>	*Optional.* Showing the preview path of the snapshot or not	4 and onward
camStm	<integer>	*Optional.* Stream number of selected camera	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
camStm=1&version="8"&cameraId=18&api="SYNO.SurveillanceStation.Camera"&preview=true&method="
GetSnapshot"
```

Response

The binary JPEG image data.

Example: HTTP response with image data

```
HTTP/1.0 200 OK
Content-Type: image/jpeg

<Binary JPEG image data>
```

2.3.4.5 Enable method

Enable cameras.

Request

Parameter	Value	Description	Availability
cameraIds	<string>	The list of <CAMERA_ID> to be queried concatenated by “,”.	3 and onward

Example: Enable cameras which ids are 2 and 10.

```
GET /webapi/entry.cgi?
api=SYNO.SurveillanceStation.Camera&method=Enable&version=3&cameraIds=2,10
```

Response

Key	Value	Description	Availability
data	<Enable/Disable Object>	Returning object	4 and onward
success	<boolean>	Indicating if the process is success	4 and onward

<Enable/Disable Object> definition:

Key	Value	Description	Availability
camera	Array of <Camera Information Object>	The detail information of the selected cameras	4 and onward
delcam	Array of <Camera Information Object>	Showing the list of deleted cameras	4 and onward
keyUsedCnt	<integer>	Total key used in the CMS system	4 and onward

Example:

```
{
        "delcam": [],
        "camera": [
            {
                "audioOut": true,
                "mute": false,
                "recStatus": 0,
                "analyticsType": 0,
                "ptzCap": 111,
                "audioType": 4,
                "ptzContinuous": 39,
                "is_rotated_by_date": false,
                "ADCap": 5,
                "blLiveviewPriv": true,
                "videoCapList": [
                    {
                        "stList": [
                            "RTSP"
                        ],
                        "vt": "H.264"
                    },
                    {
                        "stList": [
                            "HTTP"
                        ],
                        "vt": "MJPEG"
                    }
                ],
                "isStatusUnrecognized": false,
                "is_rotated_by_space": true,
                "osd_position": 6,
                "fisheyeType": 0,
                "recBitrateCtrl": 1,
                "video_mirror": true,
                "vendor": "AXIS",
                "video_rotation": 0,
                "stmFisheyeType": 0,
                "dsPort": 5000,
                "TDCap": 0,
                "camMountType": 0,
                "exposure_control": 6,
                "name": "P5415-E-0011",
                "ownerDsId": 0,
                "osd_status": true,
                "fisheyeDispMode": "",
                "channel_id": "1",
                "setDICap": false,
                "param_chklist": 0,
                "analyticsBeep": false,
                "status_flags": 32,
                "feRegionList": [],
                "objTrack": false,
            "port": 80,
            "video_flip": true,
            "osd_format": 0,
            "autoPan": 0,
            "deleted": false,
            "deviceType": 4,
            "hasCamParam": true,
            "DINum": 2,
            "snapshot_path":
"/webapi/____________________________________________________________entry.cgi?
api=SYNO.SurveillanceStation.Camera&method=GetSnapshot&version=1&cameraId=70×tamp=142491912
9&preview=true",
            "dsIp": "",
            "host": "10.13.12.165",
            "rotation_by_date": 30,
            "autoFocus": true,
            "volume_space": "9.617",
            "analyticsHeight": 0,
            "MDCap": 5,
            "rotation_by_space": "10",
            "analyticsVirtualFence": false,
            "analyticsObjSize": 0,
            "analyticsDirection": 1,
            "analyticsRegion": "",
            "quality": "5",
            "multiDI": false,
            "type": 3,
            "stm_info": [
               {
                  "resolution": "800x450",
                  "quality": "5",
                  "fps": 10,
                  "type": 0
               },
               {
                  "resolution": "800x450",
                  "quality": "5",
                  "fps": 10,
                  "type": 1
               },
               {
                  "resolution": "800x450",
                  "quality": "5",
                  "fps": 10,
                  "type": 2
               }
            ],
            "camLiveMode": 0,
            "volume": 50,
            "ptzDirection": 32,
            "dayend": 18,
        "folder": "/var/services/surveillance/P5415-E-001",
        "tvStandard": 0,
        "singleStream": false,
        "imageEnhancement": {
            "saturation": 0,
            "sharpness": 0,
            "contrast": 0,
            "brightness": 0
        },
        "audioCap": true,
        "camIdOnRecServer": 0,
        "detailInfo": {
            "camRecTime": 30,
            "edgeStgEnabled": false,
            "camIsRotByDate": false,
            "camRecStreamNo": 0,
            "camRotByDate": 30,
            "camTvStandard": 0,
            "camMountType": 0,
            "camRecCbrBitrate": 1000,
            "camIsRotBySpace": true,
            "camLiveResolution": "800x450",
            "camRecBitrateCtrl": 1,
            "camMobileStreamNo": 0,
            "camLiveQuality": "5",
            "edgeStgRecStopTime": "23:59",
            "camLiveStreamNo": 0,
            "camResolution": "800x450",
            "camMobileQuality": "5",
            "camLiveMode": 0,
            "camPreRecTime": 5,
            "camIP": "10.13.12.165",
            "camLiveBitrateCtrl": 1,
            "camModel": "P5415-E",
            "edgeStgRecStartTime": "00:00",
            "camPostRecTime": 5,
            "camLiveCbrBitrate": 1000,
            "camMobileResolution": "800x450",
            "camUserName": "root",
            "camFps": 10,
            "camVendor": "AXIS",
            "camMobileFps": 10,
            "camFov": "",
            "camMobileCbrBitrate": 1000,
            "camRotBySpace": 10,
            "edgeStgDownloadSch":
[0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0],
                "customAlarmDetect": 3,
                "camLiveFps": 10,
                "camChannel": "1",
                "camRotOption": 0,
                "camQuality": "5",
                "camPrefix": "P5415-E-001",
                "edgeStgRetrieveAction": 2,
                "camSchedule":
[1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1
,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1,1,1,1],
                "edgeStgRecMode": 2,
                "customDetect": 5,
                "camPassWord": "%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC
%83%EF%BC%83%EF%BC%83",
                "camVideoType": "H.264",
                "camMobileBitrateCtrl": 1,
                "MdDetSrc": 0,
                "camServer": 0,
                "camFolder": "P5415-E-001",
                "edgeStgRecDays": 127,
                "camPort": 80,
                "camRtspProtocol": 4,
                "camName": "P5415-E-0011",
                "camAudioType": 4
            },
            "enabled": true,
            "analyticsSens": 1,
            "analyticsWidth": 0,
            "recCbrBitrate": 1000,
            "blPresetSpeed": false,
            "DONum": 0,
            "id": 70,
            "setDOCap": false,
            "analyticsFrame": true,
            "analyticsLine": false,
            "daybegin": 8,
            "fps": 10,
            "status": 1,
            "update_time": 1424919129,
            "exposure_mode": 4,
            "time_server": "",
            "rotation_option": 0,
            "presetNum": 32,
            "camStatus": 9,
            "analyticsDwellTime": 5,
            "camPath":
"cnRzcDovL3Jvb3Q6bmF0bWFzdGVyQDEwLjEzLjEyLjE2NTo1NTQvYXhpcy1tZWRpYS9tZWRpYS5hbXA/Y2FtZ
XJhPTEmdmlkZW9jb2RlYz1oMjY0JnJlc29sdXRpb249ODAweDQ1MCZmcHM9MTAmdmlkZW9rZXlmcmFtZWl
```

```
udGVydmFsPTEwJmNvbXByZXNzaW9uPTIw",
                "model": "P5415-E",
                "resolution": "800x450"
            }
        ],
        "keyUsedCnt": 8
    }
```

2.3.4.6 Disable method

Disable cameras.

Request

Parameter	Value	Description	Availability
cameraIds	<string>	The list of <CAMERA_ID> to be queried concatenated by “,”.	3 and onward

Example: Disable cameras which ids are 2 and 10.

```
http://192.168.1.1:5000/webapi/entry.cgi?
cameraIds="93"&api="SYNO.SurveillanceStation.Camera"&version="8"&method="Disable"
```

Response

Key	Value	Description	Availability
data	<Enable/Disable Object>	Returning object	4 and onward
success	<boolean>	Indicating if the process is success	4 and onward

<Enable/Disable Object> definition:

Key	Value	Description	Availability
camera	Array of <Camera Information Object>	The detail information of the selected cameras	4 and onward
delcam	Array of <Camera Information Object>	Showing the list of deleted cameras	4 and onward
keyUsedCnt	<integer>	Total key used in the CMS system	4 and onward

Example:

```
{
    "data": {
        "delcam": [],
        "camera": [
            {
                "audioOut": true,
                "mute": false,
                "recStatus": 0,
                "analyticsType": 0,
                "ptzCap": 111,
            "audioType": 4,
            "ptzContinuous": 39,
            "is_rotated_by_date": false,
            "ADCap": 5,
            "blLiveviewPriv": true,
            "videoCapList": [
                {
                    "stList": [
                        "RTSP"
                    ],
                    "vt": "H.264"
                },
                {
                    "stList": [
                        "HTTP"
                    ],
                    "vt": "MJPEG"
                }
            ],
            "isStatusUnrecognized": false,
            "is_rotated_by_space": true,
            "osd_position": 6,
            "fisheyeType": 0,
            "recBitrateCtrl": 1,
            "video_mirror": true,
            "vendor": "AXIS",
            "video_rotation": 0,
            "stmFisheyeType": 0,
            "dsPort": 5000,
            "TDCap": 0,
            "camMountType": 0,
            "exposure_control": 6,
            "name": "P5415-E-0011",
            "ownerDsId": 0,
            "osd_status": true,
            "fisheyeDispMode": "",
            "channel_id": "1",
            "setDICap": false,
            "param_chklist": 0,
            "analyticsBeep": false,
            "status_flags": 32,
            "feRegionList": [],
            "objTrack": false,
            "port": 80,
            "video_flip": true,
            "osd_format": 0,
            "autoPan": 0,
            "deleted": false,
            "deviceType": 4,
            "hasCamParam": true,
            "DINum": 2,
                "snapshot_path":
"/webapi/________________________________________________________entry.cgi?
api=SYNO.SurveillanceStation.Camera&method=GetSnapshot&version=1&cameraId=70×tamp=142491912
9&preview=true",
                "dsIp": "",
                "host": "10.13.12.165",
                "rotation_by_date": 30,
                "autoFocus": true,
                "volume_space": "9.617",
                "analyticsHeight": 0,
                "MDCap": 5,
                "rotation_by_space": "10",
                "analyticsVirtualFence": false,
                "analyticsObjSize": 0,
                "analyticsDirection": 1,
                "analyticsRegion": "",
                "quality": "5",
                "multiDI": false,
                "type": 3,
                "stm_info": [
                    {
                        "resolution": "800x450",
                        "quality": "5",
                        "fps": 10,
                        "type": 0
                    },
                    {
                        "resolution": "800x450",
                        "quality": "5",
                        "fps": 10,
                        "type": 1
                    },
                    {
                        "resolution": "800x450",
                        "quality": "5",
                        "fps": 10,
                        "type": 2
                    }
                ],
                "camLiveMode": 0,
                "volume": 50,
                "ptzDirection": 32,
                "dayend": 18,
                "folder": "/var/services/surveillance/P5415-E-001",
                "tvStandard": 0,
                "singleStream": false,
                "imageEnhancement": {
                    "saturation": 0,
                    "sharpness": 0,
                    "contrast": 0,
                    "brightness": 0
```

```
            },
            "audioCap": true,
            "camIdOnRecServer": 0,
            "detailInfo": {
                "camRecTime": 30,
                "edgeStgEnabled": false,
                "camIsRotByDate": false,
                "camRecStreamNo": 0,
                "camRotByDate": 30,
                "camTvStandard": 0,
                "camMountType": 0,
                "camRecCbrBitrate": 1000,
                "camIsRotBySpace": true,
                "camLiveResolution": "800x450",
                "camRecBitrateCtrl": 1,
                "camMobileStreamNo": 0,
                "camLiveQuality": "5",
                "edgeStgRecStopTime": "23:59",
                "camLiveStreamNo": 0,
                "camResolution": "800x450",
                "camMobileQuality": "5",
                "camLiveMode": 0,
                "camPreRecTime": 5,
                "camIP": "10.13.12.165",
                "camLiveBitrateCtrl": 1,
                "camModel": "P5415-E",
                "edgeStgRecStartTime": "00:00",
                "camPostRecTime": 5,
                "camLiveCbrBitrate": 1000,
                "camMobileResolution": "800x450",
                "camUserName": "root",
                "camFps": 10,
                "camVendor": "AXIS",
                "camMobileFps": 10,
                "camFov": "",
                "camMobileCbrBitrate": 1000,
                "camRotBySpace": 10,
                "edgeStgDownloadSch":
[0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0],
                "customAlarmDetect": 3,
                "camLiveFps": 10,
                "camChannel": "1",
                "camRotOption": 0,
                "camQuality": "5",
                "camPrefix": "P5415-E-001",
                "edgeStgRetrieveAction": 2,
                    "camSchedule":
[1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1
,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1,1,1,1],
                    "edgeStgRecMode": 2,
                    "customDetect": 5,
                    "camPassWord": "%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC
%83%EF%BC%83%EF%BC%83",
                    "camVideoType": "H.264",
                    "camMobileBitrateCtrl": 1,
                    "MdDetSrc": 0,
                    "camServer": 0,
                    "camFolder": "P5415-E-001",
                    "edgeStgRecDays": 127,
                    "camPort": 80,
                    "camRtspProtocol": 4,
                    "camName": "P5415-E-0011",
                    "camAudioType": 4
                },
                "enabled": true,
                "analyticsSens": 1,
                "analyticsWidth": 0,
                "recCbrBitrate": 1000,
                "blPresetSpeed": false,
                "DONum": 0,
                "id": 70,
                "setDOCap": false,
                "analyticsFrame": true,
                "analyticsLine": false,
                "daybegin": 8,
                "fps": 10,
                "status": 1,
                "update_time": 1424919129,
                "exposure_mode": 4,
                "time_server": "",
                "rotation_option": 0,
                "presetNum": 32,
                "camStatus": 9,
                "analyticsDwellTime": 5,
                "camPath":
"cnRzcDovL3Jvb3Q6bmF0bWFzdGVyQDEwLjEzLjEyLjE2NTo1NTQvYXhpcy1tZWRpYS9tZWRpYS5hbXA/Y2FtZ
XJhPTEmdmlkZW9jb2RlYz1oMjY0JnJlc29sdXRpb249ODAweDQ1MCZmcHM9MTAmdmlkZW9rZXlmcmFtZWl
udGVydmFsPTEwJmNvbXByZXNzaW9uPTIw",
                "model": "P5415-E",
                "resolution": "800x450"
            }
        ],
        "keyUsedCnt": 8
    },
    "success": true
```

```
}
```

2.3.4.7 GetCapabilityByCamId method

Get capability of a specific camera by its camera Id.

Request

Parameter	Value	Description	Availability
cameraId	<CAMERA_ID>	Unique camera ID.	4 and onward

Example: Get capability of camera which id is 123

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Camera"&version="8"&cameraId=90&method="GetCapabilityByCamId"
```

Response

Key	Value	Description	Availability
ptzPan	<boolean>	Capability to perform pan action.	4 and onward
ptzTilt	<boolean>	Capability to perform tilt action.	4 and onward
ptzZoom	<boolean>	Capability to perform zoom action.	4 and onward
ptzHome	<boolean>	Capability to perform home action.	4 and onward
ptzPresetNumber	<integer>	The maximum number of preset supported by the model. 0 stands for preset incapability.	4 and onward
ptzPan	<integer>	0: doesn't support pan action. 1: support step operation 2: support continuous operation	5 and onward
ptzTilt	<integer>	0: doesn't support tilt action. 1: support step operation 2: support continuous operation	5 and onward
ptzZoom	<integer>	0: doesn't support zoom action. 1: support step operation 2: support continuous operation	5 and onward
ptzIris	<integer>	0: doesn't support iris action. 1: support step operation 2: support continuous operation	5 and onward
ptzFocus	<integer>	0: doesn't support focus action. 1: support step operation 2: support continuous operation	5 and onward
ptzAbs	<boolean>	Capability to perform absolute PTZ action.	6 and onward
ptzAutoFocus	<boolean>	Capability to perform auto focus action.	6 and onward
ptzDirection	<integer>	The PTZ directions that camera support	6 and onward
ptzSpeed	<boolean>	Capability to perform change speed.	6 and onward
audioOut	<boolean>	Capability to perform audio output to camera.	1 and onward

Example:

```
{
        "ptzHome":false,
        "ptzPresetNumber":255,
        "ptzPan":2,
        "ptzTilt":2,
        "ptzZoom":2,
        "ptzIris":0,
        "ptzFocus":2,
        "ptzAbs":false,
        "ptzAutoFocus":false,
        "ptzDirection":8,
        "ptzSpeed":true,
        "audioOut":true
}
```

2.3.4.8 MigrationEnum method

Enumerates current status of migration

Request

Parameter	Value	Description	Availability
start	<integer>	The beginning of the enumeration list	4 and onward
limit	<integer>	Amount of the events for showing	4 and onward
ownerDsId	<integer>	The source DS ID in the CMS table	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
version="8"&ownerDsId=0&start=0&api="SYNO.SurveillanceStation.Camera"&limit=1&method="Migration
Enum"
```

Response

Key	Value	Description	Availability
camInfo	Array of <Migration Info Object>	Information of each listed migration event	4 and onward
total	<integer>	The total number of events in the database	4 and onward

<Migration Info Object> definition:

Key	Value	Description	Availability
from	<integer>	The source DS of the migration	4 and onward
id	<integer>	ID of selected migration event	4 and onward
ip	<string>	IP of camera	4 and onward
is_rotated_by_space	<boolean>	Replacement policy once the space is full	4 and onward
name	<string>	Name of the camera specified at the source DS	4 and onward
occupied	<string>	Occupied space in the destination DS denoted in GB	4 and onward

progress	<float>	The completeness of the event	4 and onward
rotation_by_space	<string>	Parameter of the replacement policy	4 and onward
status	<integer>	Status of the migration event	4 and onward
to	<integer>	The destination DS	4 and onward

Example:

```
{
"data": {
    "total": 3,
    "camInfo": [
        {
            "status": -1,
            "to": 1,
            "rotation_by_space": "0",
            "from": 0,
            "name": "iPUX",
            "progress": 10.0,
            "ip": "10.13.11.195",
            "is_rotated_by_space": false,
            "occupied": "0",
            "id": 1
        }
    ]
}
```

2.3.4.9 Migrate method

Migrating Cameras and recorded video (optional) to specified DS

Request

Parameter	Value	Description	Availability
serverId	<integer>	The destination of the migration	4 and onward
camIdList	<string>	List of To-Be-Migrated cameras	4 and onward
delMode	<integer>	Choosing to preserve, remove or migrate recorded videos	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
delMode=2&camIdList="45"&version="8"&api="SYNO.SurveillanceStation.Camera"&serverId=1&method="
Migrate"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.4.10 CountByCategory method

This method lists groups along with number of cameras which belong to according to specified criteria

Request

Parameter	Value	Description	Availability
start	<integer>	The starting offset in the list of cameras	4 and onward
limit	<integer>	The number of cameras to show	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
start=0&api="SYNO.SurveillanceStation.Camera"&limit=0&version="8"&method="CountByCategory"
```

Response

Key	Value	Description	Availability
cam_brand	Array of <Group Status Object>	List of camera counts categorized by brand	4 and onward
cam_device	Array of <Group Status Object>	The list of camera counts categorized by devic	4 and onward
cam_group	Array of <Group Status Object>	The list of camera counts categorized by user defined groups	4 and onward
cam_status	Array of <Group Status Object>	The list of camera counts categorized by camera status	4 and onward
server	Array of <Group Status Object>	The list of camera counts categorized by owner DS	4 and onward
total	<integer>	The amount of cameras	4 and onward

<Group Status Object> definition:

Key	Value	Description	Availability
id	<string>	The identifier of status in the selected group	4 and onward

Example:

```
{
   "cam_brand": [
      {
         "id": "-1: 2"
      },
      {
         "id": "ABUS: 1"
      },
      {
         "id": "iPUX: 1"
      }
   ],
   "cam_group": [
        {
            "id": "-1: 2"
        },
        {
            "id": "1: 1"
        }
    ],
    "cam_status": [
        {
            "id": "-1: 2"
        },
        {
            "id": "1: 1"
        },
        {
            "id": "12: 0"
        },
        {
            "id": "2: 0"
        },
        {
            "id": "3: 0"
        },
        {
            "id": "7: 1"
        }
    ],
    "server": [
        {
            "id": "-1: 2"
        },
        {
            "id": "0: 2"
        },
        {
            "id": "1: 0"
        }
    ],
    "cam_device": [
        {
            "id": "-1: 2"
        },
        {
            "id": "1: 1"
        },
        {
            "id": "2: 0"
        },
        {
            "id": "4: 1"
        },
        {
            "id": "8: 0"
        }
    ],
    "total": 2
}
```

2.3.4.11 RecountEventSize method

To activate the "getOccupiedSize" API for real-time size-calculating.

Request

Parameter	Value	Description	Availability
camId	<integer>	Specified cam	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Camera"&camId=27&version="8"&method="RecountEventSize"
```

Response

Key	Value	Description	Availability
size	<float>	The total size of the migrated data	4 and onward

Example:

```
{
    "size": 207.3548631668091
}
```

2.3.4.12 SaveOptimizeParam method

This API is able to save the configuration of Optimization panel

Request

Parameter	Value	Description	Availability
cameraIds	<integer>	Specified cam	4 and onward
camParamChkList	<integer>	*Optional.*	4 and onward

		Record the overall bitwise OR operation status of each checkbox. • time server: 1 • video mirror: 2 • video mirror: 4 • video rotate: 8 • exposure control: 16 • exposure mode: 32 • osd timestamp: 64	
timeServer	<string>	*Optional.* Specified NTP server	4 and onward
vdoMirror	<boolean>	*Optional.* 1 for turning on while 0 for turning off	4 and onward
vdoFlip	<boolean>	*Optional.* 1 for turning on while 0 for turning off	4 and onward
vdoRotation	<boolean>	*Optional.* 1 for turning on while 0 for turning off	4 and onward
expCtrl	<integer>	*Optional.* Degree of exposure control	4 and onward
expMode	<integer>	*Optional.* Modes for days and nights respectively	4 and onward
dayBegin	<integer>	*Optional.* Determine the start hour for the schedule of day mode	4 and onward
dayEnd	<integer>	*Optional.* Determine the end hour for the schedule of day mode	4 and onward
osdStatus	<boolean>	*Optional.* Specify whether osd is turned on/off	4 and onward
osdFormat	<integer>	*Optional.* Determine the format of osd if supported	4 and onward
osdPosition	<integer>	*Optional.* Determin the position of osd	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
vdoMirror=true&camParamChkList=1&version="8"&vdoRotation=false&vdoFlip=true&osdPosition=0&exp
Mode=0&timeServer="pool.ntp.org"&cameraIds=28&api="SYNO.SurveillanceStation.Camera"&osdStatus=f
alse&osdFormat=0&dayEnd=18&expCtrl=2&method="SaveOptimizeParam"&dayBegin=8
```

Response

Key	Value	Description	Availability
id	<integer>	Return the camera id	4 and onward

Example:

```
{
   "id": 28
}
```

2.3.4.13 GetOccupiedSize method

This method returns the occupied volume in GigaBytes

Request

Parameter	Value	Description	Availability
camIdList	<string>	The list of demanded cameras	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Camera"&camIdList="46,48"&version="8"&method="GetOccupiedSize"
```

Response

Key	Value	Description	Availability
ID	<string>	This field is actually replaced by camera ID dynamically, as a consequence the result for example should be {"46":"0.260","48":"0.050"}	4 and onward

Example:

```
{
    "104":"9.961",
    "99":"9.955"
}
```

2.3.4.14 CheckCamValid method

Check if the shortcut item is valid

Request

Parameter	Value	Description	Availability
cameraId	<integer>	Specified Cam ID	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Camera"&version="8"&cameraId=27&method="CheckCamValid"
```

Response

Key	Value	Description	Availability
categEntryVal	<string>	The mapped entry for specified camera	4 and onward
itemStatus	integer	Status of the shortcut	4 and onward

Example:

```
{
    "categEntryVal": "iPUX",
    "itemStatus": 0
}
```

2.3.4.15 MigrationCancel method

Deleting selected tasks

Request

Parameter	Value	Description	Availability
taskIds	<string>	To-Be-Deleted tasks	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Camera"&taskIds="1,4,7"&version="8"&method="MigrationCancel"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.4.16 Delete method

Deleting selected tasks

Request

Parameter	Value	Description	Availability
cameraIds	<string>	Selected cameras that are to be deleted	4 and onward
keepEvents	<integer>	To delete recorded videos or not	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
cameraIds="18"&keepEvents=0&api="SYNO.SurveillanceStation.Camera"&version="8"&method="Delete"
```

Response

Key	Value	Description	Availability
camera	Array of <Camera Object>	Detail of remaining cameras after deletion	4 and onward
delcam	Array of <Camera Object>	Information about cameras that are deleted but related information are kept	4 and onward
keyUsedCnt	<integer>	Number of used licence	4 and onward

Example:

```
{
    "delcam": [],
    "camera": [],
    "keyUsedCnt": 0
}
```

2.3.4.17 GetStmUrlPath method

Get stream url path by camera id.

Request

Parameter	Value	Description	Availability
cameraIds	<string>	Selected cameras.	4 and onward
blMobile	<boolean>	*Optional.* Is the request from mobile	4 and onward

Example:

```
Http://192.168.1.1:5000/webapi/entry.cgi?
api=SYNO.SurveillanceStation.Camera&method=GetStmUrlPath&version=8&cameraIds=”14,15”
```

Response

Key	Value	Description	Availability
camera	Array of <PathInfo Object>	Detail of remaining cameras after deletion	4 and onward

Example:

```
{
    "pathInfos" : [
      {
        "cameraId" : 14,
        "forceEnableMulticast" : false,
        "mjpegHttpPath" : "http://10.13.13.9:5000/webapi/entry.cgi?
api=SYNO.SurveillanceStation.VideoStreaming&version=1&method=Stream&format=mjpeg&cameraId=14
&StmKey=\"faaa8c5e0d20b71038e35e7e3635b0ee\"",
        "multicstPath" :
"rtsp://admin:faaa8c5e0d20b71038e35e7e3635b0ee@10.13.13.9:554/Sms=14.multicast",
        "mxpegHttpPath" : "http://10.13.13.9:5000/webapi/entry.cgi?
api=SYNO.SurveillanceStation.VideoStreaming&version=1&method=Stream&format=mxpeg&cameraId=14
&StmKey=\"faaa8c5e0d20b71038e35e7e3635b0ee\"",
        "unicastOverHttpPath" :
"rtsp://10.13.13.9:5000/webman/3rdparty/SurveillanceStation/cgi/rtsp.cgi?
Sms=14.unicast&DsId=0&StmKey=faaa8c5e0d20b71038e35e7e3635b0ee",
        "unicastPath" :
"rtsp://admin:faaa8c5e0d20b71038e35e7e3635b0ee@10.13.13.9:554/Sms=14.unicast"
      },
      {
        "cameraId" : 15,
        "forceEnableMulticast" : false,
        "mjpegHttpPath" : "http://10.13.13.9:5000/webapi/entry.cgi?
api=SYNO.SurveillanceStation.VideoStreaming&version=1&method=Stream&format=mjpeg&cameraId=15
&StmKey=\"faaa8c5e0d20b71038e35e7e3635b0ee\"",
        "multicstPath" :
"rtsp://admin:faaa8c5e0d20b71038e35e7e3635b0ee@10.13.13.9:554/Sms=15.multicast",
        "mxpegHttpPath" : "http://10.13.13.9:5000/webapi/entry.cgi?
api=SYNO.SurveillanceStation.VideoStreaming&version=1&method=Stream&format=mxpeg&cameraId=15
&StmKey=\"faaa8c5e0d20b71038e35e7e3635b0ee\"",
        "unicastOverHttpPath" :
"rtsp://10.13.13.9:5000/webman/3rdparty/SurveillanceStation/cgi/rtsp.cgi?
Sms=15.unicast&DsId=0&StmKey=faaa8c5e0d20b71038e35e7e3635b0ee",
        "unicastPath" :
"rtsp://admin:faaa8c5e0d20b71038e35e7e3635b0ee@10.13.13.9:554/Sms=15.unicast"
      }
    ]
  }
```

<PathInfo Object> definition:

Key	Value	Description	Availability
cameraId	<integer>	ID of the camera.	4 and onward
forceEnableMulticast	<boolean>	Is the camera forced to enable multicast.	4 and onward
mjpegHttpPath	<string>	Mjpeg stream path(over http) of the camera	4 and onward
multicstPath	<string>	Multi-cast path of the camera.	4 and onward
mxpegHttpPath	<string>	mxpeg stream path of the camera.	4 and onward
unicastOverHttpPath	<string>	Uni-cast stream(over http) path of the camera.	4 and onward
unicastPath	<string>	Uni-cast stream path of the camera.	4 and onward

2.3.4.18 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.
402	Camera disabled.

2.3.5 SYNO.Surveillance.Camera.Event

Event Detection related WebAPI. e.g. Enumerate detection parameters or long polling for alarm status or save detection parameters.

API Name	Version	Availability
SYNO.Surveillance.Camera.Event	1	Surveillance Station 7.0

Method Name	Section	Availability
AudioEnum	2.3.5.1	Surveillance Station 7.0
AlarmEnum	2.3.5.2	Surveillance Station 7.0
TamperingEnum	2.3.5.3	Surveillance Station 7.0
MDParamSave	2.3.5.4	Surveillance Station 7.0
MotionEnum	2.3.5.5	Surveillance Station 7.0
ADParamSave	2.3.5.6	Surveillance Station 7.0
DIParamSave	2.3.5.7	Surveillance Station 7.0
AlarmStsPolling	2.3.5.8	Surveillance Station 7.0
TDParamSave	2.3.5.9	Surveillance Station 7.0

2.3.5.1 AudioEnum method

Enumerate audio detection parameters. e.g. keep setting, detect source, level(capability, minimum value, maximum value and current value).

Request

Parameter	Value	Description	Availability
camId	<integer>	The selected camera id.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Camera.Event"&camId=280&version="1"&method="AudioEnum"
```

Response

Key	Value	Description	Availability
ADParam	<ADParam Object>	The audio detection parameters.	4 and onward

<ADParam Object> Definition:

Key	Value	Description	Availability
keep	<boolean>	Define the keep the camera original setting.	4 and onward
source	<integer>	Define the detection source. e.g. -1:disable, 0:by_camera.	4 and onward

level	<Level Object>	The level's detail informations.	4 and onward

<Level Object> Definition:

Key	Value	Description	Availability
cap	<boolean>	Define if support the level detection argument.	4 and onward
minValue	<integer>	Define the minimum value of level.	4 and onward
maxValue	<integer>	Define the maximun value of level.	4 and onward
value	<integer>	Define the current value of level.	4 and onward

Example:

```
{
    "ADParam": {
        "source": 0,
        "level": {
            "cap": true,
            "maxValue": 100,
            "value": 50,
            "minValue": 0
        },
        "keep": true
    }
}
```

2.3.5.2 AlarmEnum method

Enumerate alarm setting list. e.g. normal and keep

Request

Parameter	Value	Description	Availability
camId	<integer>	The selected camera id.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Camera.Event"&camId=280&version="1"&method="AlarmEnum"
```

Response

Key	Value	Description	Availability
DIParam	Array of <AlarmSettingList Object>	The updated alarm setting list.	4 and onward

<AlarmSettingList Object> Definition:

Key	Value	Description	Availability
keep	<boolean>	Define the keep the camera original setting.	4 and onward

idx	<integer>	The index of alarm.	4 and onward
normal	<integer>	The normal state of this alarm. e.g. 0:open_circuit, 1:ground_circuit.	4 and onward

Example:

```
{
    "DIParam": [
        {
            "normal": 0,
            "idx": 0,
            "keep": true
        }
    ]
}
```

2.3.5.3 TamperingEnum method

Enumerate tampering detection parameters. e.g. keep setting, detect source, duration(capability, minimum value, maximum value and current value).

Request

Parameter	Value	Description	Availability
camId	<integer>	The selected camera id.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Camera.Event"&camId=280&version="1"&method="TamperingEnum"
```

Response

Key	Value	Description	Availability
TDParam	<TDParam Object>	The tampering detection parameters.	4 and onward

<TDParam Object> Definition:

Key	Value	Description	Availability
keep	<boolean>	Define the keep the camera original setting.	4 and onward
source	<integer>	Define the detection source. e.g. -1:disable, 0:by_camera.	4 and onward
duration	<Duration Object>	The duration's detail informations.	4 and onward

<Duration Object> Definition:

Key	Value	Description	Availability
cap	<boolean>	Define if support the duration detection argument.	4 and onward

minValue	<integer>	Define the minimum value of duration.	4 and onward
maxValue	<integer>	Define the maximun value of duration.	4 and onward
value	<integer>	Define the current value of duration.	4 and onward

Example:

```
{
    "TDParam": {
        "duration": {
            "cap": true,
            "maxValue": 100,
            "value": 50,
            "minValue": 0
        },
        "source": 0,
        "keep": true
    }
}
```

2.3.5.4 MDParamSave method

Save motion detection parameters. e.g. Sensitivity, Threshold, objectSize and percentage.

Request

Parameter	Value	Description	Availability
camId	<integer>	The selected camera id.	4 and onward
source	<integer>	*Optional.* Define the detection source. e.g. -1:disable, 0:by_camera and 1:by_surveillance.	4 and onward
keep	<boolean>	*Optional.* Define the keep thie camera original setting.	4 and onward
sensitivity	<integer>	*Optional.* Define the sensitivity number.	4 and onward
threshold	<integer>	*Optional.* Define the threshold number.	4 and onward
objectSize	<integer>	*Optional.* Define the object size you want to detect.	4 and onward
percentage	<integer>	*Optional.* Define the percentage number.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
objectSize=50&source=0&camId=280&version="1"&api="SYNO.SurveillanceStation.Camera.Event"&threshold=20&sensitivity=90&percentage=50&method="MDParamSave"&keep=true
```

Response

Key	Value	Description	Availability
camId	<integer>	The selected camera id.	4 and onward

Example:

```
{
    "camId": 280
}
```

2.3.5.5 MotionEnum method

Enumerate motion detection parameters. e.g. keep setting, detect source, sensitivity, threshold, objectSize and percentage.

Request

Parameter	Value	Description	Availability
camId	<integer>	The selected camera id.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Camera.Event"&camId=280&version="1"&method="MotionEnum"
```

Response

Key	Value	Description	Availability
MDParam	<MDParam Object>	The motion detection parameters.	4 and onward

<MDParam Object> Definition:

Key	Value	Description	Availability
keep	<boolean>	Define the keep the camera original setting.	4 and onward
source	<integer>	Define the detection source. e.g. -1:disable, 0:by_camera, 1:by_surveillance.	4 and onward
sensitivity	<Sensitivity Object>	The sensitivity's detail informations.	4 and onward
threshold	<Threshold Object>	The threshold's detail informations.	4 and onward
objectSize	<ObjectSize Object>	The objectSize's detail informations.	4 and onward
percentage	<Percentage Object>	The percentage's detail informations.	4 and onward

<Threshold Object> Definition:

Key	Value	Description	Availability
camCap	<boolean>	Define if camera support the threshold detection argument.	4 and onward
ssCap	<boolean>	Define if surveillance station support the threshold detection argument.	4 and onward

minValue	<integer>	Define the minimum value of threshold.	4 and onward
maxValue	<integer>	Define the maximun value of threshold.	4 and onward
value	<integer>	Define the current value of threshold.	4 and onward

<ObjectSize Object> Definition:

Key	Value	Description	Availability
camCap	<boolean>	Define if camera support the objectSize detection argument.	4 and onward
ssCap	<boolean>	Define if surveillance station support the objectSize detection argument.	4 and onward
minValue	<integer>	Define the minimum value of objectSize.	4 and onward
maxValue	<integer>	Define the maximun value of objectSize.	4 and onward
value	<integer>	Define the current value of objectSize.	4 and onward

<Percentage Object> Definition:

Key	Value	Description	Availability
camCap	<boolean>	Define if camera support the percentage detection argument.	4 and onward
ssCap	<boolean>	Define if surveillance station support the percentage detection argument.	4 and onward
minValue	<integer>	Define the minimum value of percentage.	4 and onward
maxValue	<integer>	Define the maximun value of percentage.	4 and onward
value	<integer>	Define the current value of percentage.	4 and onward

Example:

```
{
    "MDParam": {
        "objectSize": {
            "camCap": true,
            "minValue": 0,
            "maxValue": 100,
            "value": 50,
            "ssCap": false
        },
        "sensitivity": {
            "camCap": true,
            "minValue": 0,
            "maxValue": 100,
            "value": 50,
            "ssCap": true
        },
        "keep": true,
        "source": 0,
        "threshold": {
            "camCap": false,
            "minValue": 0,
            "maxValue": 100,
            "value": 50,
            "ssCap": true
        },
        "percentage": {
            "camCap": true,
            "minValue": 0,
            "maxValue": 100,
            "value": 50,
            "ssCap": false
        }
    }
}
```

2.3.5.6 ADParamSave method

Save motion detection parameters. e.g. Sensitivity, Threshold, objectSize and percentage.

Request

Parameter	Value	Description	Availability
camId	<integer>	The selected camera id.	4 and onward
source	<integer>	*Optional.* Define the detection source. e.g. -1:disable, 0:by_camera and 1:by_surveillance.	4 and onward
keep	<boolean>	*Optional.* Define the keep thie camera original setting.	4 and onward
level	<integer>	*Optional.* Define the level number.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
camId=280&version="1"&level=90&keep=true&source=0&api="SYNO.SurveillanceStation.Camera.Event"&
method="ADParamSave"
```

Response

Key	Value	Description	Availability
camId	<integer>	The selected camera id.	4 and onward

Example:

```
{
    "camId": 280
}
```

2.3.5.7 DIParamSave method

Save digital input parameters. e.g. normal

Request

Parameter	Value	Description	Availability
camId	<integer>	The selected camera id.	4 and onward
idx	<integer>	Define digital input index.	4 and onward
keep	<boolean>	*Optional.* Define the keep thie camera original setting.	4 and onward
normal	<integer>	*Optional.* Define the normal status. e.g. 0:open_circuit, 1:ground_circuit	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
camId=280&version="1"&idx=0&normal=0&keep=true&api="SYNO.SurveillanceStation.Camera.Event"&me
thod="DIParamSave"
```

Response

Key	Value	Description	Availability
camId	<integer>	The selected camera id.	4 and onward

Example:

```
{
    "camId": 280
}
```

2.3.5.8 AlarmStsPolling method

Enumerate alarm trigger state list.

Request

Parameter	Value	Description	Availability
camId	<integer>	The selected camera id.	4 and onward
timeOut	<integer>	*Optional.* Define the maximum waiting time for polling alarm trigger status if no changed.	4 and onward
list	Array of <AlarmStateList>	*Optional.* Define the keep thie camera original setting.	4 and onward

< AlarmStateList Object> Definition:

Key	Value	Description	Availability
idx	<integer>	The index of alarm.	4 and onward
trigger	<integer>	The trigger state of this alarm. e.g. 0:untrigger, 1:triggered.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?camId=280&version="1"&list=[{"trigger": 0, "idx":
0}]&api="SYNO.SurveillanceStation.Camera.Event"&timeOut=5000&method="AlarmStsPolling"
```

Response

Key	Value	Description	Availability
list	Array of <AlarmStateList>	The updated alarm state list.	4 and onward

Example:

```
{
    "list": [
        {
            "trigger": 0,
            "idx": 0
        }
    ]
}
```

2.3.5.9 TDParamSave method

Save tampering detection parameters. e.g. Duration

Request

Parameter	Value	Description	Availability
camId	<integer>	The selected camera id.	4 and onward
source	<integer>	*Optional.* Define the detection source. e.g. -1:disable, 0:by_camera.	4 and onward
keep	<boolean>	*Optional.* Define the keep thie camera original setting.	4 and onward
duration	<integer>	*Optional.* Define the duration number.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
camId=280&api="SYNO.SurveillanceStation.Camera.Event"&keep=true&source=0&version="1"&duration=
90&method="TDParamSave"
```

Response

Key	Value	Description	Availability
camId	<integer>	The selected camera id.	4 and onward

Example:

```
{
    "camId": 280
}
```

2.3.5.10 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.
402	Camera disabled.
407	CMS closed.

2.3.6 SYNO.SurveillanceStation.Camera.Group

This API provides operations for camera groups

API Name	Version	Availability
SYNO.SurveillanceStation.Camera.Group	1	Surveillance Station 7.0

Method Name	Section	Availability
Enum	2.3.6.1	4 and onward
Save	2.3.6.2	4 and onward
Delete	2.3.6.3	4 and onward

2.3.6.1 Enum method

Enumerate group information. e.g. Group list and camera list in the group.

Request

Parameter	Value	Description	Availability
privCamType	<integer>	The privilege type in enumeration groups.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Camera.Group"&privCamType=1&version="1"&method="Enum"
```

Response

Key	Value	Description	Availability
allCamGrpInfo	Array of <allCamGrpInfo Object>	The list of all groups.	4 and onward
data	Array of <data Object>	The group list in the seleted privilege and the camera list in this group.	4 and onward

<allCamGrpInfo Object> definition:

Key	Value	Description	Availability
dsId	<integer>	The DS ID of the group.	4 and onward
id	<integer>	The group ID	4 and onward
name	<string>	The name of the group.	4 and onward
uniqueId	<string>	True unique ID of the group.	4 and onward

<data Object> definition:

Key	Value	Description	Availability
CamList	Array of <CamList Object>	The camera list of the group.	4 and onward
dsId	<integer>	The DS ID of the group.	4 and onward

id	<integer>	The group ID	4 and onward
name	<string>	The name of the group.	4 and onward
desc	<string>	The description of the group.	4 and onward
uniqueId	<string>	True unique ID of the group.	4 and onward

<CamList Object> definition:

Key	Value	Description	Availability
dsId	<integer>	The DS ID of the camera.	4 and onward
id	<integer>	The camera ID	4 and onward
name	<string>	The name of the camera.	4 and onward
camIdOnRecServer	<integer>	True camera ID on the recording server.	4 and onward
dsName	<string>	The DS name of the camera.	4 and onward
dsStatus	<integer>	The DS status of the camera.	4 and onward
ip	<string>	The IP address of the camera.	4 and onward
preview	<string>	The webAPI preview path of the camera.	4 and onward
Resolution	<string>	The resolution of the camera.	4 and onward

Example:

```
{
"data": {
    "allCamGrpInfo": [
        {
            "dsId": 0,
            "id": 1,
            "uniqueId": "0 1",
            "name": "GrpName"
        }
    ],
    "data": [
        {
            "name": "GrpName",
            "uniqueId": "0 1",
            "camList": [
                {
                    "status": 1,
                    "dsStatus": 0,
                    "ip": "192.168.0.1",
                    "camIdOnRecServer": 0,
                    "dsName": "Local",
                    "resolution": "640x480",
                    "preview":
"/webapi/__________________________________________________________entry.cgi?
api=SYNO.SurveillanceStation.Camera&method=GetSnapshot",
                    "dsId": 0,
                    "id": 9,
                    "name": "CameraName"
                }
            ],
            "dsId": 0,
            "id": 1,
            "desc": "GrpDesc"
        }
    ]
}
```

2.3.6.2 Save method

Save the specific groups.

Request

Parameter	Value	Description	Availability
groupList	Array of <groupList Object>	The Saved group list.	4 and onward

<allCamGrpInfo Object> definition:

Key	Value	Description	Availability
camList	Array of <CamList Object>	The camera list of the group.	4 and onward
id	<integer>	The group ID	4 and onward
name	<string>	The name of the group.	4 and onward
desc	<string>	The description of the group.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?groupList=[{"camList": [{"camIdOnRecServer": 0, "dsName":
"DS_Name", "dsId": 4, "id": 10, "name": "CameraName"}], "desc": "GrpDesc", "id": 9, "name":
"GrpName"}]&api="SYNO.SurveillanceStation.Camera.Group"&version="1"&method="Save"
```

Response

Key	Value	Description	Availability
groupList	Array of <groupList Object>	The Saved group list.	4 and onward

Example:

```
{
    "groupList": [
        {
            "camList": [
                {
                    "camIdOnRecServer": 0,
                    "dsName": "DS_Name",
                    "dsId": 4,
                    "id": 10,
                    "name": "CameraName"
                }
            ],
            "desc": "GrpDesc",
            "id": 9,
            "name": "GrpName"
        }
    ]
}
```

2.3.6.3 Delete method

Delete the specific groups.

Request

Parameter	Value	Description	Availability
Id	<string>	The deleted group ID list in a string format. ex: "1,3,9"	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Camera.Group"&id="1"&version="1"&method="Delete"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.6.4 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.
402	Camera disabled.
407	CMS closed.

2.3.7 SYNO.SurveillanceStation.Camera.Import

This API provides operations for importing camera

API Name	Version	Availability
SYNO.SurveillanceStation.Camera.Import	1	Surveillance Station 7.0

Method Name	Section	Availability
Save	2.3.7.1	4 and onward
ArchiveCamEnum	2.3.7.2	4 and onward
ArchiveEnum	2.3.7.3	4 and onward

2.3.7.1 Save method

Enumerate group information. e.g. Group list and camera list in the group.

Request

Parameter	Value	Description	Availability
camServerId	<integer>	The privilege type in enumeration groups.	4 and onward
shareName	<string>	The share folder which contains the archive	4 and onward
archiveName	<string>	The name of the archive	4 and onward
camlist	Array of <CamImportList Object>	The detail object of the import	4 and onward
actFromHost	<boolean>	Is the method called by CMS host	4 and onward

<CamImportList Object> definition:

Key	Value	Description	Availability
channel	<string>	Channel of the camera	4 and onward
checked	<boolean>	Indicating if the camera is chosen	4 and onward
enable_quota	<boolean>	Indicating if the replacing strategy "rotation_by_space" is enabled	4 and onward
folder	<string>	Path to the recorded video	4 and onward
id	<integer>	Camera id	4 and onward
idx	<integer>	The index in the archive	4 and onward
ipaddr	<string>	ip address of the camera	4 and onward
model	<string>	The camera model	4 and onward
name	<string>	The name of the camera	4 and onward
port	<integer>	Port of the Camera	4 and onward
rotatequota	<integer>	Parameter of the replacing strategy if enable_quota is true	4 and onward
vendor	<string>	Vendor of the camera	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
archiveName="SSCamExport_XD"&version="1"&camServerId=0&shareName="kuoDownload"&api="SYNO.
SurveillanceStation.Camera.Import"&actFromHost=false&camlist=[{"model": "ICS8220", "vendor": "iPUX",
"enable_quota": true, "rotatequota": 10, "id": 5, "checked": true, "name": "rbxTesting-001", "idx": 0,
"ipaddr": "10.13.11.189", "port": 80, "folder": "rbxTesting-001", "channel": "1"}]&method="Save"
```

Response

Key	Value	Description	Availability
camera	Array of <Camera Information Object>	The detail object of camera information	4 and onward
keyUsedCnt	<integer>	The total key used in the CMS system	4 and onward

Example:

```
{
        "camera": [
            {
                "audioOut": true,
                "mute": false,
                "recStatus": 0,
                "analyticsType": 0,
                "ptzCap": 111,
                "audioType": 4,
                "ptzContinuous": 39,
                "is_rotated_by_date": false,
                "ADCap": 5,
                "blLiveviewPriv": true,
                "videoCapList": [
                    {
                        "stList": [
                            "RTSP"
                        ],
                        "vt": "H.264"
                    },
                    {
                        "stList": [
                            "HTTP"
                        ],
                        "vt": "MJPEG"
                    }
                ],
                "isStatusUnrecognized": false,
                "is_rotated_by_space": true,
                "osd_position": 6,
                "fisheyeType": 0,
                "recBitrateCtrl": 1,
                "video_mirror": true,
                "vendor": "AXIS",
                "video_rotation": 0,
                "stmFisheyeType": 0,
        "dsPort": 5000,
        "TDCap": 0,
        "camMountType": 0,
        "exposure_control": 6,
        "name": "P5415-E-0011",
        "ownerDsId": 0,
        "osd_status": true,
        "fisheyeDispMode": "",
        "channel_id": "1",
        "setDICap": false,
        "param_chklist": 0,
        "analyticsBeep": false,
        "status_flags": 32,
        "feRegionList": [],
        "objTrack": false,
        "port": 80,
        "video_flip": true,
        "osd_format": 0,
        "autoPan": 0,
        "deleted": false,
        "deviceType": 4,
        "hasCamParam": true,
        "DINum": 2,
        "snapshot_path":
"/webapi/____________________________________________________________entry.cgi?
api=SYNO.SurveillanceStation.Camera&method=GetSnapshot&version=1&cameraId=70×tamp=142491912
9&preview=true",
        "dsIp": "",
        "host": "10.13.12.165",
        "rotation_by_date": 30,
        "autoFocus": true,
        "volume_space": "9.617",
        "analyticsHeight": 0,
        "MDCap": 5,
        "rotation_by_space": "10",
        "analyticsVirtualFence": false,
        "analyticsObjSize": 0,
        "analyticsDirection": 1,
        "analyticsRegion": "",
        "quality": "5",
        "multiDI": false,
        "type": 3,
        "stm_info": [
          {
            "resolution": "800x450",
            "quality": "5",
            "fps": 10,
            "type": 0
          },
          {
            "resolution": "800x450",
                "quality": "5",
                "fps": 10,
                "type": 1
            },
            {
                "resolution": "800x450",
                "quality": "5",
                "fps": 10,
                "type": 2
            }
        ],
        "camLiveMode": 0,
        "volume": 50,
        "ptzDirection": 32,
        "dayend": 18,
        "folder": "/var/services/surveillance/P5415-E-001",
        "tvStandard": 0,
        "singleStream": false,
        "imageEnhancement": {
            "saturation": 0,
            "sharpness": 0,
            "contrast": 0,
            "brightness": 0
        },
        "audioCap": true,
        "camIdOnRecServer": 0,
        "detailInfo": {
            "camRecTime": 30,
            "edgeStgEnabled": false,
            "camIsRotByDate": false,
            "camRecStreamNo": 0,
            "camRotByDate": 30,
            "camTvStandard": 0,
            "camMountType": 0,
            "camRecCbrBitrate": 1000,
            "camIsRotBySpace": true,
            "camLiveResolution": "800x450",
            "camRecBitrateCtrl": 1,
            "camMobileStreamNo": 0,
            "camLiveQuality": "5",
            "edgeStgRecStopTime": "23:59",
            "camLiveStreamNo": 0,
            "camResolution": "800x450",
            "camMobileQuality": "5",
            "camLiveMode": 0,
            "camPreRecTime": 5,
            "camIP": "10.13.12.165",
            "camLiveBitrateCtrl": 1,
            "camModel": "P5415-E",
            "edgeStgRecStartTime": "00:00",
            "camPostRecTime": 5,
                    "camLiveCbrBitrate": 1000,
                    "camMobileResolution": "800x450",
                    "camUserName": "root",
                    "camFps": 10,
                    "camVendor": "AXIS",
                    "camMobileFps": 10,
                    "camFov": "",
                    "camMobileCbrBitrate": 1000,
                    "camRotBySpace": 10,
                    "edgeStgDownloadSch":
[0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0],
                    "customAlarmDetect": 3,
                    "camLiveFps": 10,
                    "camChannel": "1",
                    "camRotOption": 0,
                    "camQuality": "5",
                    "camPrefix": "P5415-E-001",
                    "edgeStgRetrieveAction": 2,
                    "camSchedule":
[1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1
,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1,1,1,1],
                    "edgeStgRecMode": 2,
                    "customDetect": 5,
                    "camPassWord": "%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC
%83%EF%BC%83%EF%BC%83",
                    "camVideoType": "H.264",
                    "camMobileBitrateCtrl": 1,
                    "MdDetSrc": 0,
                    "camServer": 0,
                    "camFolder": "P5415-E-001",
                    "edgeStgRecDays": 127,
                    "camPort": 80,
                    "camRtspProtocol": 4,
                    "camName": "P5415-E-0011",
                    "camAudioType": 4
                },
                "enabled": true,
                "analyticsSens": 1,
                "analyticsWidth": 0,
                "recCbrBitrate": 1000,
                "blPresetSpeed": false,
                "DONum": 0,
                "id": 70,
                "setDOCap": false,
                "analyticsFrame": true,
                "analyticsLine": false,
                "daybegin": 8,
                "fps": 10,
                "status": 1,
                "update_time": 1424919129,
                "exposure_mode": 4,
                "time_server": "",
                "rotation_option": 0,
                "presetNum": 32,
                "camStatus": 9,
                "analyticsDwellTime": 5,
                "camPath":
"cnRzcDovL3Jvb3Q6bmF0bWFzdGVyQDEwLjEzLjEyLjE2NTo1NTQvYXhpcy1tZWRpYS9tZWRpYS5hbXA/Y2FtZ
XJhPTEmdmlkZW9jb2RlYz1oMjY0JnJlc29sdXRpb249ODAweDQ1MCZmcHM9MTAmdmlkZW9rZXlmcmFtZWl
udGVydmFsPTEwJmNvbXByZXNzaW9uPTIw",
                "model": "P5415-E",
                "resolution": "800x450"
            }
        ],
        "keyUsedCnt": 8
    }
```

2.3.7.2 ArchiveCamEnum method

Enumerating cameras in the selected archive

Request

Parameter	Value	Description	Availability
shareName	<string>	The share folder which stores archives	4 and onward
archiveName	<string>	The target archive	4 and onward
serverId	<integer>	The destination DS which camera imports to	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
archiveName="SSCamExport_XD"&version="1"&shareName="kuoDownload"&api="SYNO.SurveillanceStati
on.Camera.Import"&serverId=1&method="ArchiveCamEnum"
```

Response

Key	Value	Description	Availability
camlist	Array of <CamImportList Object>	The imported cameras	4 and onward

Example:

```
{
    "camlist": [
        {
            "vendor": "iPUX",
            "enable_quota": true,
            "rotatequota": 10,
            "folder": "rbxTesting-001",
            "checked": false,
            "name": "rbxTesting-001",
            "idx": 0,
            "ipaddr": "10.13.11.189",
            "id": 5,
            "port": 80,
            "model": "ICS8220",
            "channel": "1"
        }
    ]
}
```

2.3.7.3 ArchiveEnum method

Enumerate archives in the selected folder

Request

Parameter	Value	Description	Availability
shareName	<string>	Folder selected to enumerate the archives	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
shareName="testingFolder"&api="SYNO.SurveillanceStation.Camera.Import"&version="1"&method="ArchiveEnum"
```

Response

Key	Value	Description	Availability
archivelist	Array of <Archive Object>	The archives inside the folder	4 and onward

<CamImportList Object> definition:

Key	Value	Description	Availability
display	<string>	The display name of the archive	4 and onward
value	<string>	The folder name of the archive	4 and onward

2.3.7.4 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.
402	Camera disabled.
407	CMS closed.

2.3.8 SYNO.SurveillanceStation.Camera.Wizard

This API provides Saving/Editing operations for camera

API Name	Version	Availability
SYNO.SurveillanceStation.Camera.Wizard	1	Surveillance Station 7.0

Method Name	Section	Availability
CamSaveAll	2.3.8.1	4 and onward
CheckSDCardSize	2.3.8.2	4 and onward
CheckQuota	2.3.8.3	4 and onward
CamBatAddSaveAll	2.3.8.4	4 and onward
FormatSDCard	2.3.8.5	4 and onward
QuickCreate	2.3.8.6	4 and onward

2.3.8.1 CamSaveAll method

Save the configuration of the camera when adding or editing.

Request

Parameter	Value	Description	Availability
data	<CamEdit Object>	The editing object	4 and onward
camId	<integer>	The camera id	4 and onward
actFromHost	<boolean>	*Optional*. Is this method called from CMS host	4 and onward

<CamEdit Object> definition:

Key	Value	Description	Availability
camServerId	<integer>	The DS Id on which the camera is mounted	4 and onward
camId	<integer>	Camera id noted in the database of server	4 and onward
camName	<string>	Camera name	4 and onward
camIP	<string>	IP address of the camera	4 and onward
camPort	<string>	Port of the camera	4 and onward
camDevice	<string>	Containing vendor and model information	4 and onward
camTvStandard	0, 1, 2	Indicating the TV Standard • 0: NTSC • 1: PAL • 2: NONE	4 and onward
camChannel	<string>	The channel of the stream	4 and onward
camSourcePath	<string>	Path to the camera	4 and onward
camUserName	<string>	The user to access the camera	4 and onward
camPassWord	<string>	Password of the user	4 and onward
camFolder	<string>	Folder to store configuration, video.	4 and onward
camPrefix	<string>	The prefix of the recording file name	4 and onward

blEditBeforeEn	<boolean>	Indicating to disable other cameras with the same IP or not before editing	4 and onward
camVideoType	<string>	Indicating video type • 0: UNKNOWN • 1: MJPEG • 2: MPEG4 • 3: H264 • 4: EMAP • 5: MXPEG	4 and onward
camStreamingType	<string>	The streaming protocol, HTTP/RTSP	4 and onward
camIsEnableAudio	<boolean>	Is audio enabled	4 and onward
camAudioType	0 … 5	Indicating audio type • 0: UNKNOWN • 1: PCM • 2: G711 • 3: G726 • 4: AAC • 5: AMR	4 and onward
camFov	<string>	Field of view of the camera	4 and onward
camRecStreamNo	<integer>	Stream number of recording stream	4 and onward
camResolution	<string>	The resolution of recording stream	4 and onward
camFps	<string>	The fps of recording stream	4 and onward
camRecBitrateCtrl	0, 1, 2	Indicating the bitrate of recording stream • 0: NONE • 1: Variable • 2: Constant	4 and onward
camQuality	<string>	The quality of live stream	4 and onward
camRecCbrBitrate	<integer>	A constant indicating the bitrate	4 and onward
camLiveStreamNo	<integer>	Stream number of live stream	4 and onward
camLiveResolution	<string>	The resolution of live stream	4 and onward
camLiveFps	<string>	The fps of live stream	4 and onward
camLiveBitrateCtrl	0, 1, 2	Indicating the bitrate of live stream • 0: NONE • 1: Variable • 2: Constant	4 and onward
camLiveQuality	<string>	The quality of live stream	4 and onward
camLiveCbrBitrate	<integer>	A constant indicating the bitrate	4 and onward
camMobileStreamNo	<integer>	Stream number of mobile stream	4 and onward
camMobileResolution	<string>	The resolution of mobile stream	4 and onward
camMobileFps	<string>	The fps of mobile stream	4 and onward
camMobileBitrateCtrl	0, 1, 2	Indicating the bitrate of mobile stream • 0: NONE • 1: Variable • 2: Constant	4 and onward
camMobileQuality	<string>	The quality of mobile stream	4 and onward
camMobileCbrBitrate	<integer>	A constant indicating the bitrate	4 and onward
camRecTime	<string>	The recording length in minute	4 and onward
camPreRecTime	<string>	Extra recording time before the start of each recording	4 and onward
camPostRecTime	<string>	Extra recording time after the end of each recording	4 and onward

camIsRotByDate	<boolean>	Does the rotation occur when the limit time is reached	4 and onward
camRotByDate	<string>	The upper bound indicating how long a file can be store before rotation	4 and onward
camIsRotBySpace	<boolean>	Does the rotation occur when the limit space is reached	4 and onward
camRotBySpace	<string>	The upper bound that total file size can reach before rotation	4 and onward
camRotOption	0, 1	Indicating the behavior when the space is full • 0: rotate • 1: stop	4 and onward
edgeStgEnabled	<boolean>	Is the edge storage enabled	4 and onward
edgeStgRecMode	0 … 15	A weighted sum indicating the recording mode • 0x00: NONE • 0x01: CONTINUOUS • 0x02: MD • 0x04: DI • 0x08: AUDIO_DET	4 and onward
edgeStgRecDays	<integer>	Using an weighted sum for verifying which day to record	4 and onward
edgeStgRecStartTime	<string>	The start time of edge storage recording	4 and onward
edgeStgRecStopTime	<string>	The stop time of edge storage recording	4 and onward
edgeStgRetrieve	0, 1, 2	Indicating the retrieving method is • 0: NONE • 1: BySchedule • 2: GetLost	4 and onward
edgeStgDownloadSch	<string>	The downloading schedule for retrieving edge storage	4 and onward
camSchedule	<string>	The recording schedule of the camera, a weighted sum indicates the recording schedule at each half hour	4 and onward
customDetect	<integer>	Determining the type of motion detection in the schedule field	4 and onward
customAlarmDetect	<integer>	Determining the type of alarm in the schedule field	4 and onward
camLiveMode	0, 1	Determining the source of live view • 0: DS • 1: Camera	4 and onward
camMountType	<string>	How camera is mounted • 0: CEILING • 1: WALL • 2: FLOOR	4 and onward
camRtspProtocol	<string>	Indicating the protocol of RTSP is NONE/UDP/TCP/HTTP/Auto	4 and onward
mdDetSrc	<string>	The provider of motion detection, from either camera or SurveillanceStation	4 and onward
uiStmNoList	<string>	List indicating stream number of live video, recording video, mobile video respectively	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
camId=72&version="1"&api="SYNO.SurveillanceStation.Camera.Wizard"&actFromHost=false&data={"camR
ecTime": "30", "edgeStgEnabled": false, "camIsRotByDate": false, "camRotByDate": "30", "camDevice":
"ABUS TVIP20000", "camLiveBitrateCtrl": 1, "camTvStandard": 0, "camRecCbrBitrate": 1000,
"camIsRotBySpace": true, "camLiveResolution": "640x480", "camRecBitrateCtrl": 1, "camMobileStreamNo":
0, "camLiveQuality": "5", "edgeStgRecStopTime": "01:00", "camLiveStreamNo": 0, "camResolution":
"640x480", "camMobileQuality": "5", "camIsEnableAudio": true, "camPrefix": "TVIP20000-001", "camIP":
"10.13.12.200", "camStreamingType": "RTSP", "camMountType": "0", "camSourcePath": "",
"edgeStgRecStartTime": "00:00", "camRecStreamNo": 0, "camId": 72, "camLiveCbrBitrate": 1000,
"camMobileResolution": "640x480", "camUserName": "admin", "blEditBeforeEn": false, "camFps": "10",
"uiStmNoList": "1,1,1", "camMobileFps": "10", "camFov": "", "camMobileCbrBitrate": 1000,
"camRotBySpace": "10", "edgeStgDownloadSch":
"1111111111111111111111111111111111111111111111111111111111111111111111111111111111111
11111111111111111111111111111111111111111111111111111111111111111111111111111111111111
11111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111",
"customAlarmDetect": 0, "camLiveFps": "10", "camChannel": "1", "customDetect": 1, "camRotOption": 0,
"camQuality": "5", "camPreRecTime": "5", "camPostRecTime": "5", "camSchedule":
"1111111111111111111111111111111111111111111111111111111111111111111111111111111111111
11111111111111111111111111111111111111111111111111111111111111111111111111111111111111
11111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111",
"edgeStgRecMode": 1, "camServerId": 0, "camPassWord": "", "camVideoType": "MPEG4", "camLiveMode":
0, "camMobileBitrateCtrl": 1, "camFolder": "TVIP20000-001", "edgeStgRetrieve": 2, "edgeStgRecDays": 127,
"camPort": "80", "camRtspProtocol": "2", "camName": "TVIP20000-001", "mdDetSrc": "-1",
"camAudioType": 2}&method="CamSaveAll"
```

Response

Key	Value	Description	Availability
camId	<integer>	Id of the camera	4 and onward
camera	Array of <Camera Information Object>	Detail Information about the camera object	4 and onward
editTime	<integer>	The last time for editing the camera	4 and onward
keyUsedCnt	integer	Total used key in the CMS system	4 and onward
success	boolean	Indicating if the editing process is completed	4 and onward

Example:

```
{
    "camId": 80,
    "editTime": 1424919126,
    "camera": [
      {
        "audioOut": true,
        "mute": false,
        "recStatus": 0,
        "analyticsType": 0,
        "ptzCap": 111,
                "audioType": 4,
                "ptzContinuous": 39,
                "is_rotated_by_date": false,
                "ADCap": 5,
                "blLiveviewPriv": true,
                "videoCapList": [
                    {
                        "stList": [
                            "RTSP"
                        ],
                        "vt": "H.264"
                    },
                    {
                        "stList": [
                            "HTTP"
                        ],
                        "vt": "MJPEG"
                    }
                ],
                "isStatusUnrecognized": false,
                "is_rotated_by_space": true,
                "osd_position": 6,
                "fisheyeType": 0,
                "recBitrateCtrl": 1,
                "video_mirror": true,
                "vendor": "AXIS",
                "video_rotation": 0,
                "stmFisheyeType": 0,
                "dsPort": 5000,
                "TDCap": 0,
                "camMountType": 0,
                "exposure_control": 6,
                "name": "P5415-E-0011",
                "ownerDsId": 0,
                "osd_status": true,
                "fisheyeDispMode": "",
                "channel_id": "1",
                "setDICap": false,
                "param_chklist": 0,
                "analyticsBeep": false,
                "status_flags": 32,
                "feRegionList": [],
                "objTrack": false,
                "port": 80,
                "video_flip": true,
                "osd_format": 0,
                "autoPan": 0,
                "deleted": false,
                "deviceType": 4,
                "hasCamParam": true,
                "DINum": 2,
        "snapshot_path":
"/webapi/_______________________________________________________entry.cgi?
api=SYNO.SurveillanceStation.Camera&method=GetSnapshot&version=1&cameraId=70×tamp=142491912
9&preview=true",
        "dsIp": "",
        "host": "10.13.12.165",
        "rotation_by_date": 30,
        "autoFocus": true,
        "volume_space": "9.617",
        "analyticsHeight": 0,
        "MDCap": 5,
        "rotation_by_space": "10",
        "analyticsVirtualFence": false,
        "analyticsObjSize": 0,
        "analyticsDirection": 1,
        "analyticsRegion": "",
        "quality": "5",
        "multiDI": false,
        "type": 3,
        "stm_info": [
          {
            "resolution": "800x450",
            "quality": "5",
            "fps": 10,
            "type": 0
          },
          {
            "resolution": "800x450",
            "quality": "5",
            "fps": 10,
            "type": 1
          },
          {
            "resolution": "800x450",
            "quality": "5",
            "fps": 10,
            "type": 2
          }
        ],
        "camLiveMode": 0,
        "volume": 50,
        "ptzDirection": 32,
        "dayend": 18,
        "folder": "/var/services/surveillance/P5415-E-001",
        "tvStandard": 0,
        "singleStream": false,
        "imageEnhancement": {
          "saturation": 0,
          "sharpness": 0,
          "contrast": 0,
          "brightness": 0
```

```
                },
                "audioCap": true,
                "camIdOnRecServer": 0,
                "detailInfo": {
                    "camRecTime": 30,
                    "edgeStgEnabled": false,
                    "camIsRotByDate": false,
                    "camRecStreamNo": 0,
                    "camRotByDate": 30,
                    "camTvStandard": 0,
                    "camMountType": 0,
                    "camRecCbrBitrate": 1000,
                    "camIsRotBySpace": true,
                    "camLiveResolution": "800x450",
                    "camRecBitrateCtrl": 1,
                    "camMobileStreamNo": 0,
                    "camLiveQuality": "5",
                    "edgeStgRecStopTime": "23:59",
                    "camLiveStreamNo": 0,
                    "camResolution": "800x450",
                    "camMobileQuality": "5",
                    "camLiveMode": 0,
                    "camPreRecTime": 5,
                    "camIP": "10.13.12.165",
                    "camLiveBitrateCtrl": 1,
                    "camModel": "P5415-E",
                    "edgeStgRecStartTime": "00:00",
                    "camPostRecTime": 5,
                    "camLiveCbrBitrate": 1000,
                    "camMobileResolution": "800x450",
                    "camUserName": "root",
                    "camFps": 10,
                    "camVendor": "AXIS",
                    "camMobileFps": 10,
                    "camFov": "",
                    "camMobileCbrBitrate": 1000,
                    "camRotBySpace": 10,
                    "edgeStgDownloadSch":
[0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0],
                    "customAlarmDetect": 3,
                    "camLiveFps": 10,
                    "camChannel": "1",
                    "camRotOption": 0,
                    "camQuality": "5",
                    "camPrefix": "P5415-E-001",
                    "edgeStgRetrieveAction": 2,
                    "camSchedule":
[1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1
,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1,1,1,1],
                    "edgeStgRecMode": 2,
                    "customDetect": 5,
                    "camPassWord": "%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC
%83%EF%BC%83%EF%BC%83",
                    "camVideoType": "H.264",
                    "camMobileBitrateCtrl": 1,
                    "MdDetSrc": 0,
                    "camServer": 0,
                    "camFolder": "P5415-E-001",
                    "edgeStgRecDays": 127,
                    "camPort": 80,
                    "camRtspProtocol": 4,
                    "camName": "P5415-E-0011",
                    "camAudioType": 4
                },
                "enabled": true,
                "analyticsSens": 1,
                "analyticsWidth": 0,
                "recCbrBitrate": 1000,
                "blPresetSpeed": false,
                "DONum": 0,
                "id": 70,
                "setDOCap": false,
                "analyticsFrame": true,
                "analyticsLine": false,
                "daybegin": 8,
                "fps": 10,
                "status": 1,
                "update_time": 1424919129,
                "exposure_mode": 4,
                "time_server": "",
                "rotation_option": 0,
                "presetNum": 32,
                "camStatus": 9,
                "analyticsDwellTime": 5,
                "camPath":
"cnRzcDovL3Jvb3Q6bmF0bWFzdGVyQDEwLjEzLjEyLjE2NTo1NTQvYXhpcy1tZWRpYS9tZWRpYS5hbXA/Y2FtZ
XJhPTEmdmlkZW9jb2RlYz1oMjY0JnJlc29sdXRpb249ODAweDQ1MCZmcHM9MTAmdmlkZW9rZXlmcmFtZWl
udGVydmFsPTEwJmNvbXByZXNzaW9uPTIw",
                "model": "P5415-E",
                "resolution": "800x450"
            }
        ],
        "keyUsedCnt": 8,
        "success": true
    }
```

2.3.8.2 CheckSDCardSize method

Check the available size in SD card

Request

Parameter	Value	Description	Availability
camId	<integer>	Specified camera ID	4 and onward
host	<string>	Address of the camera	4 and onward
port	<string>	Port of the camera	4 and onward
user	<string>	The user who tries to log in	4 and onward
pass	<string>	The Correlated password	4 and onward
vendor	<string>	Vendor of the camera	4 and onward
model	<string>	Model of the camera	4 and onward
ch	<string>	*Optional*. parameter for decoding real password	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
camId=62&vendor="AXIS"&version="1"&api="SYNO.SurveillanceStation.Camera.Wizard"&method="Check
SDCardSize"&host="10.13.12.165"&ch="1"&user="root"&pass="%EF%BC%83%EF%BC%83%EF%BC%83%EF
%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83"&model="P5415-E"&port="80"
```

Response

Key	Value	Description	Availability
size	<integer>	The remaining size of the SD card in KB	4 and onward
status	<integer>	The status of the camera	4 and onward

Example:

```
{
    "status": 0,
    "size": 29022484
}
```

2.3.8.3 CheckQuota method

This method enables users to check the usage of the licence

Request

This method specifies no parameter for request.

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Camera.Wizard"&version="1"&method="CheckQuota"
```

Response

Key	Value	Description	Availability
iKeyTotal	<integer>	Total amount of licence in the CMS system	4 and onward
iKeyUsed	<integer>	Used amount of licence in the CMS system	4 and onward
localCamNum	<integer>	Used amount of licence in the local DS	4 and onward
localMaxCamNum	<integer>	The maximal number of camera that can be mount at current platform	4 and onward

Example:

```
{
    "localMaxCamNum": 10,
    "iKeyUsed": 2,
    "iKeyTotal": 12,
    "localCamNum": 0
}
```

2.3.8.4 CamBarAddSaveAll method

This API saves the configuration from batch add

Request

Parameter	Value	Description	Availability
camServerId	<integer>	The DS id on which cameras mounted	4 and onward
data	<CamBatAdd Object>	The data of To-Be-Added cameras	4 and onward

<CamBatAdd Object> definition:

Key	Value	Description	Availability
camList	Array of <CamCreate Object>	The list of To-Be-Added cameras	4 and onward
tvStandard	<string>	Standard of the input video	4 and onward
camMountType	<string>	How camera is mounted • 0: CEILING	4 and onward

		• 1: WALL • 2: FLOOR	
camChannel	<string>	Channel of the output video	4 and onward
name	<string>	The type of the creation	4 and onward

<CamCreate Object> definition:

Key	Value	Description	Availability
vendor	<string>	Vendor of the camera	4 and onward
model	<string>	Model of the camera	4 and onward
ip	<string>	IP address of the camera	4 and onward
port	<integer>	port of the camera	4 and onward
username	<string>	The user trying to access the camera	4 and onward
password	<string>	Password of the user	4 and onward
name	<string>	The name of the camera stored in the database	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
camId=62&vendor="AXIS"&version="1"&api="SYNO.SurveillanceStation.Camera.Wizard"&method="Check
SDCardSize"&host="10.13.12.165"&ch="1"&user="root"&pass="%EF%BC%83%EF%BC%83%EF%BC%83%EF
%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83"&model="P5415-
E"&port="80"http://192.168.1.1:5000/webapi/entry.cgi?
camServerId=0&api="SYNO.SurveillanceStation.Camera.Wizard"&data={"camChannel": "", "camList":
[{"username": "admin", "vendor": "ABUS", "name": "TVIP20000-001", "ip": "10.13.12.200", "model":
"TVIP20000", "password": "synoss", "port": 80}, {"username": "root", "vendor": "AXIS", "name": "P5415-E-
001", "ip": "10.13.12.165", "model": "P5415-E", "password": "natmaster", "port": 80}, {"username":
"admin", "vendor": "iPUX", "name": "ICS8220-001", "ip": "10.13.11.195", "model": "ICS8220", "password":
"admin", "port": 80}], "camMountType": "", "mode": "quick", "tvStandard":
""}&version="1"&method="CamBatAddSaveAll"
```

Response

Key	Value	Description	Availability
pid	<integer>	The process id for other API to trace the creation process	4 and onward

Example:

```
{
   "pid": 3585
}
```

2.3.8.5 FormatSDCard method

Format the SD card in the specified camera which offers edge storage service

Request

Parameter	Value	Description	Availability
camId	<integer>	Specified camera ID	4 and onward
host	<string>	Address of the camera	4 and onward
port	<string>	Port of the camera	4 and onward
user	<string>	The user who tries to log in	4 and onward
pass	<string>	The Correlated password	4 and onward
vendor	<string>	Vendor of the camera	4 and onward
model	<string>	Model of the camera	4 and onward
ch	<string>	*Optional*. parameter for decoding real password	4 and onward
timeout	integer	Setting the expired time in seconds	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
camId=62&vendor="AXIS"&version="1"&api="SYNO.SurveillanceStation.Camera.Wizard"&method="Forma
tSDCard"&host="10.13.12.165"&ch="1"&user="root"&timeout=300&pass="%EF%BC%83%EF%BC%83%EF
%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83"&model="P5415-E"&port="80"
```

Response

Key	Value	Description	Availability
result	<integer>	The occupied space in the SD card	4 and onward

Example:

```
{
   "result": 0
}
```

2.3.8.6 QuickCreate method

This API provides the capability of quick-creating single camera

Request

Parameter	Value	Description	Availability
camServerId	<integer>	The DS id on which this camera mounted	4 and onward
actFromHost	<boolean>	Indicating if the api is called from CMS host	4 and onward
camStreamingType	<string>	The streaming protocol of the camera	4 and onward
camName	<string>	User-defined name of the camera	4 and onward
camIP	<string>	IP address of the camera	4 and onward

camPort	<string>	Port of the camera	4 and onward
camVendor	<string>	Vendor of the camera	4 and onward
camModel	<string>	Model name of the camera	4 and onward
camMountType	<string>	How camera is mounted, for example, on the wall, ceiling	4 and onward
camChannel	<string>	Channel number of the camera	4 and onward
camVideoType	<string>	Video type of the camera	4 and onward
camAudioType	<string>	Indicating audio type • 0: UNKNOWN • 1: PCM • 2: G711 • 3: G726 • 4: AAC • 5: AMR	4 and onward
camSourcePath	<string>	Path of recorded videos	4 and onward
camUserName	<string>	The input camera user	4 and onward
camPassWord	<string>	The input camera password	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
camUserName="admin"&api="SYNO.SurveillanceStation.Camera.Wizard"&camServerId=0&camPassWord=
"%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC
%83"&camVideoType="H.264"&version="1"&camVendor="iPUX"&camPort="80"&camChannel="1"&meth
od="QuickCreate"&camName="xx"&camModel="ICS8220"&camIP="10.13.11.195"&actFromHost=false&ca
mStreamingType="RTSP"&camMountType="0"&camAudioType="2"&camSourcePath="%E4%BD%BF
%E7%94%A8%E9%A0%90%E8%A8%AD%E5%BD%B1%E5%83%8F%E8%B7%AF%E5%BE%91%"
```

Response

Key	Value	Description	Availability
camId	<integer>	The remaining size of the SD card in KB	4 and onward
Camera	Array of <Camera Information Object>	The added camera object	4 and onward
keyUsedCnt	<integer>	The status of the camera	4 and onward

Example:

```
{
    "camId": 80,
    "camera": [
        {
            "audioOut": true,
            "mute": false,
            "recStatus": 0,
            "analyticsType": 0,
            "ptzCap": 111,
            "audioType": 4,
            "ptzContinuous": 39,
        "is_rotated_by_date": false,
        "ADCap": 5,
        "blLiveviewPriv": true,
        "videoCapList": [
          {
            "stList": [
              "RTSP"
            ],
            "vt": "H.264"
          },
          {
            "stList": [
              "HTTP"
            ],
            "vt": "MJPEG"
          }
        ],
        "isStatusUnrecognized": false,
        "is_rotated_by_space": true,
        "osd_position": 6,
        "fisheyeType": 0,
        "recBitrateCtrl": 1,
        "video_mirror": true,
        "vendor": "AXIS",
        "video_rotation": 0,
        "stmFisheyeType": 0,
        "dsPort": 5000,
        "TDCap": 0,
        "camMountType": 0,
        "exposure_control": 6,
        "name": "P5415-E-0011",
        "ownerDsId": 0,
        "osd_status": true,
        "fisheyeDispMode": "",
        "channel_id": "1",
        "setDICap": false,
        "param_chklist": 0,
        "analyticsBeep": false,
        "status_flags": 32,
        "feRegionList": [],
        "objTrack": false,
        "port": 80,
        "video_flip": true,
        "osd_format": 0,
        "autoPan": 0,
        "deleted": false,
        "deviceType": 4,
        "hasCamParam": true,
        "DINum": 2,
        "snapshot_path":
"/webapi/____________________________________________________entry.cgi?
```

```
api=SYNO.SurveillanceStation.Camera&method=GetSnapshot&version=1&cameraId=70×tamp=142491912
9&preview=true",
            "dsIp": "",
            "host": "10.13.12.165",
            "rotation_by_date": 30,
            "autoFocus": true,
            "volume_space": "9.617",
            "analyticsHeight": 0,
            "MDCap": 5,
            "rotation_by_space": "10",
            "analyticsVirtualFence": false,
            "analyticsObjSize": 0,
            "analyticsDirection": 1,
            "analyticsRegion": "",
            "quality": "5",
            "multiDI": false,
            "type": 3,
            "stm_info": [
               {
                   "resolution": "800x450",
                   "quality": "5",
                   "fps": 10,
                   "type": 0
               },
               {
                   "resolution": "800x450",
                   "quality": "5",
                   "fps": 10,
                   "type": 1
               },
               {
                   "resolution": "800x450",
                   "quality": "5",
                   "fps": 10,
                   "type": 2
               }
            ],
            "camLiveMode": 0,
            "volume": 50,
            "ptzDirection": 32,
            "dayend": 18,
            "folder": "/var/services/surveillance/P5415-E-001",
            "tvStandard": 0,
            "singleStream": false,
            "imageEnhancement": {
               "saturation": 0,
               "sharpness": 0,
               "contrast": 0,
               "brightness": 0
            },
            "audioCap": true,
            "camIdOnRecServer": 0,
            "detailInfo": {
                "camRecTime": 30,
                "edgeStgEnabled": false,
                "camIsRotByDate": false,
                "camRecStreamNo": 0,
                "camRotByDate": 30,
                "camTvStandard": 0,
                "camMountType": 0,
                "camRecCbrBitrate": 1000,
                "camIsRotBySpace": true,
                "camLiveResolution": "800x450",
                "camRecBitrateCtrl": 1,
                "camMobileStreamNo": 0,
                "camLiveQuality": "5",
                "edgeStgRecStopTime": "23:59",
                "camLiveStreamNo": 0,
                "camResolution": "800x450",
                "camMobileQuality": "5",
                "camLiveMode": 0,
                "camPreRecTime": 5,
                "camIP": "10.13.12.165",
                "camLiveBitrateCtrl": 1,
                "camModel": "P5415-E",
                "edgeStgRecStartTime": "00:00",
                "camPostRecTime": 5,
                "camLiveCbrBitrate": 1000,
                "camMobileResolution": "800x450",
                "camUserName": "root",
                "camFps": 10,
                "camVendor": "AXIS",
                "camMobileFps": 10,
                "camFov": "",
                "camMobileCbrBitrate": 1000,
                "camRotBySpace": 10,
                "edgeStgDownloadSch":
[0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0],
                "customAlarmDetect": 3,
                "camLiveFps": 10,
                "camChannel": "1",
                "camRotOption": 0,
                "camQuality": "5",
                "camPrefix": "P5415-E-001",
                "edgeStgRetrieveAction": 2,
                "camSchedule":
[1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1
,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1,1,1,1],
                    "edgeStgRecMode": 2,
                    "customDetect": 5,
                    "camPassWord": "%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC
%83%EF%BC%83%EF%BC%83",
                    "camVideoType": "H.264",
                    "camMobileBitrateCtrl": 1,
                    "MdDetSrc": 0,
                    "camServer": 0,
                    "camFolder": "P5415-E-001",
                    "edgeStgRecDays": 127,
                    "camPort": 80,
                    "camRtspProtocol": 4,
                    "camName": "P5415-E-0011",
                    "camAudioType": 4
                },
                "enabled": true,
                "analyticsSens": 1,
                "analyticsWidth": 0,
                "recCbrBitrate": 1000,
                "blPresetSpeed": false,
                "DONum": 0,
                "id": 70,
                "setDOCap": false,
                "analyticsFrame": true,
                "analyticsLine": false,
                "daybegin": 8,
                "fps": 10,
                "status": 1,
                "update_time": 1424919129,
                "exposure_mode": 4,
                "time_server": "",
                "rotation_option": 0,
                "presetNum": 32,
                "camStatus": 9,
                "analyticsDwellTime": 5,
                "camPath":
"cnRzcDovL3Jvb3Q6bmF0bWFzdGVyQDEwLjEzLjEyLjE2NTo1NTQvYXhpcy1tZWRpYS9tZWRpYS5hbXA/Y2FtZ
XJhPTEmdmlkZW9jb2RlYz1oMjY0JnJlc29sdXRpb249ODAweDQ1MCZmcHM9MTAmdmlkZW9rZXlmcmFtZWl
udGVydmFsPTEwJmNvbXByZXNzaW9uPTIw",
                "model": "P5415-E",
                "resolution": "800x450"
            }
        ],
        "keyUsedCnt": 8
}
```

2.3.8.7 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.
402	Camera disabled.
407	CMS closed.

2.3.9 SYNO.SurveillanceStation.PTZ

This API provides a set of methods to execute PTZ action, and to acquire PTZ related information such as patrol list or patrol schedule of a camera.

API Name	Version	Availability
SYNO.SurveillanceStation.PTZ	1	Surveillance Station 6.0-2337
	2	Surveillance Station 6.1
	3	Surveillance Station 6.3

Method Name	Section	Availability
Move	2.3.9.1	1 and onward
Zoom	2.3.9.2	1 and onward
ListPreset	2.3.9.3	1 and onward
GoPreset	2.3.9.4	1 and onward
ListPatrol	2.3.9.5	1 and onward
RunPatrol	2.3.9.6	2 and onward
Focus	2.3.9.7	3 and onward
Iris	2.3.9.8	3 and onward
AutoFocus	2.3.9.9	3 and onward
AbsPtz	2.3.9.10	3 and onward

2.3.9.1 Move method

Control the PTZ camera to move its lens.

Request

Parameter	Value	Description	Availability
cameraId	<CAMERA_ID>	Unique camera ID.	1 and onward
direction	up, down, left, right, dir_n	Direction to move. • up: Move lens up. • down: Move lens down. • left: Move lens left. • right: Move lens right. • dir_n: n is in the range of [0 to ptzDirection-1]	3 and onward
speed	<integer>	*Optional*. 1 to 5 1 slowest 5 fastest	3 and onward
moveType	Start, Stop	*Optional*. Start continous move Stop continous move	3 and onward

Parameter	Description

dir_n	n is an integer. 360 degrees is divided into ptzDirection parts. 0 means direction of right, and the following numbers represent the direction in counterclockwise order. For exmaple, dir_2 is move up for ptz camera which support 8 directions.

Example: Move lens of a camera to left with lowest speed and move continously.

```
GET /webapi/entry.cgi?
api=SYNO.SurveillanceStation.PTZ&method=Move&version=1&cameraId=10&direction=left&speed=1&mo
veType=Start
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.9.2 Zoom method

Control the PTZ camera to zoom in or zoom out.

Request

Parameter	Value	Description	Availability
cameraId	<CAMERA_ID>	Unique camera ID.	1 and onward
control	in, out	Zoom control. in: Make camera to zoom in. out: Make camera to zoom out.	1 and onward
moveType	Start, Stop	*Optional*. Start continous move Stop continous move	3 and onward

Example: Control a camera to do zoom in.

```
GET /webapi/entry.cgi?
api=SYNO.SurveillanceStation.PTZ&method=Zoom&version=1&cameraId=10&control=in&moveType=Start
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.9.3 ListPreset method

List all presets of the PTZ camera.

Request

Parameter	Value	Description	Availability
cameraId	<CAMERA_ID>	Unique camera ID.	1 and onward
offset	<integer>	*Optional*.	1 and onward

		The offset to be shifted in the total result. If not specified, the offset will be 0.	
limit	<integer>	*Optional*. Number of presets to be returned. If not specified, return presets to the end of preset list.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api=SYNO.SurveillanceStation.PTZ&method=ListPreset&version=1&offset=10&limit=3&cameraId=10
```

Response

Key	Value	Description	Availability
total	<integer>	The number of total presets.	1 and onward
offset	<integer>	The shifted offset in the total result.	1 and onward
presets	Array of <Preset Object>	The preset list of the target camera.	1 and onward

<Preset Object> definition:

Key	Value	Description	Availability
id	<PRESET_ID>	Unique preset ID.	1 and onward
name	<string>	Preset name.	1 and onward

Example:

```
{
        “total”: 38,
        “offset”: 10,
        “presets”: [{
                        "id": 100,
                        "name": “My Preset 1”
                }, {
                        "id": 101,
                        "name": “My Preset 2”
                }, {
                        "id": 102,
                        "name": “My Preset 3”
        }]
}
```

2.3.9.4 GoPreset method

Move the camera lens to a pre-defined preset position.

Request

Parameter	Value	Description	Availability
cameraId	<CAMERA_ID>	Unique camera ID.	1 and onward
presetId	<PRESET_ID>	Unique preset ID.	1 ~ 3

position	<PRESET_POS_INDEX>	Unique preset position index.	4 and onward
speed	<PRESET_SPEED>	Go preset speed.	4 and onward
type	<PRESET_TYPE>	Preset type. 0 for normal preset, and 1 for home preset.	4 and onward
isPatrol	<boolean>	Whether the command is to trigger preset in patrol or not	4 and onward

Example 1:

```
GET /webapi/entry.cgi?
api=SYNO.SurveillanceStation.PTZ&method=GoPreset&version=1&cameraId=10&presetId=10
```

Example 2:

```
GET /webapi/entry.cgi?
cameraId=5&position=1&speed=3&type=0&isPatrol=true&api=SYNO.SurveillanceStation.PTZ&method=Go
Preset&version=4
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.9.5 ListPatrol method

Enumerate the patrol list of a PTZ camera.

Request

Parameter	Value	Description	Availability
cameraId	<CAMERA_ID>	Unique camera ID.	1 and onward
offset	<integer>	*Optional*. The offset to be shifted in the total result. If not specified, the offset will be 0.	1 and onward
limit	<integer>	*Optional*. Number of patrols to be returned. If not specified, list patrols to the end of patrol list.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api=SYNO.SurveillanceStation.PTZ&method=ListPatrol&version=1&offset=10&limit=2&cameraId=10
```

Response

Key	Value	Description	Availability
total	<integer>	The number of total patrols.	1 and onward
offset	<integer>	The shifted offset in the total result.	1 and onward
patrols	Array of <Patrol Object>	The patrol list of the target camera.	1 and onward

<Patrol Object> definition:

Key	Value	Description	Availability
id	<PATROL_ID>	Unique patrol ID.	1 and onward
name	<string>	Patrol name.	1 and onward
stayTime	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60	The stay time of one preset position (seconds).	1 and onward
sequence	Array of <PRESET_ID>	The preset execution sequence list.	1 and onward

Example:

```
{
        "total": 38,
        "offset": 10,
        “patrols”: [
                {
                        "id": 10,
                        "name": “My Patrol 1”,
                        "stayTime": 5,
                        "sequence": [100, 101, 102]
                },
                {
                        "id": 11,
                        "name": “My Patrol 2”,
                        "stayTime": 60,
                        "sequence": [103, 104]
                }
        ]
}
```

2.3.9.6 RunPatrol method

Force the camera to execute the specific patrol.

Request

Parameter	Value	Description	Availability
cameraId	<CAMERA_ID>	Unique camera ID.	2 and onward
patrolId	<PATROL_ID>	Unique patrol ID.	2 and onward

Example:

```
GET /webapi/entry.cgi?
api=SYNO.SurveillanceStation.PTZ&method=RunPatrol&version=2&cameraId=10&patrolId=11
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.9.7 Focus method

Control the camera to focus in or focus out.

Request

Parameter	Value	Description	Availability
cameraId	<CAMERA_ID>	Unique camera ID.	3 and onward
control	In, out	Focus control. in: Make camera to focus in. out: Make camera to focus out.	3 and onward
moveType	Start, Stop	*Optional*. Start continous move Stop continous move	3 and onward

Example: Control a camera to do focus out.

```
GET /webapi/entry.cgi?
api=SYNO.SurveillanceStation.PTZ&method=Focus&version=3&cameraId=10&control=out&moveType=Sta
rt
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.9.8 Iris method

Control the camera to iris in or iris out.

Request

Parameter	Value	Description	Availability
cameraId	<CAMERA_ID>	Unique camera ID.	3 and onward
control	in, out	Iris control. in: Make camera to iris in. out: Make camera to iris out.	3 and onward
moveType	Start, Stop	*Optional*. Start continous move Stop continous move	3 and onward

Example:

```
GET /webapi/entry.cgi?
api=SYNO.SurveillanceStation.PTZ&method=Iris&version=3&cameraId=10&control=in&moveType=Start
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.9.9 AutoFocus method

Let camera adjust its focus automatically.

Request

Parameter	Value	Description	Availability
cameraId	<CAMERA_ID>	Unique camera ID.	3 and onward

Example:

```
GET /webapi/entry.cgi?api=SYNO.SurveillanceStation.PTZ&method=AutoFocus&version=3&cameraId=10
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.9.10 AbsPtz method

Move the camera lens to an abosule position on screen.

Request

Parameter	Value	Description	Availability
cameraId	<CAMERA_ID>	Unique camera ID.	3 and onward
posX	<integer>	[0 to 640] Absolutely position in horizontal-axis on screen. > 320: move right < 320: move left	3 and onward
posY	<integer>	[0 to 480] Absolutely position in vertical-axis on screen. >240: move up <240: 240 move down	3 and onward

Example:

```
GET /webapi/entry.cgi?
api=SYNO.SurveillanceStation.PTZ&method=AbsPtz&version=3&cameraId=10&poxX=240&posY=400
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.9.11 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.
402	Camera disabled.

2.3.10 SYNO.SurveillanceStation.ExternalRecording

This API provides methods to start or stop external recording of a camera.

API Name	Version	Availability
SYNO.SurveillanceStation.ExternalRecording	1	Surveillance Station 6.0-2337
	2	Surveillance Station 6.1

Method Name	Section	Availability
Record	2.3.10.1	1 and onward

2.3.10.1 Record method

Start or stop external recording of a camera.

Request

Parameter	Value	Description	Availability
cameraId	<CAMERA_ID>	Unique camera ID.	1 and onward
action	start, stop	Start or stop external recording.	1 and onward

Example:

Start external recording of target camera.

```
GET /webapi/entry.cgi?
api=SYNO.SurveillanceStation.ExternalRecording&method=Record&version=1&cameraId=10&action=start
```

Stop external recording of target camera.

```
GET /webapi/entry.cgi?
api=SYNO.SurveillanceStation.ExternalRecording&method=Record&version=1&cameraId=10&action=stop
```

Response

Key	Value	Description	Availability
success	<boolean>	Whether starting/stopping recording is successful or not.	2 and onward

2.3.10.2 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.
402	Camera disabled.

2.3.11 SYNO.SurveillanceStation.Event

This API provides method to query event information.

API Name	Version	Availability
SYNO.SurveillanceStation.Event	1	Surveillance Station 6.0-2337
	3	Surveillance Station 6.3
	4	Surveillance Station 7.0

Method Name	Section	Availability
List	2.3.11.1	4 and onward
DeleteMulti	2.3.11.2	3 and onward
DeleteFilter	2.3.11.3	3 and onward
DeleteAll	2.3.11.4	3 and onward
ApplyAdvanced	2.3.11.5	4 and onward
CountByCategory	2.3.11.6	4 and onward
Keepalive	2.3.11.7	4 and onward
Trunc	2.3.11.8	4 and onward
LoadAdvanced	2.3.11.9	4 and onward
LockFilter	2.3.11.10	4 and onward
UnLock	2.3.11.11	4 and onward
UnLockFilter	2.3.11.12	4 and onward
Lock	2.3.11.13	4 and onward
Download	2.3.11.14	4 and onward

2.3.11.1 List method

Query event list by specific filter conditions.

Request

Parameter	Value	Description	Availability
offset	<integer>	*Optional*. The offset to be shifted in the total result. If not specified, the offset will be 0.	4 and onward
limit	<integer>	*Optional*. Number of events to be returned. If not specified, return events to the end of event list.	4 and onward
orderMethod	1, 2	*Optional*. The returned events are sorted by Desc or Asc. • 1: DESC • 2: ASC If not specified, the default value is 1.	4 and onward
reason	<string>	*Optional*. The list of recording mode to be queried concatenated by ",". • 0: None	4 and onward

		• 1: Continuous Recording • 2: Motion Detection Recording • 3: Alarm Recording • 4: Custom Recording • 5: Manual Recording • 6: External Recording • 7: Analytics Recording • 8: Edge Recording • 9: Action Rule Recording	
cameraIds	<string>	*Optional*. The list of <Camera ID> to be queried concatenated by ",". If not specified, this parameter will be ignored and get all related events.	4 and onward
fromTime	<integer>	*Optional*. Query start time. If not specified, the default value is 0.	4 and onward
toTime	<integer>	*Optional*. Query stop time. If not specified, the default value is 0.	4 and onward
locked	<integer>	Query locked.	4 and onward
evtSrcType	0, 1, 2, 3	*Optional*. The filtered source. • 0: None • 1: Local • 2: Recording Server • 3: Mount If not specified, the default value is 0.	4 and onward
evtSrcId	<integer>	*CONDITIONAL "depend": Param("evtSrcType").valid()* The specific slave ds or mount id. If not specified, the default value is -1.	4 and onward
blIncludeSnapshot	<boolean>	Include snapshot or not. If not specified, the default value is false.	4 and onward
includeAllCam	<boolean>	Include all camera or not. If not specified, the default value is false.	4 and onward
from_end	<integer>	Time from end. If not specified, the default value is 0.	4 and onward
from_start	<integer>	Time from start. If not specified, the default value is 0.	4 and onward

Example:

```
GET /webapi/entry.cgi?
locked=0&version="4"&blIncludeSnapshot=true&cameraIds=""&evtSrcType=2&from_start=0&reason=""&a
pi="SYNO.SurveillanceStation.Event"&evtSrcId=-
1&toTime=0&offset=0&limit=80&fromTime=0&method="List"&from_end=0&includeAllCam=true
```

Response

Key	Value	Description	Availability
total	<integer>	The number of total events.	4 and onward
offset	<integer>	The shifted offset in the total result.	4 and onward
events	Array of <events>	List of the queried events.	4 and onward
offset	<integer>	Offset	4 and onward
recCntData	<string>	Recording count data	4 and onward
timestamp	<string>	Time stamp	4 and onward
total	<integer>	Total number	4 and onward

<events> definition:

Key	Value	Description	Availability
archived	<boolean>	point out that this is archived or not.	4 and onward

Example:

```
{
    "camIdList": "",
    "recCntData": "null",
    "auInfo": "null",
    "timestamp": "1414740013",
    "offset": 0,
    "total": 3,
    "events": [
        {
            "volume": 50,
            "update_time": 1414680567,
            "recordId": "0_46",
            "audio_format": "",
            "idOnRecServer": 0,
            "mute": false,
            "deleted": false,
            "fisheye_origin_view": false,
            "stopTime": 1414680564,
            "videoCodec": "MJPEG",
            "fisheye_type": 0,
            "archived_folder": "TVIP21552",
            "imgWidth": 640,
            "video_type": 1,
            "startTime": 1414680551,
            "path": "20141030PM/TVIP2155220141030-224911-1414680551.avi",
            "eventSize": 0.9930419921875,
            "mountSrcDsId": 0,
            "dsId": 0,
            "id": 46,
            "frameCount": 77,
            "eventId": 46,
            "recording": false,
            "archived": false,
            "imageEnhancement": {
                "saturation": 0,
                "sharpness": 0,
                "contrast": 0,
                "brightness": 0
            },
            "name": "20141030PM/TVIP2155220141030-224911-1414680551.avi",
            "camIdOnRecServer": 0,
            "camera_name": "TVIP21552",
            "reason": 2,
            "cameraId": 13,
            "mountId": 0,
            "event_size_bytes": 1041280,
            "mount_type": 0,
            "markAsDel": false,
            "mode": 1,
            "for_rotation_only": false,
            "imgHeight": 480,
            "closing": false,
            "resoW": 640,
            "is_complete": true,
            "resoH": 480,
            "snapshot_medium":
"/9j/4AAQSkZJRgABAQAAAQABAAD/2wBDAAYEBQYFBAYGBQYHBwYIChAKCgkJChQODwwQFxQYGBcUFhYa
HSUfGhsjHBYWICwgIyYnKSopGR8tMC0oMCUoKSj/2wBDAQcHBwoIChMKChMoGhYaKCgoKCgoKCgoKCgoKC
goKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCj/wAARCABaAHgDASIAAhEBAxEB/8QAHwAAA
QUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUE
GE1FhByJxFDKBkaEII0KxwRVS0fAkM2JyggkKFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZ
WZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ
2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgE
CBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJ
ygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkp
aanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEA
PwD51paSlpgFFFFAAKWiimAUUUlMBaKTNLQAUUUUWAKKKKLAGKKKKLAJRRRipAKWkpaYCUtFFMBKWjrS1
SQCUUUtMAoooFMAooosAUUUUDG0UlLWIhaKKKYgooopoYDpS0lLVoAooopgAooopgFLSUtABRS9qKBkVF
FFYCF70tJS0wEpaKSmmIdRTaUVaYxaKKKYAKKBS0wEpRSUooGOFFJRQMhpaSiuckdQKTNGadwHUUmaMinc
ApQaSiqTAWlpM0ZppgLQKTNFO4C0tJRmncYoNFJmii4EdFFFYCCiiigAooooAKKKKAFzS02igB1FJS0wClpKDTA
Wig0U7gf/9k="
        }
    ]
}
```

2.3.11.2 DeleteMulti method

Delete multi-events with selection.

Request

Parameter	Value	Description	Availability
idList	Array of <idList>	List of the eventId and it's ownerDsId to delete.	3 and onward

<idList> definition:

Parameter	Value	Description	Availability
id	<string>	Unique camera ID with Unique event ID. "CAMERA_ID : EVENT_ID"	3 and onward
dsId	<integer>	Event's owner dsId	3 and onward

Example:

```
GET /webapi/entry.cgi?api="SYNO.SurveillanceStation.Event"&idList=[{"dsId": 0, "id":
"0:4295"}]&version="4"&method="DeleteMulti"
```

Response

Key	Value	Description	Availability
blLocked	<boolean>	If any event is locked.	3
success	<boolean>	If the action of delete succuess.	3 and onward

Example:

```
{
        "success": false
}
```

2.3.11.3 DeleteFilter method

Delete events by specific filter conditions.

Request

Parameter	Value	Description	Availability
reason	<string>	*Optional*. The list of recording mode to be queried concatenated by “,”. • 0: None • 1: Continuous Recording • 2: Motion Detection Recording • 3: Alarm Recording • 4 Custom Recording • 5: Manual Recording • 6: External Recording • 7: Analytics Recording • 8: Edge Recording • 9: Action Rule Recording	3 and onward
cameraIds	<string>	*Optional*. The list of <Camera ID> to be queried concatenated by “,”.	3 and onward

		If not specified, this parameter will be ignored and get all related events.	
fromTime	<timestamp>	*Optional*. Query start time. If not specified, this parameter will be ignored and get all related events.	3 and onward
toTime	<timestamp>	*Optional*. Query stop time. If not specified, this parameter will be ignored and get all related events.	3 and onward
locked	<integer>	Query locked.	4 and onward
evtSrcType	0, 1, 2, 3	*Optional*. The filtered source. • 0: None • 1: Local • 2: Recording Server • 3: Mount If not specified, the default value is 0.	4 and onward
evtSrcId	<integer>	*CONDITIONAL "depend": Param("evtSrcType").valid()* The specific slave ds or mount id. If not specified, the default value is -1.	4 and onward
blIncludeSnapshot	<boolean>	Include snapshot or not. If not specified, the default value is false.	4 and onward
includeAllCam	<boolean>	Include all camera or not. If not specified, the default value is false.	4 and onward
from_end	<integer>	Time from end. If not specified, the default value is 0.	4 and onward
from_start	<integer>	Time from start. If not specified, the default value is 0.	4 and onward

Example:

```
GET /webapi/entry.cgi?
locked=0&version="3"&blIncludeSnapshot=true&cameraIds=""&evtSrcType=2&reason=""&api="SYNO
.SurveillanceStation.Event"&evtSrcId=-
1&toTime=0&from_start=1423497600&fromTime=0&method="DeleteFilter"&from_end=1423584000&inc
ludeAllCam=true
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.11.4 DeleteAll method

Delete all events that the user has authorized.

Request

No parameter is required.

Example:

```
GET /webapi/entry.cgi?api="SYNO.SurveillanceStation.Event"&version="4"&method="DeleteAll"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.11.5 ApplyAdvanced method

Apply the setting in advance tab.

Request

Parameter	Value	Description	Availability
rotateUnrecogCam	<boolean>	*Optional*. Rotate unrecognized camera nor not. If not specified, the default value will be false.	4 and onward

Example:

```
GET /webapi/entry.cgi?
rotateUnrecogCam=true&api="SYNO.SurveillanceStation.Event"&version="4"&method="ApplyAdvanced"
```

Response

Key	Value	Description	Availability
rotateUnrecogCam	<boolean>	*Optional*. Rotate unrecognized camera nor not. If not specified, the default value will be false.	4 and onward

Example:

```
{
   "rotateUnrecogCam": true
}
```

2.3.11.6 CountByCategory method

Get the count number of Event in category.

Request

Parameter	Value	Description	Availability
offset	<integer>	*Optional*. Offset of timezone. If not specified, the offset will be 0.	4 and onward

limit	<integer>	*Optional*. Number of events to be returned. If not specified, return events to the end of event list.	4 and onward
reason	<string>	*Optional*. The list of recording mode to be queried concatenated by ",". • 0: None • 1: Continuous Recording • 2: Motion Detection Recording • 3: Alarm Recording • 4: Custom Recording • 5: Manual Recording • 6: External Recording • 7: Analytics Recording • 8: Edge Recording • 9: Action Rule Recording	4 and onward
cameraIds	<string>	*Optional*. The list of <Camera ID> to be queried concatenated by “,”. If not specified, this parameter will be ignored and get all related events.	4 and onward
fromTime	<integer>	*Optional*. Query start time. If not specified, the default value is 0.	4 and onward
toTime	<integer>	*Optional*. Query stop time. If not specified, the default value is 0.	4 and onward
locked	<integer>	Query locked.	4 and onward
evtSrcType	0, 1, 2, 3	*Optional*. The filtered source. • 0: None • 1: Local • 2: Recording Server • 3: Mount If not specified, the default value is 0.	4 and onward
evtSrcId	<integer>	*CONDITIONAL "depend": Param("evtSrcType").valid()* The specific slave ds or mount id. If not specified, the default value is -1.	4 and onward
blIncludeSnapshot	<boolean>	Include snapshot or not. If not specified, the default value is false.	4 and onward
includeAllCam	<boolean>	Include all camera or not. If not specified, the default value is false.	4 and onward

Example:

```
GET /webapi/entry.cgi?
locked=0&version="4"&blIncludeSnapshot=true&cameraIds=""&evtSrcType=2&reason=""&api="SYNO.Surv
```

```
eillanceStation.Event"&evtSrcId=-
1&toTime=0&limit=0&fromTime=0&method="CountByCategory"&timezoneOffset=480&includeAllCam=tru
e
```

Response

Key	Value	Description	Availability
date	Array of <day_cnt>	Number of Event of each day. -1: Total number count. yyyy/mm/dd: Number count of yyyy/mm/dd. (Ex:1990/05/09)	4 and onward
evt_cam	Array of <evt_cam_ds_info>	Information of event camera.	4 and onward
total	<integer>	Total number of Event.	4 and onward

<day_cnt> definition:

Key	Value	Description	Availability
-1	<integer>	Total number count.	4 and onward
yyyy/mm/dd	<time_cnt>	Number count of log of yyyy/mm/dd. (Ex:1990/05/09)	4 and onward

<time_cnt> definition:

Key	Value	Description	Availability
-1	<integer>	Total number count.	4 and onward
am	<integer>	Number count of log in am.	4 and onward
pm	<integer>	Number count of log in pm.	4 and onward

<evt_cam_ds_info> definition:

Key	Value	Description	Availability
-1	<integer>	Total number count.	4 and onward
X	<evt_cam_info>	X is the local DS id.	4 and onward

<evt_cam_info> definition:

Key	Value	Description	Availability
-1	<integer>	Total number count.	4 and onward
CAMERA_NAME	<integer>	CAMERA_NAME is the name of camera. (Ex: "39-FD8171-001":98)	4 and onward

Example:

```
{
   date":{
      "-1":243,
      "2015/03/11":{
         "-1":156,
         "am":0,
         "pm":156
      },
        "2015/03/12":{
            "-1":87,
            "am":69,
            "pm":18
        }
    },
    "evt_cam":{
        "-1":243,
        "0":{
            "-1":243,
            "17-IP7135":48,
            "18-E33":195
        }
    },
    "total":243
}
```

2.3.11.7 Keepalive method

Keep event play alive

Request

No parameter is required.

Example:

```
GET /webapi/entry.cgi?api="SYNO.SurveillanceStation.Event"&version="4"&method="Keepalive"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.11.8 Trunc method

A method to stop a recording event.

Request

Parameter	Value	Description	Availability
idList	Array of <idList>	*Optional*. Event id lists.	4 and onward

<idList> definition:

Parameter	Value	Description	Availability
id	<string>	Unique camera ID with Unique event ID. "CAMERA_ID : EVENT_ID"	3 and onward

dsId	<integer>	Event's owner dsId	3 and onward

Example:

```
GET /webapi/entry.cgi?api="SYNO.SurveillanceStation.Event"&idList=[{"dsId": 0, "id":
"0:4295"}]&version="4"&method="Trunc"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.11.9 LoadAdvanced method

Load the setting in advance tab.

Request

No parameter is required.

Example:

```
GET /webapi/entry.cgi?api="SYNO.SurveillanceStation.Event"&version="4"&method="LoadAdvanced"
```

Response

Key	Value	Description	Availability
rotateUnrecogCam	<boolean>	Rotate unrecognized camera nor not.	4 and onward

Example:

```
{
  "rotateUnrecogCam": true
}
```

2.3.11.10 LockFilter method

Lock the selected events in filter.

Request

Parameter	Value	Description	Availability
reason	<string>	*Optional*. The list of recording mode to be queried concatenated by ",". • 0: None • 1: Continuous Recording • 2: Motion Detection Recording	4 and onward

		• 3: Alarm Recording • 4: Custom Recording • 5: Manual Recording • 6: External Recording • 7: Analytics Recording • 8: Edge Recording • 9: Action Rule Recording	
cameraIds	<string>	*Optional*. The list of <Camera ID> to be queried concatenated by ",". If not specified, this parameter will be ignored and get all related events.	4 and onward
fromTime	<integer>	*Optional*. Query start time. If not specified, the default value is 0.	4 and onward
toTime	<integer>	*Optional*. Query stop time. If not specified, the default value is 0.	4 and onward
locked	<integer>	Query locked.	4 and onward
evtSrcType	0, 1, 2, 3	*Optional*. The filtered source. • 0: None • 1: Local • 2: Recording Server • 3: Mount If not specified, the default value is 0.	4 and onward
evtSrcId	<integer>	*CONDITIONAL "depend": Param("evtSrcType").valid()* The specific slave ds or mount id. If not specified, the default value is -1.	4 and onward

Example:

```
GET /webapi/entry.cgi?
reason="1,3,8"&api="SYNO.SurveillanceStation.Event"&locked=0&version="4"&toTime=0&cameraIds="1,2,
3"&evtSrcType=2&fromTime=0&method="LockFilter"&evtSrcId=3
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.11.11 UnLock method

Unlock the selected events.

Request

Parameter	Value	Description	Availability

idList	Array of <idList>	*Optional*. List of the eventId and it's ownerDsId to be locked.	4 and onward

<idList> definition:

Key	Value	Description	Availability
archived	<boolean>	point out that this is archived or not.	4 and onward

Example:

```
GET /webapi/entry.cgi?api="SYNO.SurveillanceStation.Event"&idList=[{"dsId": 0, "id":
"0:5997"}]&version="4"&method="UnLock"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.11.12 UnLockFilter method

Unlock the selected events in filter.

Request

Parameter	Value	Description	Availability
reason	<string>	*Optional*. The list of recording mode to be queried concatenated by ",". • 0: None • 1: Continuous Recording • 2: Motion Detection Recording • 3: Alarm Recording • 4: Custom Recording • 5: Manual Recording • 6: External Recording • 7: Analytics Recording • 8: Edge Recording • 9: Action Rule Recording	4 and onward
cameraIds	<string>	*Optional*. The list of <Camera ID> to be queried concatenated by “,”. If not specified, this parameter will be ignored and get all related events.	4 and onward
fromTime	<integer>	*Optional*. Query start time. If not specified, the default value is 0.	4 and onward
toTime	<integer>	*Optional*. Query stop time.	4 and onward

		If not specified, the default value is 0.	
locked	<integer>	Query locked.	4 and onward
evtSrcType	0, 1, 2, 3	*Optional*. The filtered source. • 0: None • 1: Local • 2: Recording Server • 3: Mount If not specified, the default value is 0.	4 and onward
evtSrcId	<integer>	*CONDITIONAL "depend": Param("evtSrcType").valid()* The specific slave ds or mount id. If not specified, the default value is -1.	4 and onward

Example:

```
GET /webapi/entry.cgi?
reason="1,3,8"&api="SYNO.SurveillanceStation.Event"&locked=0&version="4"&toTime=0&cameraIds="1,2,
3"&evtSrcType=2&fromTime=0&method="UnLockFilter"&evtSrcId=3
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.11.13 Lock method

Lock the selected events

Request

Parameter	Value	Description	Availability
idList	Array of <idList>	*Optional*. List of the eventId and it's ownerDsId to be locked.	4 and onward

<idList> definition:

Parameter	Value	Description	Availability
archived	<boolean>	point out that this is archived or not.	4 and onward

Example:

```
GET /webapi/entry.cgi?api="SYNO.SurveillanceStation.Event"&idList=[{"dsId": 0, "id":
"0:5997"}]&version="4"&method="Lock"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.11.14 Download method

Download event.

Request

Parameter	Value	Description	Availability
eventId	<integer>	*Optional*. Id of event. If not specified, the default value will be 0.	4 and onward
mountId	<integer>	*Optional*. Mount id of event. If not specified, the default value will be 0.	4 and onward
analyevent	<boolean>	*Optional*. Analyze event or not. If not specified, the default value will be false.	4 and onward

Example:

```
GET /webapi/entry.cgi?
eventId=5753&version="4"&mountId=0&api="SYNO.SurveillanceStation.Event"&analyevent=false&method
="Download"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.11.15 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.
405	CMS server connection failed.
414	Some events not exist.
439	Too many items selected.

2.3.12 SYNO.SurveillanceStation.Event.Export

This API provides several methods to access the information of exporting task of Surveillance Station. (Ex: Get information/count number of events in task, Check the availability of task name and exporting task, Save/Load event task)

API Name	Version	Availability
SYNO.SurveillanceStationEvent.Export	1	Surveillance Station 7.0

Method Name	Section	Availability
Load	2.3.12.1	1 and onward
CheckName	2.3.12.2	1 and onward
CamEnum	2.3.12.3	1 and onward
CheckAvailableExport	2.3.12.4	1 and onward
Save	2.3.12.5	1 and onward
GetEvtExpInfo	2.3.12.6	1 and onward

2.3.12.1 Load method

Handle load event export.

Request

Parameter	Value	Description	Availability
start	<integer>	*Optional*. The offset to be shifted in the total result. If not specified, the default value will be 0.	1 and onward
limit	<integer>	*Optional*. Number of Visual Stations to be returned. If not specified, the default value will be 0.	1 and onward

Example:

```
GET /webapi/entry.cgi?
start=0&api="SYNO.SurveillanceStation.Event.Export"&limit=100&version="1"&method="Load"
```

Response

Key	Value	Description	Availability
evtexptotal	<integer>	Total number of export task.	1 and onward
exporttask	Array of <exporttask_info>	Information of export task.	1 and onward

<exporttask_info> definition:

Key	Value	Description	Availability
id	<integer>	Id of export task.	1 and onward
name	<string>	Name of export task.	1 and onward

srcDsId	<integer>	Id of source DS.	1 and onward
dstDsId	<integer>	Id of destination DS.	1 and onward
dstdir	<string>	Directory of destination.	1 and onward
start_time	<integer>	Start time of event.	1 and onward
stop_time	<integer>	Stop time of event.	1 and onward
status	<integer>	Status of export task.	1 and onward
total_count	<integer>	Total count number of events.	1 and onward

Example:

```
{
    "exporttask": [
        {
            "status": 0,
            "srcDsId": 0,
            "exported_count": 1,
            "start_time": 1425398400,
            "name": "asdf",
            "dstdir": "test",
            "total_count": 30,
            "dstDsId": 0,
            "id": 5,
            "stop_time": 1425484800
        }
    ],
    "evtexptotal": 1
}
```

2.3.12.2 CheckName method

Check the name of export event.

Request

Parameter	Value	Description	Availability
dsId	<integer>	*Optional*. DS Id. If not specified, the default value will be 0.	1 and onward
name	<string>	*Optional*. Name of the export event.	1 and onward
share	<string>	*Optional*. Export destination.	1 and onward

Example:

```
GET /webapi/entry.cgi?
name="asdf"&share="test"&api="SYNO.SurveillanceStation.Event.Export"&version="1"&dsId=0&method="
CheckName"
```

Response

Key	Value	Description	Availability
conflict	<integer>	The current status of the VS. • 0: None • 1: Overwrite • 2: Cannot overrite.	1 and onward

Example:

```
{
    "conflict": 0
}
```

2.3.12.3 CamEnum method

Get list information of all cameras.

Request

Parameter	Value	Description	Availability
dsId	<integer>	*Optional*. DS Id. If not specified, the default value will be -1.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Event.Export"&dsId=0&version="1"&method="CamEnum"
```

Response

Key	Value	Description	Availability
camlist	Array of <camlist_info>	Camera list.	1 and onward

<camlist_info>definition:

Key	Value	Description	Availability
checked	<boolean>	Is the camera checked or not.	1 and onward
id	<integer>	Id of camera.	1 and onward
idOnRecServ	<integer>	Id of camera on recording server.	1 and onward
enable	<boolean>	Is the mount event enabled or not.	1 and onward
name	<string>	Name of camera.	1 and onward
ipaddr	<string>	IP address of camera.	1 and onward
status	<integer>	Status of mount event. • 0: Normal • 1: Disable • 2: Unreachable	1 and onward

		• 3: Server disconnected • 4: Configuring • 5: Deleting	
deleted	<boolean>	Is the camera being deleted.	1 and onward

Example:

```
{
    "camlist": [
        {
            "status": 3,
            "enable": true,
            "checked": false,
            "name": "M1031-W",
            "deleted": false,
            "idOnRecServ": 0,
            "ipaddr": "10.13.22.115",
            "id": 32
        }
    ]
}
```

2.3.12.4 CheckAvailableExport method

Check if the destination folder is available for export or not.

Request

Parameter	Value	Description	Availability
freeSize	<integer>	*Optional*. Free size (MB). If not specified, the default value will be 0.	1 and onward
startTime	<integer>	*Optional*. Start time of event. If not specified, the default value will be 0.	1 and onward
stopTime	<integer>	*Optional*. Stop time of event. If not specified, the default value will be 0.	1 and onward
camIdList	<string>	*Optional*. List of camera Id.	1 and onward

Example:

```
GET /webapi/entry.cgi?
camIdList="32,33,34"&version="1"&freeSize=881508&method="CheckAvailableExport"&api="SYNO.Surveil
```

```
lanceStation.Event.Export"&startTime=1425398400&stopTime=1425484800
```

Response

Key	Value	Description	Availability
result	<integer>	The feasibility of exporting target events. • 0: Normal • 1: Error • 2: No event • 3: Oversize	1 and onward

Example:

```
{
  "result": 0
}
```

2.3.12.5 Save method

Handle save event export.

Request

Parameter	Value	Description	Availability
name	<string>	Name of export task.	1 and onward
srcDsId	<integer>	*Optional*. Id of source DS. If not specified, the default value will be 0.	1 and onward
dstDsId	<integer>	*Optional*. Id of destination DS. If not specified, the default value will be 0.	1 and onward
dstdir	<string>	Directory of destination.	1 and onward
freesize	<integer>	*Optional*. Free size (MB). If not specified, the default value will be 0.	1 and onward
start_time	<integer>	*Optional*. Start time of event. If not specified, the default value will be 0.	1 and onward
stop_time	<integer>	*Optional*. Stop time of event. If not specified, the default value will be 0.	1 and onward
isoverwrite	<integer>	Remove the conflict dir with user's confirm. • 0: false • 1: true	1 and onward
camlistid	<string>	List of camera Id.	1 and onward

Example:

```
GET /webapi/entry.cgi?
srcDsId=0&isoverwrite=0&name="asdf"&dstdir="test"&start_time=1425398400&freesize=881508&metho
d="Save"&api="SYNO.SurveillanceStation.Event.Export"&stop_time=1425484800&version="1"&camlistid="
32,33,34"&dstDsId=0
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.12.6 GetEvtExpInfo method

Get event export information from recording server.

Request

Parameter	Value	Description	Availability
startTime	<integer>	*Optional*. Start time of event. If not specified, the default value will be 0.	1 and onward
stopTime	<integer>	*Optional*. Stop time of event. If not specified, the default value will be 0.	1 and onward
camIdList	<string>	List of camera Id.	1 and onward

Example:

```
GET /webapi/entry.cgi?
camIdList="32,33,34"&version="1"&method="GetEvtExpInfo"&api="SYNO.SurveillanceStation.Event.Export
"&startTime=1425398400&stopTime=1425484800
```

Response

Key	Value	Description	Availability
camEvtInfoList	Array of <camEvtInfoList_info>	Information list of target events.	1 and onward
eventIdList	<string>	List of event Id.	
fisheyeIdList	<string>	List of fisheye Id.	
totalEvtCnt	<integer>	Total count number of events.	
totalEvtSize	<integer>	Total size of events. (MB)	

<camEvtInfoList_info>definition:

Key	Value	Description	Availability
camEvtList	Array of <camEvtList_info>	Information of target camera event.	1 and onward
camId	<integer>	Id of camera.	1 and onward
camStoragePath	<string>	Storage path of the camera.	1 and onward

<camEvtList_info>definition:

Key	Value	Description	Availability
path	<string>	Detail path of target camera event.	1 and onward

Example:

```
{
   "eventIdList": "",
   "totalEvtCnt": 0,
   "fisheyeIdList": "",
   "totalEvtSize": 0,
   "camEvtInfoList": [
      {
         "camId": 32,
         "camEvtList": [],
         "camStoragePath": "/var/services/surveillance/M1031-W"
      }
   ]
}
```

2.3.12.7 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.
405	CMS server connection failed.
414	Some events not exist.
439	Too many items selected.

2.3.13 SYNO.SurveillanceStation.Event.Mount

This API provides a method to load information of event mount in Surveillance Station.

API Name	Version	Availability
SYNO.SurveillanceStation.Event.Mount	1	Surveillance Station 7.0

Method Name	Section	Availability
Load	2.3.13.1	1 and onward

2.3.13.1 Load method

Load the event mount.

Request

No parameter is required.

Example:

```
GET /webapi/entry.cgi?api="SYNO.SurveillanceStation.Event.Mount"&version="1"&method="Load"
```

Response

Key	Value	Description	Availability
eventmount	Array of <mount_element>	Mount event.	1 and onward
total	<integer>	Total number of mount event.	1 and onward

<mount_element> definition:

Key	Value	Description	Availability
camlist	Array of <cam_info>	Camera List.	1 and onward
dsId	<integer>	Id of DS.	1 and onward
enable	<boolean>	Is the mount event enabled or not.	1 and onward
expid	<string>	Export info.	1 and onward
id	<integer>	Id of mount event.	1 and onward
name	<string>	Name of mount event.	1 and onward
start_time	<integer>	Start time of mount event.	1 and onward
status	<integer>	Status of mount event. • 0: Normal • 1: Disable • 2: Unreachable • 3: Server disconnected • 4: Configuring • 5: Deleting	1 and onward
stop_time	<integer>	Stop time of mount event.	1 and onward

<cam_info> definition:

Key	Value	Description	Availability
analyticsDirection	<integer>	Analytics type of liveview. • 0: One way direction in analytics • 1: Two way direction in analytics	1 and onward
analyticsDwellTime	<integer>	Setting of dwelling time in liveview analytics.	1 and onward
analyticsObjSize	<integer>	Setting of object size in liveview analytics. • 0: One forth object size • 1: One ninth object size • 2: One sixteenth object size	1 and onward
analyticsRegion	<string>	Setting of analytics Region in liveview analytics. • 0: Unset • 1: Set	1 and onward
analyticsSens	<integer>	Analytics type of liveview. • 0: Low • 1: Medium • 2: High	1 and onward
analyticsType	<integer>	Analytics type of liveview. • 0: None • 1: Motion • 2: Missing object • 3: Foreign object • 4: Camera occlusion • 5: Focus lost • 6: Loitering • 7: Object counting • 8: Virtual fence • 9: Total	1 and onward
camMountType	<integer>	Type of mounted camera. • 0: ceiling • 1: wall • 2: floor • 3: CNT	1 and onward
feRegionList	Array of <feRegion_info>	List of fisheye region.	1 and onward
fisheyeType	<integer>	Type of fisheye. • 0: no fisheye • other than 0: one of vendor	1 and onward
id	<integer>	Camera Id.	1 and onward
name	<string>	Camera name.	1 and onward

<feRegion_info> definition:

Key	Value	Description	Availability
camId	<integer>	Camera Id.	1 and onward
id	<integer>	Id of fisheye region.	1 and onward
name	<string>	Name of fisheye region.	1 and onward
posX	<integer>	Position X of fisheye region.	1 and onward
posY	<integer>	Position Y of fisheye region.	1 and onward
type	<integer>	Type of fisheye region.	1 and onward

		• -1: FISHEYE_NOT_REGION • 0: FISHEYE_REGION • 1: FISHEYE_PANORAMA • 2: FISHEYE_DOUBLE_PANORAMA • 3: FISHEYE_TRIPLE_VIEW • 4: FISHEYE_QUAD_VIEW • 5: FISHEYE_SUB_REGION • 6: FISHEYE_SUB_PANORAMA	
zoom	<integer>	Zoom value.	1 and onward

Example:

```
{
    "total": 1,
    "eventmount": [
        {
            "status": 0,
            "enable": true,
            "start_time": 1424016000,
            "name": "12314144",
            "expid": "20150216095031-0011323CC391",
            "camlist": [
                {
                    "analyticsDirection": 0,
                    "analyticsType": 1,
                    "analyticsDwellTime": 5,
                    "analyticsRegion":
"0000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000001111111111111111111111111111111111100000111111111111
11111111111111111111111000001111111111111111111111111111111111100000111111111111111111
11111111111111111000001111111111111111111111111111111111100000111111111111111111111111
11111111111000001111111111111111111111111111111111100000111111111111111111111111111111
11111000001111111111111111111111111111111111100000111111111111111111111111111111111110
00001111111111111111111111111111111111100000111111111111111111111111111111111110000011
11111111111111111111111111111111100000111111111111111111111111111111111110000011111111
11111111111111111111111111100000111111111111111111111111111111111110000011111111111111
11111111111111111111100000111111111111111111111111111111111110000011111111111111111111
11111111111111100000111111111111111111111111111111111110000011111111111111111111111111
11111111100000111111111111111111111111111111111110000011111111111111111111111111111111
11100000111111111111111111111111111111111110000011111111111111111111111111111111111",
                    "camMountType": 0,
                    "id": 38,
                    "name": "FE8172-001",
                    "analyticsSens": 1,
                    "feRegionList": [
                        {
                            "camId": 38,
                            "name": "Default Region",
                            "zoom": 25,
                        "posX": 500,
                        "posY": 500,
                        "type": 0,
                        "id": 26
                    },
                    {
                        "camId": 38,
                        "name": "Default Panorama",
                        "zoom": 25,
                        "posX": 500,
                        "posY": 250,
                        "type": 1,
                        "id": 27
                    },
                    {
                        "camId": 38,
                        "name": "Default Double Panorama",
                        "zoom": 25,
                        "posX": 500,
                        "posY": 250,
                        "type": 2,
                        "id": 28
                    },
                    {
                        "camId": 38,
                        "name": "Default Triple View",
                        "zoom": 25,
                        "posX": 500,
                        "posY": 250,
                        "type": 3,
                        "id": 29
                    },
                    {
                        "camId": 38,
                        "name": "Default Quad View",
                        "zoom": 25,
                        "posX": 500,
                        "posY": 250,
                        "type": 4,
                        "id": 30
                    }
                ],
                "fisheyeType": 1,
                "analyticsObjSize": 2
            }
        ],
        "dsId": 0,
        "id": 4,
        "stop_time": 1424102400
    }
]
```

```
}
```

2.3.13.2 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.
405	CMS server connection failed.
414	Some events not exist.
439	Too many items selected.

2.3.14 SYNO.SurveillanceStation.Device

This API provides methods to get device information such as Visual Station and Slave DS.

API Name	Version	Availability
SYNO.SurveillanceStation.Device	1	Surveillance Station 6.0-2337
	2	Surveillance Station 6.3

Method Name	Section	Availability
ListVS	2.3.14.1	1 and onward
ListCMS	2.3.14.2	1 and onward
GetServiceSetting	2.3.14.3	1 and onward

2.3.14.1 ListVS method

List all installed Visual Stations.

Request

Parameter	Value	Description	Availability
offset	<integer>	*Optional*. The offset to be shifted in the total result. If not specified, the default value will be 0.	1 and onward
limit	<integer>	*Optional*. Number of Visual Stations to be returned. If not specified, list Visual Stations to the end of Visual Station list.	1 and onward

Example:

```
GET /webapi/SurveillanceStation/device.cgi?
api=SYNO.SurveillanceStation.Device&method=ListVS&version=1&offset=10&limit=1
```

Response

Key	Value	Description	Availability
total	<integer>	The total number of installed Visual Stations.	1 and onward
offset	<integer>	The shifted offset in the total result.	1 and onward
visualStations	Array of <Visual Station Object>	The list of all Visual Stations.	1 and onward

<Visual Station Object> definition:

Key	Value	Description	Availability
id	<VS_ID>	Unique Visual Station ID.	1 and onward
name	<string>	Visual Station name.	1 and onward
dhcp	<boolean>	If DHCP is set to get IP.	1 and onward
ip	<string>	IP address.	1 and onward
mac	<string>	MAC address.	1 and onward

platform	VS60, VS80, VS240HD	Platform model.	1 and onward
version	<string>	Firmware version in the below format: [major].[minor]-[build_number] Example: 1.3-0308	1 and onward
enable	<boolean>	Enable status.	1 and onward
lock	<boolean>	Lock status.	1 and onward
status	0, 1, 2, 3, 4, 5	The current status of the VS. • 0: Normal • 1: Configuring • 2: Disconnected • 3: Reset • 4: Occupied • 5: Disabled	1 and onward

Example:

```
{
        "total": 38,
        "offset": 10,
        "visualStations": [
                {
                        "id": 922,
                        "name": "VS80",
                        "dhcp": true,
                        "ip": "192.168.38.91",
                        "macAddr": "00:11:32:AA:BB:CC",
                        "platform": "VS80",
                        "version": "1.3-0303",
                        "enable": true,
                        "lock": false,
                        "status": 0
                }
        ]
}
```

2.3.14.2 ListCMS method

List all installed Slave DSs.

Request

Parameter	Value	Description	Availability
offset	<integer>	*Optional*. The offset to be shifted in the total result. If not specified, the default value will be 0.	1 and onward
limit	<integer>	*Optional*. Number of Slave DSs to be returned. If not specified, list Slave DSs to the end of Slave	1 and onward

		DS list.	

Example:

```
GET /webapi/device.cgi?
api=SYNO.SurveillanceStation.Device&method=ListCMS&version=1&offset=10&limit=2
```

Response

Key	Value	Description	Availability
total	<integer>	The total number of installed Slave DSs.	1 and onward
offset	<integer>	The shifted offset in the total result.	1 and onward
slaveDSs	Array of <DS Object>	The DS list.	1
recordingServers	Array of <DS Object>	The recording server list.	2 and onward
host	<DS object>	The host server	2 and onward

<DS Object> definition:

Key	Value	Description	Availability
id	<DS_ID>	Unique DS ID.	1 and onward
name	<string>	DS name.	1 and onward
ip	<string>	IP address or host name.	1 and onward
port	1 … 65535	HTTP port.	1 and onward
enable	<boolean>	Enable status.	1 and onward
status	0, 1, 2 3, 4	The current status of the VS. • 0: Normal • 1: Disabled • 2: Unauthorized • 3: Disconnected • 4: Error	1 and onward

Example:

```
{
        "total": 38,
        "offset": 10,
        "recordingServers": [
                {
                        "id": 1,
                        "name": "My DS 1",
                        "ip": "192.168.1.101",
                        "port": 5000,
                        "enable": true,
                        "status": 0
                },
                {
                        "id": 2,
                        "name": "My DS 2",
                        "ip": "192.168.1.102",
                        "port": 5000,
                    "enable": false,
                    "status": 1
            }
        ],
        "host": {
                    "id": 0,
                    "name": "Host DS",
                    "ip": "192.168.1.111",
                    "port": 5000,
                    "enable": true,
                    "status": 0
        }
}
```

2.3.14.3 GetServiceSetting method

Get the setting of Centralized Management and Visual Station service.

Request

No parameter is required.

Example:

```
GET /webapi/SurveillanceStation/device.cgi?
api=SYNO.SurveillanceStation.Device&method=GetServiceSetting&version=1
```

Response

Key	Value	Description	Availability
cmsEnabled	<boolean>	If Centralized Management is enabled.	1 and onward
cmsType	0, 1	*Optional*. Centralized Management type. It shows when cmsEnabled is true. • 0: Master • 1: Slave	1 and onward
vsEnabled	<boolean>	If Visual Station service is enabled.	1 and onward

Example:

```
{
        "cmsEnabled": true,
        "cmsType": 0,
        "vsEnabled": false
}
```

2.3.14.4 API Error Code

Code	Description
400	Execution failed.
410	Service is not enabled.

2.3.15 SYNO.SurveillanceStation.CMS

This API provides several methods to access ds in CMS. (Ex: Get information, Apply option, Lock, Modify share privilege, Check Samba Enabled/Enable samba, Redirect, Get snapshot)

API Name	Version	Availability
SYNO.SurveillanceStation.CMS	1	Surveillance Station 7.0

Method Name	Section	Availability
Redirect	2.3.15.1	1 and onward
ModifySharePriv	2.3.15.2	1 and onward
ApplyOption	2.3.15.3	1 and onward
GetInfo	2.3.15.4	1 and onward
DoSyncData	2.3.15.5	1 and onward
CheckSambaEnabled	2.3.15.6	1 and onward
BatCheckSambaService	2.3.15.7	1 and onward
GetMDSnapshot	2.3.15.8	1 and onward
GetCMSStatus	2.3.15.9	1 and onward
EnableSamba	2.3.15.10	1 and onward
NotifyCMSBreak	2.3.15.11	1 and onward
LockSelf	2.3.15.12	1 and onward

2.3.15.1 Redirect method

Redirect the webAPI to target DS.

Request

Parameter	Value	Description	Availability
dsId	<integer>	*Optional*. DS Id.	1 and onward
webAPI	Array of <webAPI_info>	*Optional*. Webapi.	1 and onward

Example:

```
GET /webapi/entry.cgi?webAPI={"api": "SYNO.SurveillanceStation.AddOns", "version": 1, "method":
"List"}&api="SYNO.SurveillanceStation.CMS"&dsId=3&version="1"&method="Redirect"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.15.2 ModifySharePriv method

Modify share privilege.

Request

Parameter	Value	Description	Availability
privSet	<integer>	*Optional*. Privilege setting. If not specified, the default value will be 0.	1 and onward
shareName	<string>	*Optional*. Name of share folder.	1 and onward

Example:

```
GET /webapi/entry.cgi?
shareName=""&privSet=0&api="SYNO.SurveillanceStation.CMS"&version="1"&method="ModifySharePriv"
```

Response

Key	Value	Description	Availability
privOrg	<integer>	Original privilege setting.	1 and onward

Example:

```
{
  "privOrg": 0
}
```

2.3.15.3 ApplyOption method

Apply the option setting.

Request

Parameter	Value	Description	Availability
central_auto_video_relay	<boolean>	*Optional*. Is auto video relay enabled or not. If not specified, the default value will be false.	1 and onward
central_enable	<boolean>	*Optional*. Is central enable or not. If not specified, the default value will be false.	1 and onward
central_mode	<string>	*Optional*. Central CMS mode. • 0: Disable • 1: Host server	1 and onward

		• 2: Rec server	
central_rec_mask_mode	<boolean>	*Optional*. Prevent other user to change the setting of recording server. If not specified, the default value will be false.	1 and onward
central_rec_sync_time	<boolean>	*Optional*. Is the time of recording server syncronized with host. If not specified, the default value will be false.	1 and onward
nvr_enable	<boolean>	*Optional*. Is NVR enabled. If not specified, the default value will be false.	1 and onward
nvr_lang	<string>	*Optional*. Language of NVR.	1 and onward

Example:

```
GET /webapi/entry.cgi?central_auto_video_relay=false¢ral_rec_sync_time=false
¢ral_mode="1"&api="SYNO.SurveillanceStation.CMS"&version="1"¢ral_rec_mask_mode=false&method="
ApplyOption"¢ral_enable=true
```

Response

Key	Value	Description	Availability
central_auto_video_relay	<boolean>	Is auto video relay enabled or not.	1 and onward
central_enable	<boolean>	Is central enable or not.	1 and onward
central_host_ip	<string>	IP of paired host.	1 and onward
central_locked	<boolean>	Is recServer locked or not.	1 and onward
central_mode	<string>	Central CMS mode. • 0: Disable • 1: Host server • 2: Rec server	1 and onward
central_paired_host_model	<string>	Model of paired host.	1 and onward
central_paired_host_name	<string>	Name of paired host.	1 and onward
central_rec_mask_mode	<boolean>	Prevent other user to change the setting of recording server.	1 and onward
central_rec_status	<integer>	Status of recServer.	1 and onward

		• 0: normal • 1: disable • 3: disconnect	
central_rec_sync_time	<boolean>	Is the time of recording server syncronized with host.	1 and onward
confirm_key	<string>	Confirm key.	1 and onward
enable_video_relay	<boolean>	Enable video relay or not.	1 and onward
key	<string>	Key.	1 and onward
nvr_enable	<boolean>	Is NVR enabled.	1 and onward
nvr_lang	<string>	Language of NVR.	1 and onward
vs_enable	<boolean>	Is VisualStation enabled.	1 and onward
success	<boolean>	Success or not.	1 and onward

Example:

```
{
    "central_paired_host_model": "",
    "central_rec_status": 1,
    "central_auto_video_relay": true,
    "enable_video_relay": false,
    "confirm_key": "********",
    "central_paired_host_name": "",
    "nvr_enable": true,
    "central_rec_sync_time": false,
    "success": true,
    "central_mode": "1",
    "central_locked": false,
    "key": "********",
    "vs_enable": true,
    "central_rec_mask_mode": false,
    "central_host_ip": "",
    "nvr_lang": "",
    "central_enable": true
}
```

2.3.15.4 GetInfo method

Get CMS related info.

Request

Parameter	Value	Description	Availability
isPolling	<boolean>	*Optional*.	1 and onward

		Prevent access DB while polling. If not specified, the default value will be false.	

Example:

```
GET /webapi/entry.cgi?
isPolling=false&api="SYNO.SurveillanceStation.CMS"&version="1"&method="GetInfo"
```

Response

Key	Value	Description	Availability
central_auto_video_relay	<boolean>	Is auto video relay enabled or not.	1 and onward
central_enable	<boolean>	Is central enable or not.	1 and onward
central_host_ip	<string>	IP of paired host.	1 and onward
central_locked	<boolean>	Is recServer locked or not.	1 and onward
central_mode	<string>	Central CMS mode. • 0: Disable • 1: Host server • 2: Rec server	1 and onward
central_paired_host_model	<string>	Model of paired host.	1 and onward
central_paired_host_name	<string>	Name of paired host.	1 and onward
central_rec_mask_mode	<boolean>	Prevent other user to change the setting of recording server.	1 and onward
central_rec_status	<integer>	Status of recServer. • 0: normal • 1: disable • 3: disconnect	1 and onward
central_rec_sync_time	<boolean>	Is the time of recording server syncronized with host.	1 and onward
confirm_key	<string>	Confirm key.	1 and onward
enable_video_relay	<boolean>	Enable video relay or not.	1 and onward
key	<string>	Key.	1 and onward
nvr_enable	<boolean>	Is NVR enabled.	1 and onward
nvr_lang	<string>	Language of NVR.	1 and onward
vs_enable	<boolean>	Is VisualStation enabled.	1 and onward
success	<boolean>	Success or not.	1 and onward

Example:

```
{
   "central_paired_host_model": "",
   "central_rec_status": 1,
   "central_auto_video_relay": true,
   "enable_video_relay": false,
   "confirm_key": "********",
   "central_paired_host_name": "",
   "nvr_enable": true,
   "central_rec_sync_time": false,
   "success": true,
   "central_mode": "1",
   "central_locked": false,
   "key": "********",
   "vs_enable": true,
   "central_rec_mask_mode": false,
   "central_host_ip": "",
   "nvr_lang": "",
   "central_enable": true
}
```

2.3.15.5 DoSyncData method

Get log/recording data from the target DS.

Request

Parameter	Value	Description	Availability
syncType	<integer>	*Optional*. Privilege setting. If not specified, the default value will be 0.	1 and onward
syncTargetId	<integer>	*Optional*. Syncronized target DS Id. If not specified, the default value will be 1.	1 and onward
limit	<integer>	*Optional*. limit in SQL. If not specified, the default value will be 0.	1 and onward

Example:

```
GET /webapi/entry.cgi?
version="1"&syncType=0&syncTargetId=1&api="SYNO.SurveillanceStation.CMS"&limit=0&method="DoSyncData"
```

Response

Key	Value	Description	Availability

remainCnt	<integer>	Count number of unsyncronized data.	1 and onward
syncDataList	Array of <syncDataList_info>	Syncronized data list.	1 and onward

<syncDataList_info> definition

Key	Value	Description	Availability
event_msg	<string>	Event messeage.	1 and onward
id	<integer>	Id of Log.	1 and onward
itemId	<integer>	Id of Item.	1 and onward
level	<integer>	Level of log message.	1 and onward
logGrp	<integer>	Group of message.	1 and onward
logType	<integer>	Type of Log.	1 and onward
timestamp	<integer>	Time stamp.	1 and onward

Example:

```
{
   "remainCnt": 0,
   "syncDataList": [
      {
         "itemId": 0,
         "level": 1,
         "logType": 321912959,
         "timestamp": 1422347919,
         "event_msg": "This recording server was disabled by [DS1813p_WC].",
         "logGrp": 0,
         "id": 9
      }
   ]
}
```

2.3.15.6 CheckSambaEnabled method

Check Samba service.

Request

No parameter is required.

Example:

```
GET /webapi/entry.cgi?api="SYNO.SurveillanceStation.CMS"&version="1"&method="CheckSambaEnabled"
```

Response

Key	Value	Description	Availability
sambaEnabled	<boolean>	Check Samba of target DS enabled or not.	1 and onward

Example:

```
{
   "sambaEnabled": true
}
```

2.3.15.7 BatCheckSambaService method

Check if samba service on all related rec servers is enabled.

Request

Parameter	Value	Description	Availability
dsIdList	<string >	*Optional*. DS Id list.	1 and onward

Example:

```
GET /webapi/entry.cgi?
dsIdList="3"&api="SYNO.SurveillanceStation.CMS"&version="1"&method="BatCheckSambaService"
```

Response

Key	Value	Description	Availability
allSambaEnabled	<boolean>	All Samba enabled or not.	1 and onward

Example:

```
{
   "allSambaEnabled": true
}
```

2.3.15.8 GetMDSnapshot method

Get encoded single-image snapshot of target camera.

Request

Parameter	Value	Description	Availability
camId	<integer>	*Optional*. Camera Id. If not specified, the default value will be 0.	1 and onward

Example:

```
GET /webapi/entry.cgi?
```

```
api="SYNO.SurveillanceStation.CMS"&camId=0&version="1"&method="GetMDSnapshot"
```

Response

Key	Value	Description	Availability
snapshot	<string>	Encoded MD snapshot.	1 and onward

Example:

```
{
   "snapshot": (CONTENT OF ENCODED MD SNAPSHOT)
}
```

2.3.15.9 GetCMSStatus method

Get CMS status.

Request

Parameter	Value	Description	Availability
camId	<integer>	*Optional*. Camera Id. If not specified, the default value will be 0.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.CMS"&camId=1&version="1"&method="GetCMSStatus"
```

Response

Key	Value	Description	Availability
CMSEnabled	<boolean>	The camera is enabled in CMS.	1 and onward

Example:

```
{
   "CMSEnabled": true
}
```

2.3.15.10 EnableSamba method

Enable Samba service.

Request

No parameter is required.

Example:

```
GET /webapi/entry.cgi?api="SYNO.SurveillanceStation.CMS"&version="1"&method="EnableSamba"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.15.11 NotifyCMSBreak method

Notify the target slave DS to disconnect.

Request

No parameter is required.

Example:

```
GET /webapi/entry.cgi?api="SYNO.SurveillanceStation.CMS"&version="1"&method="NotifyCMSBreak"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.15.12 LockSelf method

Lock the recording server to prevent the changing of settings from other server.

Request

Parameter	Value	Description	Availability
locked	<boolean>	*Optional*. Setting of locked recording server or not. If not specified, the default value will be false.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.CMS"&locked=false&version="1"&method="LockSelf"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.15.13 API Error Code

Code	Description
400	Execution failed.
401	Invalid parameter.
415	message connect failed.

2.3.16 SYNO.SurveillanceStation.CMS.GetDsStatus

This API provides several methods to access the status information of slave ds in CMS. (Ex: Enable CMS, Unpair/Pair CMS, GetFreeSpace, Lock, Test, Logout/Login)

API Name	Version	Availability
SYNO.SurveillanceStation.CMS.GetDsStatus	1	Surveillance Station 7.0

Method Name	Section	Availability
EnableCMS	2.3.16.1	1 and onward
UnPair	2.3.16.2	1 and onward
GetFreeSpace	2.3.16.3	1 and onward
Lock	2.3.16.4	1 and onward
Test	2.3.16.5	1 and onward
Logout	2.3.16.6	1 and onward
Pair	2.3.16.7	1 and onward
Login	2.3.16.8	1 and onward

2.3.16.1 EnableCMS method

Enable DS into recording server mode.

Request

Parameter	Value	Description	Availability
adminUsername	<string>	*Optional*. User name. If not specified, the default value will be "admin" .	1 and onward
adminPasswd	<string>	Password.	1 and onward
central_rec_mask_mode	<string>	*Optional*. Prevent other user to change the setting of recording server. If not specified, the default value will be "false" .	1 and onward
central_rec_sync_time	<string>	*Optional*. Is the time of recording server syncronized with host. If not specified, the default value will be "false" .	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.CMS.GetDsStatus"¢ral_rec_sync_time="false"&adminPasswd="123456"&
version="1"&adminUsername="admin"¢ral_rec_mask_mode="false"&method="EnableCMS"
```

Response

Key	Value	Description	Availability
status	<integer>	Status of slave DS connection. • 0: Normal • 1: Disable • 2: Unauthorized • 3: Disconnect • 4: Deleted • 5: Inaccessible • 6: Occupied • 7: Configuring • 8: Wrong type • 9: Licnese duplicated • 10: Not admin user • 11: Insufficient license • 12: Server Duplicated • 13: Unknown • 14: Rec storage removed • 15: Incompatible • 16: License invalid	1 and onward

Example:

```
{
  "status": 0
}
```

2.3.16.2 UnPair method

Unpair recording server from the host.

Request

Parameter	Value	Description	Availability
dminUsername	<string>	*Optional.* User name. If not specified, the default value will be “admin”.	1 and onward
key	<string>	*Optional.* Key.	1 and onward
mac	<string>	*Optional.*	1 and onward

		Mac address.	
cmsMode	<integer>	*Optional.* Mode of CMS. • 0: Disable • 1: Host server • 2: Rec server If not specified, the default value will be 0.	1 and onward

Example:

```
GET /webapi/entry.cgi?
cmsMode=2&api="SYNO.SurveillanceStation.CMS.GetDsStatus"&version="1"&method="UnPair"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.16.3 GetFreeSpace method

Get free size of memory in MB.

Request

No parameter is required.

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.CMS.GetDsStatus"&version="1"&method="GetFreeSpace"
```

Response

Key	Value	Description	Availability
freeSizeMb	<integer>	Free size of memory in MB.	1 and onward

Example:

```
{
   "freeSizeMb": 922467
}
```

2.3.16.4 Lock method

Handle lock slave ds.

Request

Parameter	Value	Description	Availability
lock	<boolean>	*Optional.* Lock setting. If not specified, the default value will be false.	1 and onward
adminUsername	<string>	*Optional.* User name of Host. If not specified, the default value will be “admin”.	1 and onward
key	<string>	*Optional.* Key of Host.	1 and onward
mac	<string>	*Optional.* Mac address of Host.	1 and onward
masterAuthKey	<string>	*Optional.* Authorized key of Host.	1 and onward

Example:

```
GET /webapi/entry.cgi?
masterAuthKey="14C0MON392200"&version="1"&lock=false&mac="0011323CC393"&api="SYNO.Surveilla
nceStation.CMS.GetDsStatus"&key="123456"&adminUsername="admin"&method="Lock"
```

Response

Key	Value	Description	Availability
status	<integer>	Status of slave DS connection. • 0: Normal • 1: Disable • 2: Unauthorized • 3: Disconnect • 4: Deleted • 5: Inaccessible • 6: Occupied • 7: Configuring • 8: Wrong type • 9: Licnese duplicated • 10: Not admin user • 11: Insufficient license • 12: Server Duplicated • 13: Unknown • 14: Rec storage removed • 15: Incompatible	1 and onward

		- 16: License invalid	

Example:

```
{
  "status": 0
}
```

2.3.16.5 Test method

Get the information of target DS.

Request

Parameter	Value	Description	Availability
slaveDsIp	<string>	*Optional*. IP of slave Ds.	1 and onward

Example:

```
GET /webapi/entry.cgi?
slaveDsIp=""&api="SYNO.SurveillanceStation.CMS.GetDsStatus"&version="1"&method="Test"
```

Response

Key	Value	Description	Availability
auth_key	<string>	Authorized Key.	1 and onward
cms_locked	<boolean>	Prevent the changing of settings from other server.	1 and onward
dsModel	<string>	Model of DS.	1 and onward
keyTotal	<integer>	Total number of key.	1 and onward
keyUsed	<integer>	Used number of key.	1 and onward
licenseList	<string>	List of license.	1 and onward
mac	<string>	Mac address.	1 and onward
status	<integer>	Status of slave DS connection. • 0: Normal • 1: Disable • 2: Unauthorized • 3: Disconnect • 4: Deleted • 5: Inaccessible • 6: Occupied • 7: Configuring	1 and onward

		- 8: Wrong type - 9: Licnese duplicated - 10: Not admin user - 11: Insufficient license - 12: Server Duplicated - 13: Unknown - 14: Rec storage removed - 15: Incompatible - 16: License invalid	

Example:

```
{
   "mac": "0011323CC393",
   "dsModel": "DS2015xs",
   "cms_locked": false,
   "status": 8,
   "keyTotal": 0,
   "auth_key": "14C0MON392200",
   "licenseList": "",
   "keyUsed": 0
}
```

2.3.16.6 Logout method

Handle logout slave ds.

Request

Parameter	Value	Description	Availability
adminUsername	<string>	*Optional*. User name.	1 and onward
key	<string>	*Optional*. Key.	1 and onward
mac	<string>	*Optional*. Mac address.	1 and onward

Example:

```
GET /webapi/entry.cgi?
version="1"&mac=""&api="SYNO.SurveillanceStation.CMS.GetDsStatus"&key=""&adminUsername="admin
"&method="Logout
```

Response

Key	Value	Description	Availability
status	<integer>	Status of slave DS connection. - 0: Normal - 1: Disable - 2: Unauthorized - 3: Disconnect - 4: Deleted - 5: Inaccessible - 6: Occupied - 7: Configuring - 8: Wrong type - 9: Licnese duplicated - 10: Not admin user - 11: Insufficient license - 12: Server Duplicated - 13: Unknown - 14: Rec storage removed - 15: Incompatible - 16: License invalid	1 and onward

Example:

```
{
   "status": 3
}
```

2.3.16.7 Pair method

Handle pair slave ds.

Request

Parameter	Value	Description	Availability
dsname	<string>	*Optional*. DS name of Host.	1 and onward
slaveDsIp	<string>	*Optional*. Slave DS Ip.	1 and onward
port	<integer>	*Optional*. Port of Host. If not specified, the default value will be 0.	1 and onward
masterAuthKey	<string>	*Optional*. Authorized Key of Host.	1 and onward

model	<string>	*Optional*. Model of Host.	1 and onward
mac	<string>	*Optional*. Mac address of Host.	1 and onward
cms_locked	<boolean>	*Optional*. Prevent the changing of settings from other server. If not specified, the default value will be false.	1 and onward
cms_masked	<boolean>	*Optional*. Prevent other user to change the setting of recording server. If not specified, the default value will be false.	1 and onward
cms_sync_time	<boolean>	*Optional*. Is the time of recording server syncronized with host. If not specified, the default value will be false.	1 and onward

Example:

```
GET /webapi/entry.cgi?
cms_sync_time=true&masterAuthKey="14C0MON392200"&version="1"&slaveDsIp="10.13.21.18"&dsnam
e="DiskStation"&cms_locked=true&method="Pair"&mac="00113235D696"&api="SYNO.SurveillanceStatio
n.CMS.GetDsStatus"&cms_masked=true&model="DS414j"&port=5000
```

Response

Key	Value	Description	Availability
auth_key	<string>	Authorized Key of slave DS.	1 and onward
mac	<string>	Mac address of slave DS.	1 and onward
ds_model	<string>	Model of slave DS.	1 and onward
cookie	<string>	Cookie.	1 and onward
dp_version	<string>	Device package version of slave DS.	1 and onward
dsm_version	<string>	DSM version of slave DS.	1 and onward
serial_num	<string>	Serial number of slave DS.	1 and onward
ss_version	<string>	Surveillance Station version of slave DS.	1 and onward
status	<integer>	Status of slave DS connection. • 0: Normal • 1: Disable • 2: Unauthorized • 3: Disconnect • 4: Deleted • 5: Inaccessible	

		• 6: Occupied • 7: Configuring • 8: Wrong type • 9: Licnese duplicated • 10: Not admin user • 11: Insufficient license • 12: Server Duplicated • 13: Unknown • 14: Rec storage removed • 15: Incompatible • 16: License invalid	

Example:

```
{
   "status": 2,
   "mac": "",
   "dp_version": "3.2-0604",
   "cookie": "",
   "ss_version": "7.1-3900",
   "auth_key": "",
   "ds_model": "",
   "dsm_version": "5.1-5022",
   "serial_num": "14C0MON392200"
}
```

2.3.16.8 Login method

Handle login slave ds.

Request

Parameter	Value	Description	Availability
adminUsername	<string>	*Optional*. User name of host. If not specified, the default value will be “admin”.	1 and onward
key	<string>	*Optional*. Key of host.	1 and onward
mac	<string>	*Optional*. Mac address of host.	1 and onward
masterAuthKey	<string>	*Optional*. Authorized key of host.	1 and onward
hostName	<string>	*Optional*.	1 and onward

		Host name.	
hostPort	<integer>	*Optional*. Port of host. If not specified, the default value will be 0.	1 and onward
ignoreAuthError	<string>	*Optional*. Ignore Authorized error or not. If not specified, the default value will be “no”.	1 and onward
hostDisconnect	<boolean>	*Optional*. Is host disconnected. If not specified, the default value will be false.	1 and onward
blUpdateVolSpace	<boolean>	*Optional*. Update Volume space or not. If not specified, the default value will be false.	1 and onward
enable_rec	<boolean>	*Optional*. Enable recording server or not. If not specified, the default value will be false.	1 and onward
cms_locked	<boolean>	*Optional*. Prevent the changing of settings from other server. If not specified, the default value will be true.	1 and onward
cms_masked	<boolean>	*Optional*. Prevent other user to change the setting of recording server. If not specified, the default value will be true.	1 and onward
cms_sync_time	<boolean>	*Optional*. Is the time of recording server syncronized with host. If not specified, the default value will be true.	1 and onward

Example:

```
GET /webapi/entry.cgi?
enable_rec=false&masterAuthKey=""&version="1"&hostName=""&hostDisconnect=false&mac=""&api="SY
NO.SurveillanceStation.CMS.GetDsStatus"&ignoreAuthError="no"&key=""&hostPort=0&adminUsername="
admin"&blUpdateVolSpace=false&method="Login"
```

Response

Key	Value	Description	Availability
cam_count	<integer>	Number of camera.	1 and onward
camera_info	Array of <camera_info_obj>	information of cameras.	1 and onward
cms_locked	<boolean>	Prevent the changing of settings from other server.	1 and onward

cms_masked	<boolean>	Prevent other user to change the setting of recording server.	1 and onward
cms_sync_time	<boolean>	Is the time of recording server syncronized with host.	1 and onward
cookie	<string>	Cookie.	1 and onward
default_license_cnt	<integer>	Number of default license of slave ds.	1 and onward
dp_version	<string>	Device package version of slave ds.	1 and onward
dsm_version	<string>	DSM version of slave ds of slave ds.	1 and onward
serial_num	<string>	Serial number of slave ds.	1 and onward
ss_version	<string>	Surveillance Station version of slave ds.	1 and onward
status	<integer>	Status of slave DS connection. • 0: Normal • 1: Disable • 2: Unauthorized • 3: Disconnect • 4: Deleted • 5: Inaccessible • 6: Occupied • 7: Configuring • 8: Wrong type • 9: Licnese duplicated • 10: Not admin user • 11: Insufficient license • 12: Server Duplicated • 13: Unknown • 14: Rec storage removed • 15: Incompatible • 16: License invalid	1 and onward

<camera_info_obj>

Key	Value	Description	Availability
id	<integer>	Camera Id.	1 and onward
status	<integer>	Camera connection status. • 0: Unknown • 1: Normal • 2: Connection fail • 3: Unauthorized	1 and onward

		• 4: Content error • 5: Resolution error • 6: Activating • 7: Stopping	
recStatus	<integer>	Camera recording status. • 0: None recording schedule • 1: Continue recording schedule • 2: Motion detect recording schedule • 3: Digital input recording schedule • 4: Digital input recording schedule • 5: Manual recording schedule • 6: External • 7: Analytics	1 and onward
occupied	<integer>	Occuppied size.	1 and onward
statusFlags	<integer>	Status flag.	1 and onward
livePort	<integer>	live port.	1 and onward
livePath	<string>	live path.	1 and onward

Example:

```
{
   "cms_sync_time": false,
   "default_license_cnt": 2,
   "cms_locked": false,
   "cookie": "",
   "camera_info": [],
   "dsm_version": "5.1-5022",
   "cam_count": 0,
   "serial_num": "14C0MON392200",
   "dp_version": "3.2-0604",
   "status": 3,
   "ss_version": "7.1-3900",
   "cms_masked": false
}
```

2.3.16.9 API Error Code

Code	Description
400	Execution failed.
401	Invalid parameter.

415	message connect failed.

2.3.17 SYNO.SurveillanceStation.CMS.SlavedsWizard

This API provides a method to save the setting of slave ds in CMS of Surveillance Station.

API Name	Version	Availability
SYNO.SurveillanceStation.CMS.SlavedsWizard	1	Surveillance Station 7.0

Method Name	Section	Availability
Save	2.3.17.1	1 and onward

2.3.17.1 Save method

Handle save slave ds

Request

Parameter	Value	Description	Availability
slavedsName	<string>	*Optional*. Name of slave Ds.	1 and onward
slavedsModel	<string>	*Optional*. Model of slave Ds.	1 and onward
slavedsPort	<integer>	*Optional*. Port of slave Ds. If not specified, the default value will be 0.	1 and onward
slavedsVersion	<string>	*Optional*. Surveillance version of slave Ds.	1 and onward
slavedsMaxCamNum	<integer>	*Optional*. Maximum number of camera of slave Ds. If not specified, the default value will be -1.	1 and onward
slavedsId	<string>	*Optional*. Id of slave Ds.	1 and onward
slavedsIP	<string>	*Optional*. IP of slave Ds.	1 and onward
slavedsEnable	<integer>	*Optional*. Is slave Ds enabled. • 0: false • 1: true If not specified, the default value will be 0.	1 and onward
slavedsCamCnt	<integer>	*Optional*. Count number of camera in slave Ds. If not specified, the default value will be -1.	1 and onward
adminUsername	<string>	*Optional*. Admin username.	1 and onward

		If not specified, the default value will be "admin" .	
adminPasswd	<string>	*Optional*. Admin password.	1 and onward
cms_locked	<boolean>	*Optional*. Prevent the changing of settings from other server. If not specified, the default value will be false .	1 and onward
cms_masked	<boolean>	*Optional*. Prevent other user to change the setting of recording server or not. If not specified, the default value will be false .	1 and onward
cms_sync_time	<boolean>	*Optional*. Is the time of recording server syncronized with host. If not specified, the default value will be false .	1 and onward

Example:

```
GET /webapi/entry.cgi?
cms_sync_time=true&slavedsPort=5000&version="1"&slavedsCamCnt=1&slavedsIP="10.13.21.16"&slaved
sName="DiskStation"&adminUsername="admin"&cms_locked=true&api="SYNO.SurveillanceStation.CMS.Sl
avedsWizard"&slavedsVersion="7.0-
3736"&slavedsEnable=1&cms_masked=true&adminPasswd="123456"&slavedsModel="DS414j"&slavedsM
axCamNum=8&slavedsId=""&method="Save"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.17.2 API Error Code

Code	Description
400	Execution failed.
401	Invalid parameter.
415	message connect failed.

2.3.18 SYNO.SurveillanceStation.Log

This API provides several methods to access log information of Surveillance Station. (Ex: get/clear log information detail, count log information)

API Name	Version	Availability
SYNO.SurveillanceStation.Log	1	Surveillance Station 7.0

Method Name	Section	Availability
CountByCategory	2.3.18.1	1 and onward
Clear	2.3.18.2	1 and onward
List	2.3.18.3	1 and onward
GetSetting	2.3.18.4	1 and onward
SetSetting	2.3.18.5	1 and onward

2.3.18.1 CountByCategory method

Get the count number of log in category.

Request

Parameter	Value	Description	Availability
slavedsName	<string>	*Optional*. Name of slave Ds.	1 and onward
start	<integer>	*Optional*. Value of offset in SQL. If not specified, the default value will be 0 .	1 and onward
limit	<integer>	*Optional*. Value of limit in SQL. If not specified, the default value will be 0 .	1 and onward
level	<string>	*Optional*. Type of log. • 0: None • 1: Information • 2: Warning • 3: Error If not specified, the default value will be “0”.	1 and onward
filterCamera	<string>	*Optional*. Apply camera filter or not.	1 and onward
cameraIds	<string>	*Optional*. Id list of camera.	1 and onward
from	<integer>	*Optional*.	1 and onward

		From time of filter. If not specified, the default value will be 0.	
to	<integer>	*Optional*. To time of filter. If not specified, the default value will be 0.	1 and onward
keyword	<string>	*Optional*. Keyword.	1 and onward
keywordDsId	<string>	*Optional*. Keyword of DS id.	1 and onward
time2String	<string>	*Optional*. Decide the format of time. If not specified, the default value will be “yes”.	1 and onward
dsId	<integer>	*Optional*. Id of DS. If not specified, the default value will be -1.	1 and onward
srcType	<integer>	*Optional*. Source type of log. • 0: None • 1: Local • 2: Slaveds • 4: Camera group If not specified, the default value will be 0.	1 and onward
timezoneOffset	<integer>	*Optional*. Offset of time zone. If not specified, the default value will be 0.	1 and onward

Example:

```
GET /webapi/entry.cgi?
from=0&keywordDsId=""&keyword=""&level=""&cameraIds=""&method="CountByCategory"&to=0&api="
SYNO.SurveillanceStation.Log"&limit=0&srcType=0&version="1"&filterCamera="false"&dsId=-
1&start=0&timezoneOffset=480&time2String="no"
```

Response

Key	Value	Description	Availability
date	<day_cnt>	Number of log of each day. -1: Total number count. yyyy/mm/dd: Number count of yyyy/mm/dd. (Ex:1990/05/09)	1 and onward
log_type	<type_cnt>	Number of log of each log type. • -1: Total number count.	1 and onward

		• 1: Number count of Information type. • 2: Number count of Warning type. • 3: Number count of Error type.	
server	<server_cnt>	Number of log of each server. • -1: Total number count. • X: Number count of server with X Id.	1 and onward
total	integer	Total number of log.	1 and onward

<day_cnt> definition:

Key	Value	Description	Availability
-1	<integer>	Total number count.	1 and onward
yyyy/mm/dd	<time_cnt>	Number count of log of yyyy/mm/dd. (Ex:1990/05/09)	1 and onward

<time_cnt> definition:

Key	Value	Description	Availability
-1	<integer>	Total number count.	1 and onward
am	<integer>	Number count of log in am.	1 and onward
pm	<integer>	Number count of log in pm.	1 and onward

<type_cnt> definition:

Key	Value	Description	Availability
-1	<integer>	Total number count.	1 and onward
1	<integer>	Number count of Information type.	1 and onward
2	<integer>	Number count of Warning type.	1 and onward
3	<integer>	Number count of Error type.	1 and onward

<server_cnt> definition:

Key	Value	Description	Availability
-1	<integer>	Total number count.	1 and onward
X	<integer>	Number count of log with X server Id.	1 and onward

Example:

```
{
   "date": {
      "-1": 2,
      "yyyy/mm/dd": {
         "am": 0,
         "-1": 2,
         "pm": 2
      }
   },
   "total": 2,
   "log_type": {
      "1": 2,
      "3": 0,
      "2": 0,
      "-1": 2514
   },
   "server": {
      "X": 2,
      "-1": 2
   }
}
```

2.3.18.2 Clear method

Clear the selected logs.

Request

Parameter	Value	Description	Availability
blClearAll	<boolean>	*Optional*. Clear all log or not. If not specified, the default value will be true.	1 and onward
level	<integer>	*Optional*. Type of log. • 0: None • 1: Information • 2: Warning • 3: Error If not specified, the default value will be 0.	1 and onward
dsId	<integer>	*Optional*. Id of DS. If not specified, the default value will be -1.	1 and onward
srcType	<integer>	*Optional*. Source type of log. • 0: None • 1: Local • 2: Slaveds • 4: Camera group If not specified, the default value will be 0.	1 and onward
filterCamera	<string>	*Optional*. Apply camera filter or not.	1 and onward
cameraIds	<string>	*Optional*. Id list of camera.	1 and onward
from	<integer>	*Optional*.	1 and onward

		From time of filter. If not specified, the default value will be 0.	
to	<integer>	*Optional*. To time of filter. If not specified, the default value will be 0.	1 and onward
keyword	<string>	*Optional*. Keyword.	1 and onward
keywordDsId	<string>	*Optional*. Keyword of DS id.	1 and onward
timezoneOffset	<integer>	*Optional*. Offset of time zone. If not specified, the default value will be 0.	1 and onward

Example:

```
GET /webapi/entry.cgi?
from=0&version="1"&keyword=""&level=3&cameraIds=""&to=0&api="SYNO.SurveillanceStation.Log"&blCl
earAll=false&srcType=0&filterCamera="false"&dsId=-1&method="Clear"&keywordDsId=""
```

Response

Key	Value	Description	Availability
success	<boolean>	Success or not.	1 and onward

Example:

```
{
   "success": true
}
```

2.3.18.3 List method

Get the detail information of log.

Request

Parameter	Value	Description	Availability
start	<integer>	*Optional*. Value of offset in SQL. If not specified, the default value will be 0.	1 and onward
limit	<integer>	*Optional*. Value of limit in SQL. If not specified, the default value will be 0.	1 and onward

level	<string>	*Optional*. Type of log. • 0: None • 1: Information • 2: Warning • 3: Error If not specified, the default value will be “0”.	1 and onward
filterCamera	<string>	*Optional*. Apply camera filter or not.	1 and onward
cameraIds	<string>	*Optional*. Id list of camera.	1 and onward
from	<integer>	*Optional*. From time of filter. If not specified, the default value will be 0.	1 and onward
to	<integer>	*Optional*. To time of filter. If not specified, the default value will be 0.	1 and onward
keyword	<string>	*Optional*. Keyword.	1 and onward
keywordDsId	<string>	*Optional*. Keyword of DS id.	1 and onward
time2String	<string>	*Optional*. Decide the format of time. If not specified, the default value will be “yes”.	1 and onward
dsId	<integer>	*Optional*. Id of DS. If not specified, the default value will be -1.	1 and onward
srcType	<integer>	*Optional*. Source type of log. • 0: None • 1: Local • 2: Slaveds • 4: Camera group If not specified, the default value will be 0.	1 and onward
all	<boolean>	*Optional*. List all log or not.	1 and onward
blIncludeRecCnt	<string>	*Optional*. Include recent count or not.	1 and onward
blIncludeAuInfo	<string>	*Optional*. Include audio information or not.	1 and onward

Example:

```
GET /webapi/entry.cgi?
all=false&from=0&version="1"&keyword=""&level=""&cameraIds=""&blIncludeRecCnt=""&method="List"
&api="SYNO.SurveillanceStation.Log"&to=0&blIncludeAuInfo=""&limit=0&srcType=0&filterCamera="false"
&dsId=-1&start=0&keywordDsId=""&time2String="no"
```

Response

Key	Value	Description	Availability
log	Array of <log_detail>	Information detail of log.	1 and onward
recCntData	<rec_cnt>	Recent count of log information.	1 and onward
success	<boolean>	Success or not.	1 and onward
timestamp	<string>	Time stamp.	1 and onward
total	<integer>	Total number of log.	1 and onward

<log_detail> definition:

Key	Value	Description	Availability
desc	<string>	Description of log.	1 and onward
dsId	<integer>	Id of DS.	1 and onward
id	<string>	Id of log.	1 and onward
time	<integer>	Time of log.	1 and onward
pm	<integer>	Type of log.	1 and onward
pm	<integer>	Update time of log.	1 and onward

<rec_cnt> definition:

Key	Value	Description	Availability
date	<day_cnt>	Number of log of each day. • -1: Total number count. • yyyy/mm/dd: Number count of yyyy/mm/dd. (Ex:1990/05/09)	1 and onward
log_type	<type_cnt>	Number of log of each log type. • -1: Total number count. • 1: Number count of Information type. • 2: Number count of Warning type. • 3: Number count of Error type.	1 and onward
server	<server_cnt>	Number of log of each server. • -1: Total number count. • X: Number count of server with X Id.	1 and onward

total	integer	Total number of log.	1 and onward

<day_cnt> definition:

Key	Value	Description	Availability
-1	<integer>	Total number count.	1 and onward
yyyy/mm/dd	<time_cnt>	Number count of log of yyyy/mm/dd. (Ex:1990/05/09)	1 and onward

<time_cnt> definition:

Key	Value	Description	Availability
-1	<integer>	Total number count.	1 and onward
am	<integer>	Number count of log in am.	1 and onward
pm	<integer>	Number count of log in pm.	1 and onward

<type_cnt> definition:

Key	Value	Description	Availability
-1	<integer>	Total number count.	1 and onward
1	<integer>	Number count of Information type.	1 and onward
2	<integer>	Number count of Warning type.	1 and onward
3	<integer>	Number count of Error type.	1 and onward

<server_cnt> definition:

Key	Value	Description	Availability
-1	<integer>	Total number count.	1 and onward
X	<integer>	Number count of log with X server Id.	1 and onward

Example:

```
{
   "timestamp": "1423806343",
   "total": 2514,
   "log": [
      {
         "update_time": 1423801204,
         "dsId": 0,
         "time": 1423801204,
         "type": 1,
         "id": "0_5932",
         "desc": "Recordings of camera [FE8172-001] reached size limit. [52] events was deleted."
      }
   ],
   "success": true,
   "recCntData": {
      "date": {
         "-1": 2,
         "yyyy/mm/dd": {
            "am": 0,
            "-1": 2,
            "pm": 2
          }
        },
        "total": 2,
        "log_type": {
          "1": 2,
          "3": 0,
          "2": 0,
          "-1": 2514
        },
        "server": {
          "X": 2,
          "-1": 2
        }
    }
}
```

2.3.18.4 GetSetting method

Get advanced setting of logs.

Request

No parameter is required.

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Log"&version="1"&method="GetSetting"
```

Response

Key	Value	Description	Availability
data	Array of <log_advanced_setting>	The list of all log advanced setting.	1 and onward
success	<boolean>	Get setting successly or not.	1 and onward

<log_advanced_setting> definition:

Key	Value	Description	Availability
SSLogType	<integer>	Type of log.	1 and onward
enable	<integer>	Enable of log. If the value is 1, the corrsponding log type is recorded and vice versa.	1 and onward
logGrp	<integer>	Group of log.	1 and onward
logTypeKey	<string>	Key of log.	1 and onward

Example:

```
{
   "data":[
      {
         "SSLogType":321912835,
         "enable":1,
         "logGrp":0,
         "logTypeKey":"msg_started"
      }, … ,{
         "SSLogType":321913037,
         "enable":1,
         "logGrp":2,
         "logTypeKey":"msg_alert_rotate_size_limit"
      }
   ],
   "success":true
}
```

2.3.18.5 SetSetting method

Set advanced setting of logs.

Request

Key	Value	Description	Availability
data	Array of <log_advanced_setting>	*Required.* The list of log advanced setting.	1 and onward

<log_advanced_setting> definition:

Key	Value	Description	Availability
SSLogType	<integer>	*Required.* Type of log.	1 and onward
enable	<integer>	*Required.* Enable of log. If the value is 1, the corrsponding log type is recorded and vice versa.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?api=SYNO.SurveillanceStation.Log&method=SetSetting&version=1&data=[{"SSLogType":321912835,"enable":1},{"SSLogType":321912836,"enable":0}]
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.18.6 API Error Code

Code	Description
400	Execution failed.

2.3.19 SYNO.SurveillanceStation.License

This API provides a method to acquire information of license in Surveillance Station and check if the number of license is sufficient or not.

API Name	Version	Availability
SYNO.SurveillanceStation.License	1	Surveillance Station 7.0

Method Name	Section	Availability
Load	2.3.19.1	1 and onward
CheckQuota	2.3.19.2	1 and onward

2.3.19.1 Load method

Load license data.

Request

Parameter	Value	Description	Availability
num_only	<integer>	*Optional*. Load the detail info of every License or not. • 0: false • 1: true If not specified, the default value will be 0.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.License"&num_only=1&version="1"&method="Load"
```

Response

Key	Value	Description	Availability
localCamCnt	<integer>	Number of Acting Camera.	1 and onward
blCMSLosthost	<boolean>	Is CMS host lost.	1 and onward
success	<boolean>	Load successly or not.	1 and onward

Example:

```
{
   "localCamCnt": 5,
   "blCMSLosthost": false,
   "success": true
}
```

2.3.19.2 CheckQuota method

Check the quota of license.

Request

Parameter	Value	Description	Availability
camList	Array of <CamInfo>	*Optional*. List of camera on the server.	1 and onward
camServerId	<integer>	*Optional*. Camera Server Id.	1 and onward

<CamInfo> definition:

Key	Value	Description	Availability
ip	<string>	IP of the camera.	1 and onward
port	<integer>	Port of the camera.	1 and onward
vendor	<string>	Vendor of the camera.	1 and onward
model	<string>	Model of the camera.	1 and onward

Example:

```
GET /webapi/entry.cgi?camServerId=1&camList=[{"ip": "10.13.22.141", "model": "DCS-3110", "vendor": "D-Link", "port": 80}]&api="SYNO.SurveillanceStation.License"&version="1"&method="CheckQuota"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.19.3 API Error Code

Code	Description
400	Execution failed.
407	CMS closed.
412	Need to add license.
413	Reach the maximum of platform.

2.3.20 SYNO.SurveillanceStation.Stream

This API provides methods to get Live View or Event video stream.

API Name	Version	Availability
SYNO.SurveillanceStation.Stream	1	Surveillance Station 7.0

Method Name	Section	Availability
EventStream	2.3.20.1	1 and onward

2.3.20.1 EventStream method

Get HTTP video stream of the specific recording event

Request

Parameter	Value	Description	Availability
writeHeader	<boolean>	*Optional*. Write Header or not. If not specified, the default value will be true.	1 and onward
analyevent	<boolean>	*Optional*. Is it an analytics event or not. If not specified, the default value will be false.	1 and onward
mountId	<integer>	*Optional*. Mount Id. If not specified, the default value will be 0.	1 and onward

Example:

```
GET /webapi/entry.cgi?
version="1"&writeHeader=true&mountId=0&api="SYNO.SurveillanceStation.Stream"&analyevent=false&m
ethod="EventStream"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.20.2 API Error Code

Code	Description
400	Execution failed.

2.3.21 SYNO.SurveillanceStation.ActionRule

This API provides a method to acquire information of ActionRule in Surveillance Station. (Ex: Save/List/Delete, Enable/Disable, DeleteHistory/ListHistory/DownloadHistory)

API Name	Version	Availability
SYNO.SurveillanceStation.ActionRule	1	Surveillance Station 7.0

Method Name	Section	Availability
Save	2.3.21.1	1 and onward
DownloadHistory	2.3.21.2	1 and onward
SendData2Player	2.3.21.3	1 and onward
DeleteHistory	2.3.21.4	1 and onward
List	2.3.21.5	1 and onward
Disable	2.3.21.6	1 and onward
Enable	2.3.21.7	1 and onward
ListHistory	2.3.21.8	1 and onward
Delete	2.3.21.9	1 and onward

2.3.21.1 Save method

Save the action rule.

Request

Parameter	Value	Description	Availability
id	<integer>	*Required.* Unique rule id.	1 and onward
name	<string>	*Required.* The name of the rule.	1 and onward
ruleType	<integer>	*Required.* The rule type. • 0: Triggered. • 1: Scheduled.	1 and onward
actType	<integer>	*Required.* The action type. • 0: Interruptible. • 1: Uninterruptible.	1 and onward
evtSrc	<integer>	*Conditional. When 'ruleType' is equal to 0,* The event source.	1 and onward

		• 0: Camera. • 1: External event. • 2: Door. • 3: Access controller.	
evtDsId	<integer>	*Conditional. When (not 'evtSrc' is equal to 1),* The server id of event device.	1 and onward
evtDevId	<integer>	*Conditional. When (not 'evtSrc' is equal to 1),* The device id of event device.	1 and onward
evtId	<integer>	*Required.* When the event source is external event, this is the event id. Otherwise, • 0: None. • 1: Camera enabled. • 2: Camera disabled. • 3. Camera connection lost. • 4. Camera resumed. • 5. Camera motion detected. • 6. Camera alarm detected. • 7. Camera tampering detected. • 8. Camera audio detected. • 9. Door access granted. • 10. Door access denied. • 11. Door alarm detected. • 12. Door tampering detected. • 13. Controller alarm logged. • 14. Controller casing open.	1 and onward
evtItem	<integer>	*Conditional.* When the camera support per alarm detection, can choose the alarm channel. -1: All alarm channel.	1 and onward
evtMinIntvl	<integer>	*Conditional.* The minimum interval to triggered rule. It would be needed when the event is detected for many times in the short time.	1 and onward
Actions	Array of <Action> Object	*Required* The specified Action to this rule.	1 and onward
actSchedule	<string>	*Required.* The schedule of the rule to execute.	1 and onward

<Action> Definition

Parameter	Value	Description	Availability
Id	<integer>	*Required* The action id	1 and onward
actSrc	<integer>	*Required.* The action source. • 0: Camera. • 1: External command. • 4: Surveillance Web Client	1 and onward
actDsId	<integer>	*Conditional.* The server id of action device.	1 and onward
actDevId	<integer>	*Conditional.* The device id of action device.	1 and onward
actId	<integer>	*Required.* • 0: None. • 1: Camera enabled. • 2: Camera disabled. • 3. Camera start recording. • 4. Camera take snapshot. • 5. Camera move to preset. • 6. Camera patrol. • 7. Camera auto pan. • 8. Camera object tracking. • 9. Camera audio output. • 10. Camera digital output. • 11. Surveillance Web Client audio output.	1 and onward
actTimes	<integer>	*Conditional. When (('actId' is equal to 6 and 'ruleType' is equal to 1) or ('actId' is equal to 4 and 'ruleType' is equal to 0) or ('actId' is equal to 6 and 'ruleType' is equal to 0) or ('actId' is equal to 9 and 'ruleType' is equal to 0) or ('actId' is equal to 11 and 'ruleType' is equal to 0)), Value should be between (1, 10)* The executed times of the action.	1 and onward
actTimeUnit	<integer>	*Required.* The time unit of the time duration. • -2: Forever.	1 and onward

		• 0: None. • 1: Second. • 2: Minute. • 3: Hour.	
actTimeDur	<integer>	*Required.* The duration or interval of the executed action.	1 and onward
actItemId	<integer>	*Conditional. When ('actId' is equal to 5 or 'actId' is equal to 6 or 'actId' is equal to 9 or 'actId' is equal to 10 or 'actId' is equal to 11)* It might be preset position, patrol id, digital output channel, audio pattern id.	1 and onward
actRetPos	<integer>	*Conditional. When ('actId' is equal to 5 or 'actId' is equal to 6 or 'actId' is equal to 7 or 'actId' is equal to 8)* The return position after doing action related to PTZ. • -2: None. • -1: Home	1 and onward
extUrl	<string>	*Conditional. When 'actSrc' is equal to 1,* The url command to be executed.	1 and onward
userName	<string>	*Conditional. When 'actSrc' is equal to 1,* The user name of the device to execute external command.	1 and onward
password	<string>	*Conditional. When 'actSrc' is equal to 1,* The password of the device to execute external command.	1 and onward

Example:

```
GET /webapi/entry.cgi?multiRuleId=1&name=
%221231%22&ruleType=0&actType=0&evtSrc=1&evtDsId=0&evtDevId=-
1&evtId=1&evtItem=-1&evtMinIntvl=10&actions=%5B%7B%22id%22%3A1%2C%22actSrc
%22%3A4%2C%22actDsId%22%3A0%2C%22actDevId%22%3A0%2C%22actId%22%3A11%2C
%22actItemId%22%3A15%2C%22actTimes%22%3A1%2C%22actTimeUnit%22%3A1%2C
%22actTimeDur%22%3A%2210%22%2C%22actRetPos%22%3A-1%2C%22extUrl%22%3A%22%22%2C
%22userName%22%3A%22%22%2C%22password%22%3A%22%22%7D%5D&actSchedule=
%221111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111
11111111111111111111111%22&api=SYNO.SurveillanceStation.ActionRule&method=Save&
version=2
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.21.2 DownloadHistory method

Download action rule histories.

Request

No parameter is required.

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.ActionRule"&version="1"&method="DownloadHistory"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.21.3 SendData2Player method

This method is called by player to build the connection of Surveillance Web Client. It will output audio data through http multiple response. The audio data format is 2 channel, 8000Hz, Sample size 16, Sample type signed integer, byte order littleEndian, u-law.

Request

No parameter is required.

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.ActionRule"&version="1"&method="SendData2Player"
```

Response

Response is raw data

2.3.21.4 DeleteHistory method

Delete all histories of action rule.

Request

Parameter	Value	Description	Availability
idList	<string>	*Required.* The list of rule id to be queried concatenated by ",". -1 can delete all histories.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.ActionRule"&idList="1,2,3"&version="1"&method="DeleteHistory"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.21.5 List method

List action rules.

Request

Parameter	Value	Description	Availability
Start	<integer>	*Optional.* The start to be shifted in the total result. If not specified, the default value will be 0.	1 and onward
limit	<integer>	*Optional.* Number of action rules to be returned. If not specified, return rules to the end of rule list.	1 and onward

Example:

```
GET /webapi/entry.cgi?
start=0&api="SYNO.SurveillanceStation.ActionRule"&limit=0&version="1"&method="List"
```

Response

Key	Value	Description	Availability
actRule	Array of <ActionRule>	The list of action rule.	1 and onward
total	<integer>	The total number of rules.	1 and onward

Example:

```
{
   "actRule": [
      {
            "ruleType": 0,
            "extUrl": "",
            "actDevName": "axis p3384",
            "evtDevName": "axis p3384",
            "actType": 0,
            "id": 82,
            "actId": 9,
            "actSchedule":
"1111111111111111111111111111111111111111111111111111111111111111111111111111111111111
11111111111111111111111111111111111111111111111111111111111111111111111111111111111111
11111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111",
            "actDevId": 63,
            "actTimes": 1,
            "evtId": 8,
            "actRetItem": {
                "id": -1,
                "name": ""
            },
            "status": 2,
            "userName": "",
            "actTimeDur": 1,
            "actDsId": 0,
            "evtSrc": 0,
            "password": "",
            "actTimeUnit": 1,
            "evtDsId": 0,
            "name": "p3384 audio detected p3384 audio output",
            "actItem": {
                "id": 20,
                "name": "syno1"
            },
            "actSrc": 0,
            "evtDevId": 63,
            "evtItem": -1
        }
    ],
    "total": 1
}
```

2.3.21.6 Disable method

Disable action rules.

Request

Parameter	Value	Description	Availability
idList	<string>	*Required.* The list of rule id to be queried concatenated by	1 and onward

		","	

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.ActionRule"&idList="1,2"&version="1"&method="Disable"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.21.7 Enable method

Enable action rules.

Request

Parameter	Value	Description	Availability
idList	<string>	*Required.* The list of rule id to be queried concatenated by ","	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.ActionRule"&idList="1,2"&version="1"&method="Enable"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.21.8 ListHistory method

List all histories of action rule.

Request

Parameter	Value	Description	Availability
start	<integer>	*Required.* The start to be shifted in the total result. If not specified, the default value will be 0.	1 and onward
limit	<integer>	*Required.* Number of histories to be returned. If not specified, return histories to the end of history list.	

Example:

```
GET /webapi/entry.cgi?
start=0&api="SYNO.SurveillanceStation.ActionRule"&limit=100&version="1"&method="ListHistory"
```

Response

Key	Value	Description	Availability
history	Array of <RuleHistory>	The rule history list.	1 and onward
total	<integer>	The number of total rule histories.	1 and onward

<RuleHistory> definition:

Key	Value	Description	Availability
id	<integer>	The unique id of history	1 and onward
level	<integer>	1: info, 2: warning, 3: error	1 and onward
time	<integer>	timestamp of the history.	1 and onward
ruleName	<string>	The name of triggered rule.	1 and onward
ruleType	<integer>	The type of triggered rule. 0: Triggered. 1: Scheduled.	1 and onward
actResult	<integer>	The action result of triggered rule. • 0: Finished. • 2: Interrupted. • 3: Failed. • 4: Ignored.	1 and onward

Example:

```
{
    "total": 100,
    "history": [
        {
            "ruleType": 0,
            "level": 1,
            "ruleName": "Cam motion detected triggered digital output",
            "time": 1330639700,
            "id": 1,
            "actResult": 1
        },
        {
            "ruleType": 0,
            "level": 1,
            "ruleName": "Cam digital input triggered audio output",
            "time": 1330639750,
            "id": 2,
            "actResult": 2
        },
        {
            "ruleType": 1,
            "level": 1,
            "ruleName": "Web client audio output",
            "time": 1330639810,
            "id": 3,
            "actResult": 2
        }
    ]
}
```

2.3.21.9 Delete method

Delete action rules.

Request

Parameter	Value	Description	Availability
idList	<string>	*Required.* The list of rule id to be queried concatenated by ","	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.ActionRule"&idList="1,2"&version="1"&method="Delete"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.21.10 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.

2.3.22 SYNO.SurveillanceStation.Emap

This API provides methods to get information about user-defined E-Maps.

Name	Version	Availability
SYNO.SurveillanceStation.Emap	1	Surveillance Station 6.1

Method Name	Section	Availability
List	2.3.22.1	1 and onward
GetInfo	2.3.22.2	1 and onward
GetImage	2.3.22.3	1 and onward

2.3.22.1 List method

Get the list of all E-Maps.

Request

Parameter	Value	Description	Availability
offset	<integer>	*Optional*. The offset to be shifted in the total result. If not specified, the offset will be 0.	1 and onward
limit	<integer>	*Optional*. Number of cameras to be returned. If not specified, return E-Maps to the end of E-Map list.	1 and onward

Example: List 2 E-Maps starting from offset 10.

```
GET /webapi/SurveillanceStation/emap.cgi?
api=SYNO.SurveillanceStation.Emap&method=List&version=1&offset=10&limit=2
```

Response

Key	Value	Description	Availability
total	<integer>	The number of total E-maps.	1 and onward
offset	<integer>	The shifted offset in the total result.	1 and onward
emaps	Array of <E-Map Object>	The list of queried E-Maps.	1 and onward

<E-Map Object> definition:

Key	Value	Description	Availability
id	<EMAP_ID>	Unique E-Map ID.	1 and onward
name	<string>	E-Map name.	1 and onward
imageFormat	BMP, JPG, JPEG, GIF, PNG	Image format of the E-Map image.	1 and onward
imageWidth	<integer>	Image width of the E-Map image.	1 and onward
imageHeight	<integer>	Image height of the E-Map image.	1 and onward

items	Array of <E-Map Item Object>	The list of items marked on the E-Map.	1 and onward

<E-Map Item Object> definition:

Key	Value	Description	Availability
type	0, 1	Type of the E-Map item. • 0: Camera • 1: E-Map	1 and onward
dsId	0, <DS_ID>	Unique DS ID which this E-Map item belongs to. 0: On local host. <DS_ID>: ID of a DS.	1 and onward
itemId	<integer>	Unique ID of this item. When this item is a camera, it means <CAMERA_ID>. When this item is an E-Map, it means <EMAP_ID>.	1 and onward
itemName	<string>	Name of this item. When this item is a camera, it describes camera name. When this item is an E-Map, it describes E-Map name.	1 and onward
xCoordinate	<integer>	X-coordinate of the E-Map item assuming that top-left of the E-Map is the origin.	1 and onward
yCoordinate	<integer>	Y-coordinate of the E-Map item assuming that top-left of the E-Map is the origin.	1 and onward
direction	0, 1, 2, 3, 4, 5, 6, 7,	Direction of the camera. If the type of this item is E-Map, direction will be always 0. • 0: Westward • 1: Northwestward • 2: Northward • 3: Northeastward • 4: Eastward • 5: Southeastward • 6: Southward • 7: Southwestward	1 and onward

Example:

```
{
        "total": 20,
        "offset": 10,
        "emaps": [
                {
                        "id": 30,
                        "name": "Lobby",
                        "imageFormat": “PNG”,
                        "imageWidth": 640,
                        "imageHeight": 480,
                        "items": [
                                {
                                        "type": 0,
                                        "dsId": 0,
                                        "itemId": 50,
                                        "itemName": "M1054",
                                        "xCoordinate": 10,
                                        "yCoordinate": 50,
                                        "direction": 5
```

```
				},
				{
					"type": 0,
					"dsId": 0,
					"itemId": 51,
					"itemName": "M1011",
					"xCoordinate": 10,
					"yCoordinate": 400,
					"direction": 3
				},
				{
					"type": 1,
					"dsId": 0,
					"itemId": 31,
					"itemName": "2F",
					"xCoordinate": 400,
					"yCoordinate": 400,
					"direction": 0
				}
			]
		},
		{
			"id": 31,
			"name": "2F",
			"imageFormat": “JPG”,
			"imageWidth": 480,
			"imageHeight": 480,
			"items": [
				{
					"type": 0,
					"dsId": 0,
					"itemId": 52,
					"itemName": "M1054",
					"xCoordinate": 20,
					"yCoordinate": 240,
					"direction": 4
				},
				{
					"type": 0,
					"dsId": 1,
					"itemId": 5,
					"itemName": "P1346",
					"xCoordinate": 400,
					"yCoordinate": 25,
					"direction": 6
				}
			]
		}
	]
}
```

2.3.22.2 GetInfo method

Get specific E-Map settings.

Request

Parameter	Value	Description	Availability
emapIds	<string>	The list of <EMAP_ID> to be queried concatenated by “,”.	1 and onward

Example: Get E-Map information with ID 31.

```
GET /webapi/SurveillanceStation/emap.cgi?
api=SYNO.SurveillanceStation.Emap&method=GetInfo&version=1&emapIds=31
```

Response

Key	Value	Description	Availability
emaps	Array of <E-Map Object>	The list of all queried E-Maps.	1 and onward

Example:

```
{
	"emaps": [{
			"id": 31,
			"name": "2F",
			"imageFormat": “JPG”,
			"imageWidth": 480,
			"imageHeight": 480,
			"items": [
				{
					"type": 0,
					"dsId": 0,
					"itemId": 52,
					"itemName": "M1054",
					"xCoordinate": 20,
					"yCoordinate": 240,
					"direction": 4
				},
				{
					"type": 0,
					"dsId": 1,
					"itemId": 5,
					"itemName": "P1346",
					"xCoordinate": 400,
					"yCoordinate": 25,
					"direction": 6
				}
			]
		}
	]}
```

2.3.22.3 GetImage method

Get the image of the selected E-Map in its original format.

Request

Parameter	Value	Description	Availability
emapId	<EMAP_ID>	Unique E-Map ID.	1 and onward

Example:

```
GET /webapi/SurveillanceStation/emap.cgi?
api=SYNO.SurveillanceStation.Emap&method=GetImage&version=1&emapId=10
```

Response

The binary image data. Its MIME type depends on E-map's original image format.

Example:

```
HTTP/1.0 200 OK
Content-Type: image/jpeg

<Binary JPEG image data>
```

2.3.22.4 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.

2.3.23 SYNO.SurveillanceStation.Streaming

This API provides methods to get Live View or Event video stream.

Name	Version	Availability
SYNO.SurveillanceStation.Streaming	1	Surveillance Station 6.0-2337

Method Name	Section	Availability
LiveStream	2.3.23.1	1 and onward
EventStream	2.3.23.2	1 and onward

2.3.23.1 LiveStream method

Get a HTTP Live View video stream of the camera with given ID.

Request

Parameter	Value	Description	Availability
cameraId	<CAMERA_ID>	Unique camera ID.	1 and onward

Example:

```
GET /webapi/SurveillanceStation/streaming.cgi?
api=SYNO.SurveillanceStation.Streaming&method=LiveStream&version=1&cameraId=10
```

Response

Server will deliver a server push multipart image stream in response. Some HTTP headers may be inserted between the boundary string and the data chunk, as listed below:

Header	Description
Content-Type	The possible values are listed as follows: ● “image/JPEG” – JPEG image data part ● “image/MP4V-ES” – MPEG4 image data part ● “image/H264” – H264 image data part ● “audio/AC3” – AAC audio data part ● “audio/L16” – PCM audio data part ● “audio/PCMU” – G.711 u-law audio data part ● “audio/PCMA” – G.711 a-law audio data part ● “audio/G726” – G.726 audio data part ● “audio/AMR” – AMR audio data part
Content-Length	The data length of the data chunk
Vdo-ExtraSize:<Size> <Video extra data>	(MPEG4/H.264 only) The video extra data for decode. Note that there are <Size> bytes of <Video extra data> followed by this header
Ado-ExtraSize:<Size> <Audio extra data>	(MPEG4/H.264 only) The audio extra data for decode. Note that there are <Size> bytes of <Audio extra data> followed by this header
Timestamp	(MPEG4/H.264 only) The timestamp of the video frame

Codec	(MPEG4/H.264 only) The video and audio codec of the current stream

Example 1: MJPEG Live View stream

```
HTTP/1.1 200 OK
Date: Fri, 25 May 2012 05:59:39 GMT
Server: Apache/2.2.22 (Unix)
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Transfer-Encoding: chunked
Content-Type: multipart/x-mixed-replace;boundary=myboundary

--myboundary
Content-Type: image/jpeg
Content-Length: 46414

<JPEG image data>
--myboundary
Content-Type: image/jpeg
Content-Length: 59831

<JPEG image data>
--myboundary
Content-Type: image/jpeg
Content-Length: 36914

<JPEG image data>
...
```

Example 2: MPEG4 Live View stream

```
HTTP/1.1 200 OK
Date: Sat, 03 Mar 2012 07:18:45 GMT
Server: Apache/2.2.22 (Unix) mod_ssl/2.2.22 OpenSSL/1.0.0g
Connection: close
Content-Type: multipart/x-mixed-replace;boundary=myboundary

--myboundary
Vdo-ExtraSize:31
<MPEG4 video extra data>
Ado-ExtraSize:7
<MPEG4 audio extra data>
Timestamp: 1330759125734514
Codec:MP4V-ES;L16
Content-Type: image/MP4V-ES
Content-Length: 2349

<MPEG4 video data>
--myboundary
Vdo-ExtraSize:31
<MPEG4 video extra data>
```

```
Ado-ExtraSize:7
<MPEG4 audio extra data>
Timestamp:1330958772513972
Codec:MP4V-ES;L16
Content-Type: audio/L16
Content-Length: 1024

<MPEG4 audio data>
…
```

2.3.23.2 EventStream method

Get HTTP video stream of the specific recording event.

Request

Parameter	Value	Description	Availability
eventId	<EVENT_ID>	Unique event ID. Event ID could be obtained by SYNO.SurveillanceStation.Event API (section 2.3.39).	1 and onward

Note that you can insert the "Range" header within request messages to indicate the particular range of the video file. For example:

Range: bytes=0-9999999

This means to request the data between 0 and 9999999 byte of the event file.

Example: The request header to get the whole event **.**

```
GET /webapi/SurveillanceStation/streaming.cgi?
api=SYNO.SurveillanceStation.Streaming&method=EventStream&version=1
&eventId=200
User-Agent: My Media Player
Range: bytes=0-
Icy-MetaData: 1
```

Response

Server will deliver a 206 Partial Content response containing the following headers:

Header	Description
Accept-Ranges	Let clients know that server accept byte range request.
Content-Length	The data length of the data chunk actually returned.
Content-Range	The requested range of byte for the data in the body.
Content-Type	The possible values are shown as follows: ● "video/avi" – MJPEG format event ● "video/mp4" – MPEG4/H.264 format event

Example: MPEG4 Event stream**.**

```
HTTP/1.1 206 Partial Content
Date: Mon, 05 Mar 2012 15:50:34 GMT
Server: Apache/2.2.22 (Unix) mod_ssl/2.2.22 OpenSSL/1.0.0g
Accept-Ranges: bytes
Content-Length: 9298055
Content-Range: bytes 19244797-28542851/28542852
Connection: close
Content-Type: video/mp4

<MPEG4 event file data>
```

2.3.23.3 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.
402	Camera disabled.
403	Insufficient license.

2.3.24 SYNO.SurveillanceStation.AudioStream

This API provides methods to get Live View audio stream.

Name	Version	Availability
SYNO.SurveillanceStation.AudioStream	2	Surveillance Station 6.3

Method Name	Section	Availability
Stream	2.3.24.1	2 and onward
Query	2.3.24.2	2 and onward
Open	2.3.24.3	2 and onward
Close	2.3.24.4	2 and onward

2.3.24.1 Stream method

Get Live View audio stream of the camera with given ID.

Request

Parameter	Value	Description	Availability
cameraId	<CAMERA_ID>	Unique camera ID.	1 and onward

Example:

```
GET /webapi/SurveillanceStation/audioStreaming.cgi?
api=SYNO.SurveillanceStation.AudioStream&method=Stream&version=2&cameraId=10
```

Response

Header	Description
Content-Type	The possible values are listed as follows: ● “audio/mpeg” – mp3 audio data part

Example:

```
HTTP/1.1 200 OK
Date: Fri, 25 May 2012 05:59:39 GMT
Server: Apache
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Transfer-Encoding: chunked
Content-Type: audio/mpeg

<MPEG audio data>
...
```

2.3.24.2 Query method

Query the format of live view audio stream of the camera with given ID.

Request

Parameter	Value	Description	Availability
cameraId	<CAMERA_ID>	Unique camera ID.	1 and onward

Example:

```
GET /webapi/SurveillanceStation/audioStreaming.cgi?
api=SYNO.SurveillanceStation.AudioStream&method=Query&version=2&cameraId=10
```

Response

Parameter	Value	Description	Availability
format	<string>	The audio format	1 and onward

Example:

```
"format": "mp3"
```

2.3.24.3 Open method

Open the live view audio stream of the camera with given ID.

Request

Parameter	Value	Description	Availability
cameraId	<CAMERA_ID>	Unique camera ID.	1 and onward

Example:

```
GET /webapi/SurveillanceStation/audioStreaming.cgi?
api=SYNO.SurveillanceStation.AudioStream&method=Open&version=2&cameraId=10
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.24.4 Close method

Close live view audio streaming of the camera with given ID.

Request

Parameter	Value	Description	Availability
cameraId	<CAMERA_ID>	Unique camera ID.	1 and onward

Example:

```
GET /webapi/SurveillanceStation/audioStreaming.cgi?
api=SYNO.SurveillanceStation.AudioStream&method=Close&version=1&cameraId=10
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.24.5 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.
402	Camera disabled.
403	Insufficient license.
0	Codec acitvation failed

2.3.25 SYNO.SurveillanceStation.VideoStream

This API provides methods to get Live View video stream.

Name	Version	Availability
SYNO.SurveillanceStation.VideoStream	1	Surveillance Station 6.3

Method Name	Section	Availability
Stream	2.3.25.1	1 and onward
Query	2.3.25.2	1 and onward

2.3.25.1 Stream method

Get Live View video stream of the camera with given ID.

Request

Parameter	Value	Description	Availability
cameraId	<CAMERA_ID>	Unique camera ID.	1 and onward
format	<string>	• hls • mjpeg	1 and onward
SliceId	<integer>	*Optional*. hls slice ID. It's the in M3U8 file.	1 and onward

Example 1: hls format without SliceId

```
GET /webapi/SurveillanceStation/videoStreaming.cgi?
api=SYNO.SurveillanceStation.VideoStream&method=Stream&version=1&cameraId=10&format=hls
```

Example 2: hls format with SliceId

```
GET /webapi/SurveillanceStation/videoStreaming.cgi?
api=SYNO.SurveillanceStation.VideoStream&method=Stream&version=1&cameraId=10&format=hls&SliceI
d=5
```

Response

Header	Description
Content-Type	The possible values are listed as follows: ● “application/x-mpegURL” - M3U8 ● “video/MP2T” - hls ● “image/jpeg” - JPEG image data part

Example 1: hls format without SliceId return M3U8 file

```
HTTP/1.1 200 OK
Date: Fri, 25 May 2012 05:59:39 GMT
```

```
Server: Apache
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Transfer-Encoding: chunked
Content-Type:  application/x-mpegURL

<M3U8 file>
...
```

<M3U8 file>

```
#EXTM3U
#EXT-X-VERSION:3
#EXT-X-MEDIA-SEQUENCE:1
#EXT-X-ALLOW-CACHE:NO
#EXT-X-TARGETDURATION:2
#EXTINF:2.000000,
http://IP/webapi/SurveillanceStation/videoStreaming.cgiapi=SYNO.SurveillanceStation.VideoStream&meth
od=Stream&version=1&_sid=RBoqpARg46F96ABCDE00000&cameraId=3&isRedirectCgi=0&SliceId=3/1.ts
#EXTINF:2.000000,
http://IP/webapi/SurveillanceStation/videoStreaming.cgiapi=SYNO.SurveillanceStation.VideoStream&meth
od=Stream&version=1&_sid=RBoqpARg46F96ABCDE00000&cameraId=3&isRedirectCgi=0&SliceId=3/2.ts
#EXTINF:2.000000,
http://IP/webapi/SurveillanceStation/videoStreaming.cgiapi=SYNO.SurveillanceStation.VideoStream&meth
od=Stream&version=1&_sid=RBoqpARg46F96ABCDE00000&cameraId=3&isRedirectCgi=0&SliceId=3/3.ts
#EXTINF:2.000000,
http://IP/webapi/SurveillanceStation/videoStreaming.cgiapi=SYNO.SurveillanceStation.VideoStream&meth
od=Stream&version=1&_sid=RBoqpARg46F96ABCDE00000&cameraId=3&isRedirectCgi=0&SliceId=3/4.ts
```

Example 2: hls format without SliceId

```
HTTP/1.1 200 OK
Date: Fri, 25 May 2012 05:59:39 GMT
Server: Apache
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Transfer-Encoding: chunked
Content-Type:  video/MP2T

<video data>
...
```

2.3.25.2 Query method

Query the format of liveview video stream of the camera with given ID.

Request

Parameter	Value	Description	Availability
cameraId	<CAMERA_ID>	Unique camera ID.	1 and onward

Example:

```
GET /webapi/SurveillanceStation/videoStreaming.cgi?
api=SYNO.SurveillanceStation.VideoStream&method=Query&version=1&cameraId=10
```

Response

Parameter	Value	Description	Availability
format	<string>	The video format. • hls • mjpeg	1 and onward

Example:

```
"format": "hls"
```

2.3.25.3 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.
402	Camera disabled.
403	Insufficient license.
404	Codec acitvation failed

2.3.26 SYNO.SurveillanceStation.Notification

This API provides a method to get authorized token of DS, and user can register push service by this token.

Name	Version	Availability
SYNO.SurveillanceStation.Notification	1	Surveillance Station 6.3
SYNO.SurveillanceStation.Notification	2	Surveillance Station 7.0

Method Name	Section	Availability
GetRegisterToken	2.3.26.1	1 and onward
SetCustomizedMessage	2.3.26.2	4 and onward
GetCustomizedMessage	2.3.26.3	4 and onward
SetVariables	2.3.26.4	4 and onward
GetVariables	2.3.26.5	4 and onward
SetAdvSetting	2.3.26.6	4 and onward
GetAdvSetting	2.3.26.5	4 and onward

2.3.26.1 GetRegisterToken method

Get the authorized token of DS.

Request

No parameters.

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Notification"&version="1"&method="GetRegisterToken"
```

Response

Key	Value	Description	Availability
oauth_id	<integer>	id	1 and onward
token	<string>	Authorized token	1 and onward

Example:

```
{
   "token":
"MlFaYk9lK3RvSlU9fFBJaGVWLzhyVUhyRVZCMnRjelNvWUQrTm4rbU9malEwY0JlQ0tleHJHVFFGS2lheWR6Q
StOdGJjVGtYc0t4cms=",
   "oauth_id": 836782578
}
```

2.3.26.2 SetCustomized Message

Set message and subject for specified event

Request

Parameter	Value	Description	Availability
eventTypes	<string>	The specified event	4 and onward
subject	<string>	Subject of the message	4 and onward
content	<string>	*Optional.* Content of the message	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
version="2"&content="XXX"&api="SYNO.SurveillanceStation.Notification"&eventTypes="19"&method="Set
CustomizedMessage"&subject="Title"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.26.3 GetCustomizedMessage method

Get message and subject from specified event

Request

Parameter	Value	Description	Availability
eventTypes	<integer>	An integer indicate the type of event	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
eventType=19&api="SYNO.SurveillanceStation.Notification"&version="2"&method="GetCustomizedMessa
ge"
```

Response

Key	Value	Description	Availability
defaultMessage	<CustomizedMsg Object>	System default message	4 and onward
Message	<CustomizedMsg Object>	User defined message	4 and onward

<CustomizedMsg Object> definition:

Key	Value	Description	Availability
content	<string>	Content of the message	4 and onward
subject	<string>	Subject of the message	4 and onward

Example:

```
{
    "defaultMessage": {
        "content": "Dear user,\n\n%DEVICE_TYPE% %DEVICE_NAME% on %SS_HOSTNAME% has been
successfully added to Surveillance Station.\n\nSincerely,\n%SS_PKG_NAME%",
        "subject": "%DEVICE_TYPE% %DEVICE_NAME% on %SS_HOSTNAME% has been added"
    },
    "message": {
        "content": "Body",
        "subject": "Title"
    }
}
```

2.3.26.4 SetVariables method

Set the sender name of notifications

Request

Parameter	Value	Description	Availability
ss_pkg_name	<string>	The sender name of each notification	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Notification"&version="1"&ss_pkg_name="Synology in
test"&method="SetVariables"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.26.5 GetVariables method

Return the sender name of notifications

Request

No parameters.

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Notification"&version="1"&method="GetVariables"
```

Response

key	Value	Description	Availability
ss_pkg_name	<string>	The sender name of each notification	4 and onward

Example:

```
{
    "ss_pkg_name": "Synology Surveillance Station"
}
```

2.3.26.6 SetAdvSetting method

Set advanced notification settings

Request

Parameter	Value	Description	Availability
blSyncDSMNotify	<boolean>	If the settings is the same as DSM.	4 and onward
blCompactMsg	<boolean>	If identical messages will be compressed	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api=SYNO.SurveillanceStation.Notification&method=SetAdvSetting&version=3&blSyncDSMNotify=true&blC
ompactMsg=false
```

Response

Parameter	Value	Description	Availability
blCopyMail	<boolean>	If the mail settings successfully sync to DSM.	4 and onward
blCopyPush	<boolean>	If the push settings successfully sync to DSM.	4 and onward
blCopySms	<boolean>	If the SMS settings successfully sync to DSM.	4 and onward

Example:

```
{
    "blCopyMail":false,"blCopyPush":false,"blCopySms":false
}
```

2.3.26.7 GetAdvSetting method

Get notification advanced settings.

Request

No parameter required.

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api=SYNO.SurveillanceStation.Notification&method=GetAdvSetting&version=3
```

Response

Parameter	Value	Description	Availability
blCompactMsg	<boolean>	If identical messages will be compressed	4 and onward
blDSMJoinCMS	<boolean>	If DSM joined in CMS environment	4 and onward
blFirstOpen	<boolean>	If the api is called at the first open of the app	4 and onward
blSyncDSMNotify	<boolean>	If the settings is the same as DSM.	4 and onward

Example:

```
{
    "blCompactMsg":false,"blDSMJoinCMS":false,"blFirstOpen":false,"blSyncDSMNotify":true
}
```

2.3.26.8 API Error Code

Code	Description
400	Execution failed.

2.3.27 SYNO.SurveillanceStation.Notification.SMS

Notification.SMS doc

Name	Version	Availability
SYNO.SurveillanceStation.Notification.SMS	1	Surveillance Station 6.3

Method Name	Section	Availability
SendTestMessage	2.3.27.1	4 and onward
GetSetting	2.3.27.2	4 and onward
SetSetting	2.3.27.3	4 and onward

2.3.27.1 SendTestMessage method

Send test message to the primary and secondary(if exists) phone number

Request

Parameter	Value	Description	Availability
smsEnable	<boolean>	*Optional.* Is SMS enabled?	4 and onward
smsMethod	0, 1, 2	*Optional.* The method of SMS service • 0: NONE • 1: The same as DSM • 2: Customized setting below	4 and onward
smsProvider	<string>	*Optional.* The provider of SMS service	4 and onward
userName	<string>	*Optional.* User name of the SMS service	4 and onward
password	<string>	*Optional.* User password of the SMS service	4 and onward
confirmPassword	<string>	*Optional.* The confirming password	4 and onward
primaryPhoneCode	<string>	*Optional.* Phone code of the primary phone	4 and onward
primaryPhonePrefix	<string>	*Optional.* Prefix of the primary phone	4 and onward
primaryPhoneNumber	<string>	*Optional.* Phone number of the primary phone	4 and onward
secondaryPhoneCode	<string>	*Optional.* Phone code of the secondary phone	4 and onward
secondaryPhonePrefix	<string>	*Optional.* Prefix of the secondary phone	4 and onward
secondaryPhoneNumber	<string>	*Optional.* Phone number of the secondary phone	4 and onward

setMinMessageInterval	<boolean>	*Optional.* Is minimum message interval set	4 and onward
minMessageInterval	<integer>	*Optional.* Minimum message interval	4 and onward
hasSysSms	<boolean>	*Optional.* Is Syno-SMS enabled	4 and onward
apiId	<string>	*Optional.* ID of API	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
primaryPhoneCode="886"&smsEnable=true&primaryPhonePrefix="+"&version="1"&smsProvider="clickate
ll"&apiId="XD"&primaryPhoneNumber="1234567"&api="SYNO.SurveillanceStation.Notification.SMS"&min
MessageInterval=1&password="%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC
%83%EF%BC%83%EF%BC%83"&confirmPassword="%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF
%BC%83%EF%BC%83%EF%BC%83%EF%BC
%83"&secondaryPhoneNumber=""&userName="SynoTest"&smsMethod=2&hasSysSms=false&setMinMess
ageInterval=false&secondaryPhonePrefix=""&secondaryPhoneCode=""&method="SendTestMessage"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.27.2 GetSetting method

Get setting of notification by SMS

Request

No parameters.

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Notification.SMS"&version="1"&method="GetSetting"
```

Response

Key	Value	Description	Availability
smsEnable	<boolean>	*Optional.* Is SMS enabled?	4 and onward
smsMethod	0, 1, 2	*Optional.* The method of SMS service • 0: NONE • 1: The same as DSM • 2: Customized setting below	4 and onward

smsProvider	<string>	*Optional.* The provider of SMS service	4 and onward
userName	<string>	*Optional.* User name of the SMS service	4 and onward
password	<string>	*Optional.* User password of the SMS service	4 and onward
confirmPassword	<string>	*Optional.* The confirming password	4 and onward
primaryPhoneCode	<string>	*Optional.* Phone code of the primary phone	4 and onward
primaryPhonePrefix	<string>	*Optional.* Prefix of the primary phone	4 and onward
primaryPhoneNumber	<string>	*Optional.* Phone number of the primary phone	4 and onward
secondaryPhoneCode	<string>	*Optional.* Phone code of the secondary phone	4 and onward
secondaryPhonePrefix	<string>	*Optional.* Prefix of the secondary phone	4 and onward
secondaryPhoneNumber	<string>	*Optional.* Phone number of the secondary phone	4 and onward
setMinMessageInterval	<boolean>	*Optional.* Is minimum message interval set	4 and onward
minMessageInterval	<integer>	*Optional.* Minimum message interval	4 and onward
hasSysSms	<boolean>	*Optional.* Is Syno-SMS enabled	4 and onward

Example:

```
{
    "primaryPhoneCode": "",
    "smsEnable": false,
    "primaryPhonePrefix": "",
    "smsMethod": 0,
    "primaryPhoneNumber": "",
    "minMessageInterval": 1,
    "password": "",
    "confirmPassword": "",
    "userName": "",
    "secondaryPhoneNumber": "",
    "smsProvider": "clickatell",
    "hasSysSms": false,
    "setMinMessageInterval": false,
    "secondaryPhonePrefix": "",
    "secondaryPhoneCode": ""
}
```

2.3.27.3 SetSetting method

Set SMS service settings

Request

Parameter	Value	Description	Availability
smsEnable	<boolean>	*Optional.* Is SMS enabled?	4 and onward
smsMethod	0, 1, 2	*Optional.* The method of SMS service • 0: NONE • 1: The same as DSM • 2: Customized setting below	4 and onward
smsProvider	<string>	*Optional.* The provider of SMS service	4 and onward
userName	<string>	*Optional.* User name of the SMS service	4 and onward
password	<string>	*Optional.* User password of the SMS service	4 and onward
confirmPassword	<string>	*Optional.* The confirming password	4 and onward
primaryPhoneCode	<string>	*Optional.* Phone code of the primary phone	4 and onward
primaryPhonePrefix	<string>	*Optional.* Prefix of the primary phone	4 and onward
primaryPhoneNumber	<string>	*Optional.* Phone number of the primary phone	4 and onward
secondaryPhoneCode	<string>	*Optional.* Phone code of the secondary phone	4 and onward
secondaryPhonePrefix	<string>	*Optional.* Prefix of the secondary phone	4 and onward
secondaryPhoneNumber	<string>	*Optional.* Phone number of the secondary phone	4 and onward
setMinMessageInterval	<boolean>	*Optional.* Is minimum message interval set	4 and onward
minMessageInterval	<integer>	*Optional.* Minimum message interval	4 and onward
hasSysSms	<boolean>	*Optional.* Is Syno-SMS enabled	4 and onward
apiId	<string>	*Optional.* ID of API	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
primaryPhoneCode="886"&smsEnable=true&primaryPhonePrefix="+"&version="1"&smsProvider="clickate
ll"&apiId="XD"&primaryPhoneNumber="1234567"&api="SYNO.SurveillanceStation.Notification.SMS"&min
```

```
MessageInterval=1&password="%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC
%83%EF%BC%83%EF%BC%83"&confirmPassword="%EF%BC%83%EF%BC%83%EF%BC%83%EF%BC%83%EF
%BC%83%EF%BC%83%EF%BC%83%EF%BC
%83"&secondaryPhoneNumber=""&userName="SynoTest"&smsMethod=2&hasSysSms=false&setMinMess
ageInterval=false&secondaryPhonePrefix=""&secondaryPhoneCode=""&method="SetSetting"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.27.4 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.
402	Camera disabled.
403	Insufficient license.
404	Codec acitvation failed

2.3.28 SYNO.SurveillanceStation.Notification.PushService

This API provides basic operation for push service

Name	Version	Availability
SYNO.SurveillanceStation.Notification.SMS	1	Surveillance Station 6.3

Method Name	Section	Availability
SendTestMessage	2.3.28.1	4 and onward
GetSetting	2.3.28.2	4 and onward
SetSetting	2.3.28.3	4 and onward
SendVerificationMail	2.3.28.4	4 and onward
ListMobileDevice	2.3.28.5	4 and onward
UnpairMobileDevice	2.3.28.6	4 and onward

2.3.28.1 SendTestMessage method

Send test message to the primary and secondary(if exists) phone number

Request

Parameter	Value	Description	Availability
attachSnapshot	<boolean>	Does the push service provide snapshot	4 and onward
enableInterval	<boolean>	*Optional.* Is the the service of minimum interval between messages enabled	4 and onward
mobileEnable	<boolean>	*Optional.* Is mobile device the destination of the push service	4 and onward
msgInterval	<integer>	*Optional.* The minimum interval of messages in minute	4 and onward
primaryEmail	<string>	*Optional.* Primary email	4 and onward
secondaryEmail	<string>	*Optional.* Secondary email	4 and onward
synoMailEnable	<boolean>	*Optional.* Does the push service provides notification to Synomails	4 and onward
mail_recipient	<string>	*Optional.* In the format "primaryMail;secondaryMail"	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
attachSnapshot=true&primaryEmail="b95056@csie.ntu.edu.tw"&enableInterval=false&mail_recipient="b9
5056@csie.ntu.edu.tw"&api="SYNO.SurveillanceStation.Notification.PushService"&msgInterval=1&synoMa
```

```
ilEnable=true&secondaryEmail=""&version="1"&mobileEnable=false&method="SendTestMessage"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.28.2 GetSetting method

Get customized settings

Request

No parameters.

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Notification.PushService"&version="1"&method="GetSetting"
```

Response

Key	Value	Description	Availability
attachSnapshot	<boolean>	Does the push service provide snapshot	4 and onward
enableInterval	<boolean>	*Optional.* Is the the service of minimum interval between messages enabled	4 and onward
mobileEnable	<boolean>	*Optional.* Is mobile device the destination of the push service	4 and onward
msgInterval	<integer>	*Optional.* The minimum interval of messages in minute	4 and onward
primaryEmail	<string>	*Optional.* Primary email	4 and onward
secondaryEmail	<string>	*Optional.* Secondary email	4 and onward
synoMailEnable	<boolean>	*Optional.* Does the push service provides notification to Syno-mails	4 and onward
unverifiedMails	<string>	*Optional.* List of unverified emails	4 and onward

Example:

```
{
    "attachSnapshot": true,
    "primaryEmail": "b95056@csie.ntu.edu.tw",
    "synoMailEnable": true,
    "enableInterval": false,
    "secondaryEmail": "",
    "msgInterval": 1,
    "unverifiedMails": "",
    "mobileEnable": false
}
```

2.3.28.3 SetSetting method

Set customized settings

Request

Parameter	Value	Description	Availability
attachSnapshot	<boolean>	Does the push service provide snapshot	4 and onward
enableInterval	<boolean>	*Optional.* Is the the service of minimum interval between messages enabled	4 and onward
mobileEnable	<boolean>	*Optional.* Is mobile device the destination of the push service	4 and onward
msgInterval	<integer>	*Optional.* The minimum interval of messages in minute	4 and onward
primaryEmail	<string>	*Optional.* Primary email	4 and onward
secondaryEmail	<string>	*Optional.* Secondary email	4 and onward
synoMailEnable	<boolean>	*Optional.* Does the push service provides notification to Synomails	4 and onward
mail_recipient	<string>	*Optional.* In the format "primaryMail;secondaryMail"	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
attachSnapshot=true&primaryEmail="b95056@csie.ntu.edu.tw"&enableInterval=false&mail_recipient="b95056@csie.ntu.edu.tw"&api="SYNO.SurveillanceStation.Notification.PushService"&msgInterval=1&synoMailEnable=true&secondaryEmail=""&version="1"&mobileEnable=false&method="SetSetting"
```

Response

Key	Value	Description	Availability
unverifiedMails	<boolean>	List of unverified emails	4 and onward

Example:

```
{
    "unverifiedMails": ""
}
```

2.3.28.4 SendVerificationMail method

Send verification mail to all recipient

Request

Parameter	Value	Description	Availability
mailAccounts	<string>	The mail account that is to be verified	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Notification.PushService"&mailAccounts="syno.rbx@gmail.com"&version="
1"&method="SendVerificationMail"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.28.5 ListMobileDevice method

List the mobile devices that are paired

Request

No parameters.

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Notification.PushService"&version="1"&method="ListMobileDevice"
```

Response

Key	Value	Description	Availability
list	Array of <Paired object>	List of paired device	4 and onward

<Paired object> definition:

Key	Value	Description	Availability
appVersion	<string>	Version of the application installed on the device	4 and onward
deviceName	<string>	Name of the device	4 and onward
firmwareVersion	<string>	Firmware version of the device	4 and onward
targetId	<integer>	The id of the target device	4 and onward

Example:

```
{
    "list": [
        {
            "deviceName": "ASUS_T00F",
            "targetId": 4296562,
            "appVersion": "2.5-213",
            "firmwareVersion": "Android 4.4.2"
        }
    ]
}
```

2.3.28.6 UnpairMobileDevice method

Unpair the paired mobile device

Request

Parameter	Value	Description	Availability
targetIds	<string>	The list of paired id of the devices that are to be unpaired	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
attachSnapshot=true&primaryEmail="b95056@csie.ntu.edu.tw"&enableInterval=false&mail_recipient="b9
5056@csie.ntu.edu.tw"&api="SYNO.SurveillanceStation.Notification.PushService"&msgInterval=1&synoMa
ilEnable=true&secondaryEmail=""&version="1"&mobileEnable=false&method="SetSetting"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.28.7 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.
402	Camera disabled.
403	Insufficient license.
404	Codec acitvation failed

2.3.29 SYNO.SurveillanceStation.Notification.Schedule

This API provides a method to get authorized token of DS, and user can register push service by this token.

Name	Version	Availability
SYNO.SurveillanceStation.Notification.Schedule	1	Surveillance Station 6.3

Method Name	Section	Availability
GetAccessControlControllerSchedule	2.3.29.1	4 and onward
GetCameraAlarmSchedule	2.3.29.2	4 and onward
GetSystemDependentSchedule	2.3.29.3	4 and onward
SetBatchSchedule	2.3.29.4	4 and onward
GetAccessControlDoorSchedule	2.3.29.5	4 and onward
GetCameraSchedule	2.3.29.6	4 and onward
SetSystemDependentSchedule	2.3.29.7	4 and onward
SetAccessControlSchedule	2.3.29.8	4 and onward
SetCameraSchedule	2.3.29.9	4 and onward

2.3.29.1 GetAccessControlControllerSchedule method

Get schedule of access control controller

Request

Parameter	Value	Description	Availability
doorId	<integer>	Id of the specified door	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
doorId=1&api="SYNO.SurveillanceStation.Notification.Schedule"&version="1"&method="GetAccessControl
ControllerSchedule"
```

Response

Key	Value	Description	Availability
list	Array of <EventSch Object>	List of event scheduling	4 and onward

<EventSch Object> definition:

Key	Value	Description	Availability
eventType	0 … 46	Type of event • 0 : Testing email • 1 : Camera added • 2 : Camera deleted • 3 : Camera connection lost • 4 : Camera connection resumed	4 and onward

		• 5 : Motion detected • 6 : SS_ALARM_TRIGGERRED • 7 : SS_MD_ALARM_TRIG • 8 : Audio detected • 9 : Tampering detected • 10: Rotation limit reached • 11: VisualStation added • 12: VisualStation deleted • 13: VisualStation connection lost • 14: VisualStation connection resumed • 15: SS_SLAVE_DS_ADDED • 16: SS_SLAVE_DS_DELETED • 17: SS_SLAVE_DS_CONN_LOST • 18: SS_SLAVE_DS_CONN_RESUMED • 19: New device added • 20: Device deleted • 21: Device connection lost • 22: Device connection resumed • 23: recording failed • 24: recording storage removed • 25: recording storage installed • 26: External event 1 • 27: External event 2 • 28: External event 3 • 29: External event 4 • 30: External event 5 • 31: External event 6 • 32: External event 7 • 33: External event 8 • 34: External event 9 • 35: External event 10 • 36: Snapshot archive limit reached • 37: Door connection lost • 38: Door connection resumed • 39: Access granted • 40: Access denied • 41: Door alarm triggered • 42: Door tampering detected • 43: Controller alarm logged • 44: Controller case opened • 45: Fan failed • 46: VisualStation overheating	
schedule	Array of <integer>	Actually a 7*48 integer array to indicate on/off on each half hour in a week	4 and onward

Example:

```
{
list:[{
"eventType": 37,
"schedule":
```

```
[1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1
,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1
,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1]
        }
    ]
}
```

2.3.29.2 GetCameraAlarmSchedule method

Get schedule of camera alarm

Request

Parameter	Value	Description	Availability
cameraId	<integer>	Id of the selected camera	4 and onward
alarmIdx	<integer>	Index of the alarm	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
alarmIdx=1&api="SYNO.SurveillanceStation.Notification.Schedule"&version="1"&cameraId=97&method="
GetCameraAlarmSchedule"
```

Response

Key	Value	Description	Availability
list	Array of <EventSch Object>	List of event scheduling	4 and onward

Example:

```
{
list:[{
"eventType": 10,
"schedule":
[1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1
,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1
,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1]
        }
    ]
}
```

2.3.29.3 GetSystemDEpendentSchedule method

Get schedule of system dependent events

Request

Parameter	Value	Description	Availability
eventGroupTypes	0 … 6	Type of event group to show • 0:NONE • 1:SYSTEM • 2:CAMERA • 3:ACS_CTRL • 4:VS • 5:SERVER • 6:EXT_DEVICE	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
method="GetSystemDependentSchedule"&api="SYNO.SurveillanceStation.Notification.Schedule"&version=
"1"&eventGroupTypes=4
```

Response

Key	Value	Description	Availability
list	Array of <EventSchGrp Object>	List of event group scheduling	4 and onward

<EventSchGrp Object> definition:

Key	Value	Description	Availability
eventGroupType	1 … 6	Type of event group. • 1: System • 2: Camera • 3: Access Control • 4: VisualStation • 5: Server • 6: External Device	
eventType	0 … 46	Type of event • 0 : Testing email • 1 : Camera added • 2 : Camera deleted • 3 : Camera connection lost • 4 : Camera connection resumed • 5 : Motion detected • 6 : SS_ALARM_TRIGGERRED • 7 : SS_MD_ALARM_TRIG	4 and onward

		• 8 : Audio detected • 9 : Tampering detected • 10: Rotation limit reached • 11: VisualStation added • 12: VisualStation deleted • 13: VisualStation connection lost • 14: VisualStation connection resumed • 15: SS_SLAVE_DS_ADDED • 16: SS_SLAVE_DS_DELETED • 17: SS_SLAVE_DS_CONN_LOST • 18: SS_SLAVE_DS_CONN_RESUMED • 19: New device added • 20: Device deleted • 21: Device connection lost • 22: Device connection resumed • 23: recording failed • 24: recording storage removed • 25: recording storage installed • 26: External event 1 • 27: External event 2 • 28: External event 3 • 29: External event 4 • 30: External event 5 • 31: External event 6 • 32: External event 7 • 33: External event 8 • 34: External event 9 • 35: External event 10 • 36: Snapshot archive limit reached • 37: Door connection lost • 38: Door connection resumed • 39: Access granted • 40: Access denied • 41: Door alarm triggered • 42: Door tampering detected • 43: Controller alarm logged • 44: Controller case opened • 45: Fan failed • 46: VisualStation overheating	
schedule	Array of <integer>	Actually a 7*48 integer array to indicate on/off on each half hour in a week	4 and onward

Example:

```
{
list:[{
“eventGroupType”: 4,
"eventType": 37,
"schedule":
[1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1
,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1
,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1]
        }
    ]
}
```

2.3.29.4 SetBatchSchedule method

Batch set schedule. Group id, camera id are required if needed

Request

Parameter	Value	Description	Availability
eventTypes	<string>	Type of events	4 and onward
schedule	Array of <Sch Object>	The specified schedule. Actually a 7 * 48 array of "schedule" object	4 and onward
cameraIds	<string>	Id of specified cameras	4 and onward
cameraGroupIds	<string>	Id of specified camera groups	4 and onward
filter	<integer>	Number of filter	4 and onward

<Sch Object> definition:

Key	Value	Description	Availability
schedule	<string>	An integer indicate the schedule type of each half hour	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?version="1"&schedule=[{"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "0"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule":
"1"}]&cameraIds=""&filter=0&api="SYNO.SurveillanceStation.Notification.Schedule"&cameraGroupIds="1"
&eventTypes="23,3"&method="SetBatchSchedule"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.29.5 GetAccessControlDoorSchedule method

Get schedule of access control door

Request

Parameter	Value	Description	Availability
doorId	<integer>	Id of the specified door	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
doorId=1&api="SYNO.SurveillanceStation.Notification.Schedule"&version="1"&method="GetAccessControl
DoorSchedule"
```

Response

Key	Value	Description	Availability
list	Array of <EventSch Object>	List of event scheduling	4 and onward

Example:

```
{
list:[{
"eventType": 37,
"schedule":
[1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1
,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1
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1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1]
        }
    ]
}
```

2.3.29.6 GetCameraSchedule method

Get schedule of camera

Request

Parameter	Value	Description	Availability
CameraId	<integer>	Id of the specified camera	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Notification.Schedule"&version="1"&cameraId=97&method="GetCameraSc
```

```
hedule"
```

Response

Key	Value	Description	Availability
list	Array of <EventSch Object>	List of event scheduling	4 and onward

Example:

```
{
list:[{
"eventType": 3,
"schedule":
[1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
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        }
    ]
}
```

2.3.29.7 SetSystemDependentSchedule method

Set schedule of system dependent events

Request

Parameter	Value	Description	Availability
eventType	<integer>	Type of event	4 and onward
schedule	Array of <Sch Object>	The specified schedule. Actually a 7 * 48 array of "schedule" object	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
eventType=14&method="SetSystemDependentSchedule"&api="SYNO.SurveillanceStation.Notification.Sche
dule"&version="1"&schedule=[{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
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{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}]
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.29.8 SetAccessControlSchedule method

Set schedule of access control

Request

Parameter	Value	Description	Availability
eventType	<integer>	Type of event	4 and onward
schedule	Array of <Sch Object>	The specified schedule. Actually a 7 * 48 array of "schedule" object	4 and onward
doorId	integer	Id of the specified door	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?version="1"&schedule=[{"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
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{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
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{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "0"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule":
"1"}]&eventType=38&api="SYNO.SurveillanceStation.Notification.Schedule"&doorId=1&method="SetAcces
sControlSchedule"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.29.9 SetCameraSchedule method

Set schedule of camera

Request

Parameter	Value	Description	Availability
eventType	<integer>	Type of event	4 and onward
schedule	Array of <Sch Object>	The specified schedule. Actually a 7 * 48 array of "schedule" object	4 and onward
cameraId	integer	Id of specified camera	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?version="1"&schedule=[{"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
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{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "0"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule":
"1"}]&eventType=4&cameraId=97&api="SYNO.SurveillanceStation.Notification.Schedule"&method="SetCa
meraSchedule"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.29.10 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.
402	Camera disabled.
403	Insufficient license.
404	Codec acitvation failed

2.3.30 SYNO.SurveillanceStation.Notification.Email

This API provides a method to acquire information of email notification in Surveillance Station. (Ex: get/set setting, send test email)

API Name	Version	Availability
SYNO.SurveillanceStation.Notification.Email	1	Surveillance Station 7.0

Method Name	Section	Availability
GetSetting	2.3.30.1	1 and onward
SendTestMail	2.3.30.2	1 and onward
SetSetting	2.3.30.3	1 and onward

2.3.30.1 GetSetting method

Get the setting of email notification.

Request

No parameter is required.

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Notification.Email"&version="1"&method="GetSetting"
```

Response

Key	Value	Description	Availability
attachSnapshot	<boolean>	Attach snapshot of event or not.	1 and onward
auth	<boolean>	Need authority or not.	1 and onward
authPassword	<string>	Password.	1 and onward
authUserName	<string>	User name.	1 and onward
enableInterval	<boolean>	Enable the limitation of email interval or not.	1 and onward
hasSysMail	<boolean>	Has no Sysmail.	1 and onward
mailEnable	<boolean>	Enable the email notification service or not.	1 and onward
mailMethod	<integer>	Method of mail. • 0: no notifications • 1: Use system-wide notification setting • 2: Use setting specific to SS	1 and onward
msgInterval	<integer>	Interval for sending email.	1 and onward

primaryEmail	<string>	Primary email.	1 and onward
secondaryEmail	<string>	Secondary email.	1 and onward
senderMail	<string>	Sender of notification email.	1 and onward
senderName	<string>	Name of the sender in email.	1 and onward
smtpServer	<string>	SMTP server.	1 and onward
smtpServerPort	<integer>	Port of smtp server.	1 and onward
ssl	<boolean>	SSL connection or not.	1 and onward
subjectPrefix	<string>	Prefix of subject.	1 and onward

Example:

```
{
  "attachSnapshot": true,
  "primaryEmail": "bismarckh@synology.com",
  "enableInterval": false,
  "smtpServerPort": 465,
  "subjectPrefix": "Hi",
  "senderMail": "bismarckh@synology.com",
  "auth": true,
  "msgInterval": 1,
  "mailMethod": 2,
  "ssl": true,
  "authUserName": "syno.bismarckh@gmail.com",
  "hasSysMail": false,
  "secondaryEmail": "syno.bismarckh@gmail.com",
  "mailEnable": true,
  "smtpServer": "smtp.gmail.com",
  "senderName": "",
  "authPassword": "********"
}
```

2.3.30.2 SendTestMail method

Send the test email of email notification.

Request

No parameter is required.

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Notification.Email"&version="1"&method="SendTestMail"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.30.3 SetSetting method

Set the setting of email notification.

Request

Parameter	Value	Description	Availability
attachSnapshot	<boolean>	*Optional*. Attach snapshot of event or not. If not specified, the default value will be true.	1 and onward
auth	<boolean>	*Optional*. Need authority or not. If not specified, the default value will be false.	1 and onward
authPassword	<string>	*Optional*. Password.	1 and onward
authUserName	<string>	*Optional*. User name.	1 and onward
enableInterval	<boolean>	*Optional*. Enable the limitation of email interval or not. If not specified, the default value will be false.	1 and onward
hasSysMail	<boolean>	*Optional*. Has no Sysmail.	1 and onward
mailEnable	<boolean>	*Optional*. Enable the email notification service or not. If not specified, the default value will be false.	1 and onward
mailMethod	<integer>	*Optional*. Method of mail. • 0: no notifications • 1: Use system-wide notification setting • 2: Use setting specific to SS If not specified, the default value will be 0.	1 and onward
msgInterval	<integer>	*Optional*. Interval for sending email. If not specified, the default value will be 1.	1 and onward
primaryEmail	<string>	*Optional*. Primary email.	1 and onward
secondaryEmail	<string>	*Optional*. Secondary email.	1 and onward
senderMail	<string>	*Optional*. Sender of notification email.	1 and onward

senderName	<string>	*Optional*. Name of the sender in email.	1 and onward
smtpServer	<string>	*Optional*. SMTP server.	1 and onward
smtpServerPort	<integer>	*Optional*. Port of smtp server. If not specified, the default value will be 0.	1 and onward
ssl	<boolean>	*Optional*. SSL connection or not. If not specified, the default value will be false.	1 and onward
subjectPrefix	<string>	*Optional*. Prefix of subject.	1 and onward
smtpServerProvider	<string>	*Optional*. Provider of SMTP server.	1 and onward
mail_recipient	<string>	*Optional*. Recipient of notification mail.	1 and onward

Example:

```
GET /webapi/entry.cgi?
subjectPrefix="Hi"&smtpServerProvider="CUSTOM"&version="1"&attachSnapshot=true&senderMail="bis
marckh@synology.com"&auth=true&mailMethod=2&ssl=true&authUserName="syno.bismarckh@gmail.co
m"&mail_recipient="bismarckh@synology.com;syno.bismarckh@gmail.com"&hasSysMail=false&senderNa
me="1"&authPassword="********"&mailEnable=true&primaryEmail="bismarckh@synology.com"&enable
Interval=false&msgInterval=1&api="SYNO.SurveillanceStation.Notification.Email"&secondaryEmail="syno.b
ismarckh@gmail.com"&smtpServerPort=465&smtpServer="smtp.gmail.com"&method="SetSetting"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.30.4 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.

2.3.31 SYNO.SurveillanceStation.Notification.Filter

This API provides a method to acquire information of notification filter in Surveillance Station. (Ex: get/set the setting of nofitication filter)

API Name	Version	Availability
SYNO.SurveillanceStation.Notification.Filter	1	Surveillance Station 7.0

Method Name	Section	Availability
Set	2.3.31.1	1 and onward
Get	2.3.31.2	1 and onward

2.3.31.1 Set method

Set information of filter in advance tab.

Request

Parameter	Value	Description	Availability
X	<integer>	*Optional*. X is a number equivalent to a event type and the value means the setting of filter. • [value]: refer to "filter" in filter_element • [X]: refer to "eventType" in filter_element If not specified, the default value will be false.	1 and onward

Example:

```
GET /webapi/entry.cgi?
X=1&api="SYNO.SurveillanceStation.Notification.Filter"&version="1"&method="Set"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.31.2 Get method

Get information of filter in advance tab.

Request

No parameter is required.

Example:

```
GET /webapi/entry.cgi?api="SYNO.SurveillanceStation.Notification.Filter"&version="1"&method="Get"
```

Response

Key	Value	Description	Availability
list	Array of <filter_element>	List of filter element.	1 and onward

<filter_element> definition:

Key	Value	Description	Availability
eventGroupType	<integer>	Type of event group. • 1: System • 2: Camera • 3: Access Control • 4: VisualStation • 5: Server • 6: External Device	1 and onward
eventType	<integer>	Type of event. • 0 : Testing email • 1 : Camera added • 2 : Camera deleted • 3 : Camera connection lost • 4 : Camera connection resumed • 5 : Motion detected • 6 : SS_ALARM_TRIGGERRED • 7 : SS_MD_ALARM_TRIG • 8 : Audio detected • 9 : Tampering detected • 10: Rotation limit reached • 11: VisualStation added • 12: VisualStation deleted • 13: VisualStation connection lost • 14: VisualStation connection resumed • 15: SS_SLAVE_DS_ADDED • 16: SS_SLAVE_DS_DELETED • 17: SS_SLAVE_DS_CONN_LOST • 18: SS_SLAVE_DS_CONN_RESUMED • 19: New device added • 20: Device deleted	1 and onward

		• 21: Device connection lost • 22: Device connection resumed • 23: recording failed • 24: recording storage removed • 25: recording storage installed • 26: External event 1 • 27: External event 2 • 28: External event 3 • 29: External event 4 • 30: External event 5 • 31: External event 6 • 32: External event 7 • 33: External event 8 • 34: External event 9 • 35: External event 10 • 36: Snapshot archive limit reached • 37: Door connection lost • 38: Door connection resumed • 39: Access granted • 40: Access denied • 41: Door alarm triggered • 42: Door tampering detected • 43: Controller alarm logged • 44: Controller case opened • 45: Fan failed • 46: VisualStation overheating	
filter	<integer>	Setting of filter. • 1: Email • 2: SMS • 4: Mobile • 7: Email+SMS+Mobile	1 and onward

Example:

```
{
    "list": [
        {
            "filter": 1,
            "eventType": 3,
            "eventGroupType": 2
        },
        {
            "filter": 1,
            "eventType": 4,
            "eventGroupType": 2
        },
        …
    ]
}
```

2.3.31.3 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.

2.3.32 SYNO.SurveillanceStation.Notification.SMS.ServiceProvider

This API provides a method to acquire information of SMS service provider in Surveillance Station. (Ex: get/set/create/delete the setting of SMS service provider)

API Name	Version	Availability
SYNO.SurveillanceStation.Notification.SMS.ServiceProvider	1	Surveillance Station 7.0

Method Name	Section	Availability
Create	2.3.32.1	1 and onward
Set	2.3.32.2	1 and onward
List	2.3.32.3	1 and onward
Delete	2.3.32.4	1 and onward

2.3.32.1 Create method

Create SMS service provider.

Request

Parameter	Value	Description	Availability
providerName	<string>	*Optional*. Name of SMS provider.	1 and onward
providerPort	<integer>	*Optional*. Port of SMS provider. If not specified, the default value will be 0.	1 and onward
providerUrl	<string>	*Optional*. URL of SMS provider.	1 and onward
providerTemplate	<string>	*Optional*. Template of SMS provider field.	1 and onward
providerSepChar	<string>	*Optional*. The substitution of blank space in URL.	1 and onward
providerNeedSSL	<boolean>	*Optional*. Is SMS provider need SSL or not. If not specified, the default value will be false.	1 and onward

Example:

```
GET /webapi/entry.cgi?
providerNeedSSL=false&providerTemplate="https://api.clickatell.com/http/sendmsg?
user=@@USER@@&password=@@PASS@@&api_id=3148203&to=@@PHONE@@&text=@@TEXT@@"
&api="SYNO.SurveillanceStation.Notification.SMS.ServiceProvider"&providerPort=554&providerName="Pr
ovider"&providerUrl="https://api.clickatell.com/http/sendmsg?
user=TestUser&password=TestPassword&api_id=3148203&to=886123456789&text=Hello+world"&provid
erSepChar="+"&version="1"&method="Create"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.32.2 Set method

Set SMS service provider

Request

Parameter	Value	Description	Availability
providerName	<string>	*Optional*. Name of SMS provider.	1 and onward
providerPort	<integer>	*Optional*. Port of SMS provider. If not specified, the default value will be 0.	1 and onward
providerUrl	<string>	*Optional*. URL of SMS provider.	1 and onward
providerTemplate	<string>	*Optional*. Template of SMS provider field.	1 and onward
providerSepChar	<string>	*Optional*. The substitution of blank space in URL.	1 and onward
providerNeedSSL	<boolean>	*Optional*. Is SMS provider need SSL or not. If not specified, the default value will be false.	1 and onward
providerOldName	<string>	Is SMS provider need SSL or not.	1 and onward

Example:

```
GET /webapi/entry.cgi?
providerNeedSSL=false&providerTemplate="https://api.clickatell.com/http/sendmsg?
user=@@USER@@&password=@@PASS@@&api_id=3148203&to=@@PHONE@@&text=@@TEXT@@"
&providerOldName="ProviderOld"&providerPort=554&providerName="Provider"&api="SYNO.Surveillance
Station.Notification.SMS.ServiceProvider"&providerUrl="https://api.clickatell.com/http/sendmsg?
user=TestUser&password=TestPassword&api_id=3148203&to=886123456789&text=Hello+world"&provid
erSepChar="+"&version="1"&method="Set"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.32.3 List method

List SMS service provider

Request

No parameter is required.

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Notification.SMS.ServiceProvider"&version="1"&method="List"
```

Response

Key	Value	Description	Availability
list	Array of <provider_info>	Information of provider.	1 and onward

<provider_info> definition:

Key	Value	Description	Availability
fullUrl	<string>	Full URL of SMS provider.	1 and onward
id	<integer>	Id of SMS provider.	1 and onward
name	<string>	Name of SMS provider.	1 and onward
template	<string>	Template URL of SMS provider.	1 and onward

Example:

```
{
  "list": [
    {
      "template": "https://api.clickatell.com/http/sendmsg?
user=@@USER@@&password=@@PASS@@&api_id=3148203&to=@@PHONE@@&text=@@TEXT@@",
      "fullUrl": "http://api.clickatell.com/http/sendmsg?
user=Syno&password=1234&api_id=3148203&to=886&text=Hello+world",
      "name": "clickatell",
      "id": 1
    }
  ]
}
```

2.3.32.4 Delete method

Delete SMS service provider.

Request

Parameter	Value	Description	Availability
providerName	<string>	*Optional.*	1 and onward

		Name of SMS provider.	

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Notification.SMS.ServiceProvider"&version="1"&providerName="Provider"
&method="Delete"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.32.5 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.

2.3.33 SYNO.SurveillanceStation.Addons

This API provides method to get Addons service information.

API Name	Version	Availability
SYNO.SurveillanceStation.Addons	1	DSM 5.1-1594

Method Name	Section	Availability
GetUpdateInfo	2.3.1.1	1 and onward
Enable	2.3.33.2	1 and onward
CheckUpdateInfo	2.3.33.3	1 and onward
GetInfo	2.3.33.4	1 and onward
List	2.3.33.5	1 and onward
Update	2.3.33.6	1 and onward
CheckEnableDone	2.3.33.7	1 and onward
Disable	2.3.33.8	1 and onward
SetAutoUpdate	2.3.33.9	1 and onward

2.3.33.1 GetUpdateInfo method

Get number of addon services which needs to update.

Request

No parameter is required.

Example:

Get number of addon services which needs to update.

```
GET /webapi/entry.cgi?api="SYNO.SurveillanceStation.AddOns"&version="1"&method="GetUpdateInfo"
```

Response

Key	Value	Description	Availability
newUpdateCnt	<integer>	number of addon services which needs to update.	1 and onward

Example:

```
{
"data": {
        "newUpdateCnt": 1
},
"success": true
}
```

2.3.33.2 Enable method

Enable specific addon service.

Request

Parameter	Value	Description	Availability
service	<integer>	Addon Service type of SurveillanceStation. 0: Undefined 1: SERVICE_DEVICE_PACK. 2: SERVICE_CMS 3: SERVICE_VS 4: SERVICE_JOYSTICK 5: SERVICE_ACSCTRL	1 and onward
servicename	<string>	*Optional*. Addon service Name.	1 and onward

Example:

Make speficic addon Service enable.

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.AddOns"&serviceName="Joystick"&version="1"&service=4&method="Enabl
e"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.33.3 CheckUpdateInfo method

Check specific addon service update information. At present, only SERVICE_DEVICE_PACK supported.

Request

Parameter	Value	Description	Availability
service	<integer>	Addon Service type of SurveillanceStation. 0: Undefined 1: SERVICE_DEVICE_PACK. 2: SERVICE_CMS 3: SERVICE_VS 4: SERVICE_JOYSTICK 5: SERVICE_ACSCTRL	1 and onward

Example:

Check Device_Pack service whether it needs to update or not.

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.AddOns"&version="1"&service=1&method="CheckUpdateInfo"
```

Response

Key	Value	Description	Availability
Status	<integer>	number of addon services which needs to update.Status of Addon Service. 0: Undefined. 1: No new update. 2: New update avaliable. 3: It is Ready to upgrade. 4: Downloading the service. 5: Download error. 6: Upgrading. 7: Error.	1 and onward

Example:

```
{
"data" : {
    "status": 1
},
"success": true
}
```

2.3.33.4 GetInfo method

Get specific Addon information by sending service id.

Request

Parameter	Value	Description	Availability
service	<integer>	Addon Service type of SurveillanceStation. 0: Undefined 1: SERVICE_DEVICE_PACK. 2: SERVICE_CMS 3: SERVICE_VS 4: SERVICE_JOYSTICK 5: SERVICE_ACSCTRL	1 and onward

Example:

Get Joystick service information.

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.AddOns"&version="1"&service=3&method="GetInfo"
```

Response

Name	Value	Description	Availability
Info	<Info Object>	Info Object to represent Information of requested service.	1 and onward
blEnabled	<boolean>	Requested service is enabled or not.	1 and onward
modelName	<string>	Name of DS.	1 and onward
autoUpdate	<boolean>	This package can be auto updated or not.	1 and onward

<Info Object> definition

Name	Value	Description	Availability
date	<string>	Release date of service.	1 and onward
maintainer	<string>	Maintainer of this service.	1 and onward
ssMinVersion	<string>	Minimum SurveillanceStation version is supported.	1 and onward
Version	<string>	Version of service.	1 and onward

Example:

```
{
"data" : {
   "Info": {
      "date": "2015/02/02-15:11:53",
      "version": "3.1-0582",
      "maintainer": "Synology Inc.",
      "ssMinVersion": "7.0-3728"
    },
    "blEnabled": true,
    "modelName": "DS713+",
    "autoUpdate": false
},
"success": true
}
```

2.3.33.5 List method

Get total addOns package information List.

Request

No parameter is required.

Example:

Get total addOns package information List.

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.AddOns"&version="1"&method="List"
```

Response

Key	Value	Description	Availability
list	Array of <packageInfo Object>	Information of requested service.	1 and onward

<packageInfo Object> definition

Name	Value	Description	Availability
info	<serviceInfo Object>	Information of this service.	1 and onward
service	<integer>	Addon Service type of SurveillanceStation. 0: Undefined 1: SERVICE_DEVICE_PACK. 2: SERVICE_CMS 3: SERVICE_VS 4: SERVICE_JOYSTICK 5: SERVICE_ACSCTRL	1 and onward

<serviceInfo Object> definition

Name	Value	Description	Availability
info	<Info Object>	Information of this service.	1 and onward
blEnabled	<boolean>	This service is enabled or not.	1 and onward
modelName	<string>	Name of DS.	1 and onward
autoUpdate	<boolean>	This service is support autoupdated or not.	1 and onward

Example:

```
{
"data": {
  "list": [
  {
    "info": {
      "Info": {
        "date": "2015/02/02-15:11:53",
        "version": "3.1-0582",
        "maintainer": "Synology Inc.",
        "ssMinVersion": "7.0-3728"
      }
      blEnabled": true,
      "modelName": "DS713+",
      "autoUpdate": false
    },
    "service": 1
  },
  {
    "info": {
      "Info": {
        "date": "",
        "version": "",
        "maintainer": "",
        "ssMinVersion": ""
      },
      "blEnabled": true,
      "modelName": "DS713+"
    },
      "service": 2
   },
   {
      "info": {
         "Info": {
            "date": "",
            "version": "",
            "maintainer": "",
            "ssMinVersion": ""
         },
         "blEnabled": true,
         "modelName": "DS713+"
      },
      "service": 3
   },
   {
       "info": {
          "Info":  {
             "date":"",
             "maintainer":"",
             "ssMinVersion":"",
             "version":""
          },
          "blEnabled":true,
          "modelName":"DS713+"
       },
       "service":4
   },
   {
       "info": {
          "Info": {
             "date":"",
             "maintainer":"",
             "ssMinVersion":"",
             "version":""
          },
          "blEnabled":true,
           "modelName":"DS713+"
        },
        "service":5
   }]
},
"success": true
}
```

2.3.33.6 Update method

Update package by service type of package file.

Request

Parameter	Value	Description	Availability
service	<integer>	Addon Service type of SurveillanceStation. 0: Undefined 1: SERVICE_DEVICE_PACK. 2: SERVICE_CMS 3: SERVICE_VS 4: SERVICE_JOYSTICK 5: SERVICE_ACSCTRL	1 and onward
filePath	<string>	*Optional*. Path of package file. If the package is installed manually, then the path is needed.	1 and onward

Example:

Get total addOns package information List.

```
http://192.168.1.1:5000/webapi/entry.cgi?
method="Update"&api="SYNO.SurveillanceStation.AddOns"&version="1"&service=1&filePath="/path/to/p
ackagefile"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.33.7 CheckEnableDone Method

Check specific addon service is successfully enabled or disabled.

Request

Parameter	Value	Description	Availability
service	<integer>	Addon Service type of SurveillanceStation. 0: Undefined 1: SERVICE_DEVICE_PACK. 2: SERVICE_CMS 3: SERVICE_VS 4: SERVICE_JOYSTICK 5: SERVICE_ACSCTRL	1 and onward

Example:

Check Joystick service is successfully enabled or disabled.

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.AddOns"&version="1"&service=4&method="CheckEnableDone"
```

Response

Parameter	Value	Description	Availability
blDone	<boolean>	Service is successfully enabled or disabled.	1 and onward

Example:

Get total addOns package information List.

```
{
"data" : {
    "blDone": true
},
"success": true
}
```

2.3.33.8 Disable Method

Disable specific addon service.

Request

Parameter	Value	Description	Availability
service	<integer>	Addon Service type of SurveillanceStation. 0: Undefined 1: SERVICE_DEVICE_PACK. 2: SERVICE_CMS 3: SERVICE_VS 4: SERVICE_JOYSTICK 5: SERVICE_ACSCTRL	1 and onward
serviceName	<string>	*Optional*. Addon service Name.	1 and onward

Example:

Check Joystick service is successfully enabled or disabled.

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.AddOns"&serviceName="Joystick"&version="1"&service=4&method="Disab
le"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.33.9 SetAutoUpdate Method

Set AutoUpdate functionality of addon service. At present, only SERVICE_DEVICE_PACK supported.

Request

Parameter	Value	Description	Availability
service	<integer>	Addon Service type of SurveillanceStation. 0: Undefined 1: SERVICE_DEVICE_PACK. 2: SERVICE_CMS 3: SERVICE_VS 4: SERVICE_JOYSTICK 5: SERVICE_ACSCTRL	1 and onward
BlEnabled	<true>	this service is enabled autoUpdate functionality or not.	1 and onward

Example:

Check Joystick service is successfully enabled or disabled.

```
http://192.168.1.1:5000/webapi/entry.cgi?
blEnabled=true&api="SYNO.SurveillanceStation.AddOns"&version="1"&service=1&method="SetAutoUpdat
e"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.33.10 API Error Code

Code	Description
400	Execution failed.

2.3.34 SYNO.SurveillanceStation.Analytics

This API provides several methods to access analytics event information of Surveillance Station. (Ex: Count event number, List the information of event, Lock/Unlock event, Delete event, Trigger event)

API Name	Version	Availability
SYNO.SurveillanceStation.Analytics	1	DSM 4.0-2198

Method Name	Section	Availability
RecServerClear	2.3.2.1	1 and onward
EventCount	2.3.2.2	1 and onward
ClearSelected	2.3.34.3	1 and onward
Clear	2.3.34.4	1 and onward
Enum	2.3.34.5	1 and onward
RecServerEnum	2.3.34.6	1 and onward
Unlock	2.3.34.7	1 and onward
Trigger	2.3.34.8	1 and onward
EventFlushHeader	2.3.34.9	1 and onward
Lock	2.3.34.10	1 and onward
RecServerEventCount	2.3.34.11	1 and onward

2.3.34.1 RecServerClear method

Delete specific camera's all events in recording server.

Request

Parameter	Value	Description	Availability
camIdList	<string>	The deleted camera ID list.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Analytics"&camIdList="5,7"&version="1"&method="RecServerClear"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.34.2 EventCount method

Get cameras' analytics event count.

Request

Parameter	Value	Description	Availability
camIdList	<string>	The deleted camera ID list.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Analytics"&camIdList="3,7,12"&version="1"&method="EventCount"
```

Response

Key	Value	Description	Availability
eventCount	Array of <eventCount Object>	Cameras' event count info.	1 and onward

<eventCount Object**>** definition

Name	Value	Description	Availability
dsId	<integer>	Events' owner dsId.	1 and onward
id	<integer>	Unique analytics event id.	1 and onward
archived	<boolean>	Point out that this is archived or not.	1 and onward

Example:

```
{
"data": {
   "eventCount": [
   {
      "eventCnt": 10,
      "dsId": 0,
      "cameraId": 3
   },
   {
      "eventCnt": 0,
      "dsId": 0,
      "cameraId": 7
   },
   {
      "eventCnt": 3,
      "dsId": 6,
      "cameraId": 2
   }]
},
"success": true
}
```

2.3.34.3 ClearSelected method

Delete selected events.

Request

Parameter	Value	Description	Availability
dsIdList	<string>	Event ds id lists.	1 and onward
idList	<string>	Ds ID with Unique event ID. "DS_ID : EVENT_ID"	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
dsIdList="0,6"&api="SYNO.SurveillanceStation.Analytics"&idList="{\"0\":\"14,35\",\"6\":\"278\"}"&version
="1"&method="ClearSelected"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.34.4 Clear

Delete specific camera's all events

Request

Parameter	Value	Description	Availability
camIdList	<string>	The deleted camera ID list.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Analytics"&camIdList="3,7,12"&version="1"&method="EventCount"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.34.5 Enum method

Enumerate analytics history event list by specific filter conditions.

Request

Parameter	Value	Description	Availability
camIdList	<string>	The deleted camera ID list.	1 and onward
typeListstring	<string>	*Optional*. Archive status. 0: EL_UNKNOWN 1: EL_NONLOCK 2: EL_LOCK	1 and onward
typeListstring	<string>	*Optional*. Analytics type of event. 0: ANALYTICS_TYPE_NONE 1: ANALYTICS_TYPE_MOTION 2: ANALYTICS_TYPE_MISSING_OBJ 3: ANALYTICS_TYPE_FOREIGN_OBJ 4: ANALYTICS_TYPE_CAM_OCCLUSION 5: ANALYTICS_TYPE_FOCUS_LOST 6: ANALYTICS_TYPE_LOITERING 7: ANALYTICS_TYPE_OBJ_COUNTING 8: ANALYTICS_TYPE_VIRTUAL_FENCE	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
camIdList="1,3,11"&api="SYNO.SurveillanceStation.Analytics"&typeList="1,2,7"&lock=0&version="1"&met
hod="Enum"
```

Response

Key	Value	Description	Availability
history	<history Object>	The selected cameras' analytics events.	1 and onward
total	<integer>	Total count of selected events.	1 and onward

<history Object> definition

Name	Value	Description	Availability
Id	<integer>	Unique analytics event id.	1 and onward
name	<string>	Path of event.	1 and onward
Reason	<integer>	Analytics type of event. 0: ANALYTICS_TYPE_NONE 1: ANALYTICS_TYPE_MOTION 2: ANALYTICS_TYPE_MISSING_OBJ 3: ANALYTICS_TYPE_FOREIGN_OBJ	1 and onward

		4: ANALYTICS_TYPE_CAM_OCCLUSION 5: ANALYTICS_TYPE_FOCUS_LOST 6: ANALYTICS_TYPE_LOITERING 7: ANALYTICS_TYPE_OBJ_COUNTING 8: ANALYTICS_TYPE_VIRTUAL_FENCE	
startTime	<integer>	Start time of event.	1 and onward
stopTime	<integer>	Stop time of event.	1 and onward
archived	<boolean>	Point out that this is archived or not.	1 and onward
frameCount	<integer>	Frame count of event.	1 and onward
video_type	<integer>	Video type of Event.	1 and onward
recording	<boolean>	Point out that this is recording or not.	1 and onward
is_complete	<boolean>	Point out that this has finished recording or not.	1 and onward
eventSize	<float>	Size of event in MB.	1 and onward
audio_format	<string>	Audio format of event.	1 and onward
closing	<boolean>	Point out that this is closing or not.	1 and onward
fisheye_type	<integer>	Type of fisheye region. -1: FISHEYE_NOT_REGION 0: FISHEYE_REGION 1: FISHEYE_PANORAMA 2: FISHEYE_DOUBLE_PANORAMA 3: FISHEYE_TRIPLE_VIEW 4: FISHEYE_QUAD_VIEW 5: FISHEYE_SUB_REGION 6: FISHEYE_SUB_PANORAMA	1 and onward
fisheye_origin_view	<boolean>	Point out that this is fisheye origin view or not.	1 and onward
snapshot_medium	<string>	Snapshot of event.	1 and onward
mountId	<integer>	Mount id of event. (always be 0 in analytics event)	1 and onward
dsId	<integer>	Event's owner dsId.	1 and onward
cameraId	<integer>	Unique camera id. (id on recording server)	1 and onward
camera_name	<string>	Camera name.	1 and onward
volume	<integer>	Camera volume.	1 and onward
mute	<boolean>	Point out that the camera is mute or not.	1 and onward
imageEnhancement	<imageEnhancement Object>	Camera's image enhancement info.	1 and onward

<imageEnhancement Object> definition

Key	Value	Description	Availability
brightness	<integer>	Camera's brightness parameter of image enhancement.	1 and onward
contrast	<integer>	Camera's contrast parameter of image enhancement.	1 and onward
saturation	<integer>	Camera's saturation parameter of image enhancement.	1 and onward
sharpness	<integer>	Camera's sharpness parameter of image enhancement.	1 and onward

Example:

```
{
"data": {
  "total": 1,
  "history": {
    "mute": false,
    "fisheye_type": 0,
    "id": 278,
    "frameCount": 175,
    "archived": true,
    "cameraId": 3,
    "mountId": 0,
    "stopTime": 1421985306,
    "audio_format": "MPEG4-GENERIC",
    "fisheye_origin_view": true,
    "video_type": 3,
    "volume": 0,
    "reason": 1,
    "startTime": 1421985287,
    "eventSize": 6.570010185241699,
    "dsId": 0,
    "snapshot_medium":
"/9j/4AAQSkZJRgABAQAAAQABAAD/2wBDAAYEBQYFBAYGBQYHBwYIChAKCgkJChQODwwQFxQYGBcUFhYa
HSUfGhsjHBYWICwgIyYnKSopGR8tMC0oMCUoKSj/2wBDAQcHBwoIChMKChMoGhYaKCgoKCgoKCgoKCgoKC
goKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCj/wAARCABaAHgDASIAAhEBAxEB/8QAHwAAA
QUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUE
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NQy/DDU4kLPf2AUd8t/8AE16xf6qkeVixI/t0H+NYc80ty+6VifbsKpYSAfW6p5nL4FvUbC3dq/uN3+FMHge+P/L
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+EEvtuftVrn0+b/CmHwPfj/l5tvzb/CvTfLOKa0dH1SmP63UPNP+EHvv+fm2/Nv8KQ+CL4f8vFt+bf4V6Ts56U0x5
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+APxrsdP06xsNhk/wBNuiAwRfuA9wf84qZTUQ5WzWzKs9NuZoXlSI+Wg3FjwPwMU+BAfrXTTRXF1Gkl3MmN
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+XTIg5x/rJs/og5/MiuYvfGOoam7C6uHdc/cY4UD2UcfzNEpxehUaE3qfa+g3dleW7CzmSdUwCycrn69DXmfxl8Z
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oIbjvnrXiPji4mku7VZJpHVkKsGYnIB4B9hXDiG1JJHVQtJM87vYWtrxotwfaxXcOjDPUVNZHdPhu7DNQTktcMW
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aktY45Jgsqyv6JH1Y+maWWokZlYlSQcdQa2lscSNSfhfs74jU9LW1GWY/7Tf/rqhdnbG0XyxA9Le3+Zj/vN/n6Vfl/
deHg8fyO0mGZeCR6GqF2BHo0RQbS7EMRxu+vrWBre5zM64J4op83eitiT/9k=",
      "imageEnhancement": {
         "saturation": 0,
         "sharpness": 0,
         "contrast": 0,
         "brightness": 0
      },
      "name": "laRec/20150123AM/Q603520150123-115447-1421985287.mp4",
      "camera_name": "Q6035-Rec---",
      "recording": false,
      "closing": false,
      "is_complete": true
   }
},
"success": true
}
```

2.3.34.6 RecServerEnum method

Enumerate analytics history event list by specific filter conditions from host to recording server.

Request

Parameter	Value	Description	Availability
camIdList	<string>	The deleted camera ID list.	1 and onward
dsId	<integer>	server's ds id.	1 and onward
lock	<integer>	*Optional.* Archive status. 0: EL_UNKNOWN 1: EL_NONLOCK 2: EL_LOCK	1 and onward
typeList	<string>	*Optional.* Analytics type of event. 0: ANALYTICS_TYPE_NONE 1: ANALYTICS_TYPE_MOTION 2: ANALYTICS_TYPE_MISSING_OBJ 3: ANALYTICS_TYPE_FOREIGN_OBJ 4: ANALYTICS_TYPE_CAM_OCCLUSION 5: ANALYTICS_TYPE_FOCUS_LOST 6: ANALYTICS_TYPE_LOITERING 7: ANALYTICS_TYPE_OBJ_COUNTING 8: ANALYTICS_TYPE_VIRTUAL_FENCE	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
camIdList="5,8"&api="SYNO.SurveillanceStation.Analytics"&typeList="1,2,7"&lock=0&version="1"&dsId=6
&method="RecServerEnum"
```

Response

Key	Value	Description	Availability
history	<history Object>	The selected cameras' analytics events.	1 and onward

Example:

```
{
"data": {
   "history": {
      "mute": false,
      "fisheye_type": 0,
      "id": 313,
      "frameCount": 175,
      "archived": true,
      "cameraId": 5,
      "mountId": 0,
      "stopTime": 1421985306,
      "audio_format": "MPEG4-GENERIC",
        "fisheye_origin_view": true,
        "video_type": 3,
        "volume": 0,
        "reason": 1,
        "startTime": 1421985287,
        "eventSize": 6.570010185241699,
        "dsId": 6,
        "snapshot_medium":
"/9j/4AAQSkZJRgABAQAAAQABAAD/2wBDAAYEBQYFBAYGBQYHBwYIChAKCgkJChQODwwQFxQYGBcUFhYa
HSUfGhsjHBYWICwgIyYnKSopGR8tMC0oMCUoKSj/2wBDAQcHBwoIChMKChMoGhYaKCgoKCgoKCgoKCgoKC
goKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCj/wAARCABaAHgDASIAAhEBAxEB/8QAHwAAA
QUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUE
GE1FhByJxFDKBkaEII0KxwRVS0fAkM2JyggkKFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZ
WZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ
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CBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJ
ygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkp
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NQy/DDU4kLPf2AUd8t/8AE16xf6qkeVixI/t0H+NYc80ty+6VifbsKpYSAfW6p5nL4FvUbC3dq/uN3+FMHge+P/L
zbfm3+FelCE96URY7VX1SmP63UPN/
+EEvtuftVrn0+b/CmHwPfj/l5tvzb/CvTfLOKa0dH1SmP63UPNP+EHvv+fm2/Nv8KQ+CL4f8vFt+bf4V6Ts56U0x5
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pT7D+szOuswILTcR8xGTVu0XbEuep5NVJ2UKqsQB1b6VXuNUOCtv/AN9VskcW5rXF5Hbrlj83YDrWPc301zlQd
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6465T5icY56CpjJS2Ks0ZrpRU0iZPFFUO4xjNCRLY6GPNXUTpxBHx0q3HHmqM2xI
o+lWkh5qSKPIFXIYcjpzTIuUvI9qGh46VqC3JHTj1oa346UgMcw4UjcCq7x0wuaelaRYRW63OoSea55WBP
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p0Qemhg3X2GySSK3j/+2XBGTjPlMpYqZ583hC8H/AC3t/wAz/hRXeOnFFL6MSnfEMjcGxwzXcFu5JX0
M7VHqo7n8PzrmtYvNP0xmnmnENsT8hk4LH2HU/hShO+5MoW7Czrn69DXmfxl8/DWMJ6ZDCzrn69DXmfxl8Z
z+HWNvaRWs08ygypYnDkUOxqHiD/A5FcUKaWKFA0nXFCpx5XknTGubnKcAkUTXhhCzyV/5WR1AWDmjbwhN
kKTjNyOh2lFQtsWvAvii91FCsqOeNHn4Bde/9RPJ6bBSdDLrjMzPZ0djuoNEx5Ipt/RCbMT6X9Pi8b1M/7tk2M
nOQa7abuYV4cr0M2Uc1UkGc1emFVJFNWYFRapyrya1o7eW4kKoozuMrmyBhz0eZBRE8GumiKYNRMCGTsXhwU
ktC0jnpVoqWZaKCrkulTuDsDlB6g/zrt9OukeMLYQ75T992HAP94D/HNef2fWux0l3jtJWjZLYBKnGR6VjUirxK
3exJ4tuE0rS57vvUZbi4uSwBS2ILoT0b0A7dyM15rqsGr+IoC88UOl6xaFcAw5nf2xkN8OWSyGHgN5Ssjr1
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XvDGZzJvySmOte9+ENR/tPwvYEXBOZBGI3/wB5eD/KvBuSdKfzH9IPSZP/J1Ltr6U0ZmcDBTvgbWyvgZWRQ6zk
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XvDGZzJvySmOte9+ENR/tPwvYXBOZBGI3/wB5eD/KvBl/1f8AwD+or1n4REnwzcgkkC5bHt8q06T94xxa9w9
aktY45Jgsqyv6JH1Y+maWWokZlYlSQcdQa2lscSNSfhfs74jU9LW1GWY/7Tf/rqhdnbG0XyxA9Le3+Zj/vN/n6vFl/
deHg8fyO0mGZeCR6GqF2BHo0RQbS7EMRxu+eitiT/9k=",
        "imageEnhancement": {
          "saturation": 0,
          "sharpness": 0,
          "contrast": 0,
          "brightness": 0
       },
       "name": "laRec/20150123AM/OutDoor-115447-1421985287.mp4",
       "camera_name": "OutDoor",
       "recording": false,
       "closing": false,
       "is_complete": true
   }
},
"success": true
}
```

2.3.34.7 Unlock method

Unlock the selected events.

Request

Parameter	Value	Description	Availability
dsId	<integer>	Events' ds id.	1 and onward
idList	<string>	Event id list	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Analytics"&dsId=6&idList="13,25"&version="1"&method="Unlock"
```

Response

Key	Value	Description	Availability
events	Array of <events Object>	selected events' lock info.	1 and onward

<events Object**>** definition

Key	Value	Description	Availability
dsId	<integer>	Events' owner dsId.	1 and onward
id	<integer>	Unique analytics event id.	1 and onward
archived	<boolean>	Point out that this is archived or not.	1 and onward

Example:

```
{
"data": {
   "events": [
        {
            "archived": false,
            "dsId": 6,
            "id": 13
        },
        {
            "archived": false,
            "dsId": 6,
            "id": 25
        }
    ]
},
"success": true
}
```

2.3.34.8 Trigger method

Set cameras' analytics triggered

Request

Parameter	Value	Description	Availability
trigCamIdList	<string>	The triggered camera ID list.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
trigCamIdList="3,5"&api="SYNO.SurveillanceStation.Analytics"&version="1"&method="Trigger"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.34.9 EventFlushHeader method

Flush event header.

Request

Parameter	Value	Description	Availability
eventId	<integer>	Event ID.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
eventId=157&api="SYNO.SurveillanceStation.Analytics"&version="1"&method="EventFlushHeader"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.34.10 Lock method

Lock the selected events.

Request

Parameter	Value	Description	Availability
dsId	<integer>	Events' ds id.	1 and onward
idList	<string>	Event id list	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Analytics"&dsId=6&idList="13,25"&version="1"&method="Lock"
```

Response

Key	Value	Description	Availability
events	Array of <events Object>	selected events' lock info.	1 and onward

Example:

```
{
"data": {
   "events": [
      {
         "archived": true,
         "dsId": 6,
         "id": 13
      },
      {
         "archived": true,
         "dsId": 6,
         "id": 25
      }
   ]
},
"success": true
}
```

2.3.34.11 RecServerEventCount method

Get cameras' analytics event count in recording server.

Request

Parameter	Value	Description	Availability
camIdList	<string>	Camera ID list.	1 and onward
idList	<integer>	Camera's owner ds ID.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Analytics"&camIdList="10,13"&dsId=6&version="1"&method="RecServerEv
entCount"
```

Response

Key	Value	Description	Availability
eventCount	Array of <eventCount Object>	selected events' lock info.	1 and onward

<eventCount Object> definition

Key	Value	Description	Availability
dsId	<integer>	Events' owner dsId.	1 and onward
cameraId	<integer>	Unique camera id. (id on recording server)	1 and onward
eventCnt	<integer>	Total analytics event count of the specific camera.	1 and onward

Example:

```
{
"data": {
   "eventCount": [
      {
         "eventCnt": 2,
         "dsId": 6,
         "cameraId": 10
      },
      {
         "eventCnt": 0,
         "dsId": 6,
         "cameraId": 13
      }
   ]
},
"success": true
}
```

2.3.34.12 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.
407	CMS closed.

2.3.35 SYNO.SurveillanceStation.Analytics.Setting

This API provides method to get analytics settings

API Name	Version	Availability
SYNO.SurveillanceStation.Analytics.Setting	1	Surveillance Station 6.0-2337

Method Name	Section	Availability
Save	2.3.3.1	1 and onward

2.3.35.1 Save method

Save analytics settings

Request

Parameter	Value	Description	Availability
camId	<integer>	The selected camera id.	1 and onward
type	<integer>	Analytics type. 0: ANALYTICS_TYPE_NONE 1: ANALYTICS_TYPE_MOTION 2: ANALYTICS_TYPE_MISSING_OBJ 3: ANALYTICS_TYPE_FOREIGN_OBJ 4: ANALYTICS_TYPE_CAM_OCCLUSION 5: ANALYTICS_TYPE_FOCUS_LOST 6: ANALYTICS_TYPE_LOITERING 7: ANALYTICS_TYPE_OBJ_COUNTING 8: ANALYTICS_TYPE_VIRTUAL_FENCE	1 and onward
showFrame	<boolean>	Point out that show frame or not.	1 and onward
showLine	<boolean>	Point out that show line or not.	1 and onward
showVirtualFence	<boolean>	Point out that show virtual fence or not.	1 and onward
beep	<boolean>	Point out that beep or not.	1 and onward
sens	<integer>	Analytics sensitivity. 0: ANALYTICS_SENS_LOW 1: ANALYTICS_SENS_MEDIUM 2: ANALYTICS_SENS_HIGH	1 and onward
dwellTime	<integer>	Analytics dwellTime for ANALYTICS_TYPE_LOITERING.	1 and onward

direction	<integer>	Analytics direction (no longer relevent).	1 and onward
objSize	<integer>	Analytics objSize for ANALYTICS_TYPE_FOREIGN_OBJ.	1 and onward
region	<string>	Analytics region.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
direction=0&camId=32&version="1"&showFrame=true&api="SYNO.SurveillanceStation.Analytics.Setting"®i
on="1111111111111111111111111111111111111111111111111111111111111111111111111111111111
11111111111111111111111111111111111111111111111111111111111111111111111111111111111111
11111111111111111111111111111111111111111111111111111111111111111111111111111111111111
11111111111111111111111111111111111111111111111111111111111111111111111111111111111111
11111111111111111111111111111111111111111111111111111111111111111111111111111111111111
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11111111111111111111111111111111111111111111111111111111111111111111111111111111111111
11111111111111111111111111111111111111111111111111111111111111111111111111111111111111
11111111111111111111111111111111111111111111111111111111111111111111111111111111111111
11111111111111111111111111111111111111111111111111111111111111111111111111111111111111
"&dwellTime=5&beep=false&objSize=25&sens=2&showLine=false&showVirtualFence=false&type=1&meth
od="Save"
```

Response

Name	Value	Description	Availability
success	<boolean>	Success or not.	1 and onward

Example:

```
{
"data": {
   "success": boolean
},
"success": true
}
```

2.3.35.2 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.
407	CMS closed.

2.3.36 SYNO.SurveillanceStation.SnapShot

This API provides functions on snapshot, including taking, editing and deleting snapshots.

API Name	Version	Availability
SYNO.SurveillanceStation.SnapShot	1	Surveillance Station 6.0-2337

Method Name	Section	Availability
ChkFileExist	2.3.4.1	1 and onward
Edit	2.3.4.2	1 and onward
CountByCategory	2.3.36.3	1 and onward
ChkContainLocked	2.3.4.3	1 and onward
UnlockFiltered	2.3.4.4	1 and onward
List	2.3.36.6	1 and onward
Unlock	2.3.36.7	1 and onward
TakeSnapshot	2.3.36.8	1 and onward
GetSetting	2.3.36.9	1 and onward
DeleteFiltered	2.3.36.10	1 and onward
LoadSnapshot	2.3.36.11	1 and onward
Lock	2.3.36.12	1 and onward
Download	2.3.36.13	1 and onward
LockFiltered	2.3.36.14	1 and onward
SaveSetting	2.3.36.15	1 and onward
Save	2.3.36.16	1 and onward
ChkSnapshotValid	2.3.36.17	1 and onward
GetCapabilityByCamIdDelete	2.3.36.18	1 and onward

2.3.36.1 ChkFileExist method

Check if the snapshot file is exist.

Request

Parameter	Value	Description	Availability
id	<integer>	Id of the snapshot file to check if exist.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.SnapShot"&id=1&version="1"&method="ChkFileExist"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.36.2 Edit method

Save the modification of snapshot.

Request

Parameter	Value	Description	Availability
id	<integer>	Id of the snapshot.	1 and onward
createCopy	<boolean>	*Optional*. Set true to create another snapshot and save modification to it.	1 and onward
width	<integer>	Width of snapshot.	1 and onward
height	<integer>	Height of snapshot.	1 and onward
byteSize	<integer>	File size of snapshot in byte.	1 and onward
imageData	<string>	Image data of snapshot in base64 format.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
width=480&api="SYNO.SurveillanceStation.SnapShot"&version="1"&imageData="/9j/4AAQSkZJRgABAQAA
AQABAAD/2wBDAAMCAgICAgMCAgIDAwMDBAYEBAQEBAgGBgUGCQgKCgkICQkKDA8MCgsOCwkJDRENDg
8QEBEQCgwSExIQEw8QEBD/2wBDAQMDAwQDBAgEBAgQCwkLEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBA
QEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBD/wAARCAKAAeADASIAAhEBAxEB/8QAHwAAAQUBAQEB
AQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxF
DKBkaEII0KxwRVS0fAkM2JyggkKFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3
R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5uf
o6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcF
BAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg
5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsr
O0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwD9EvEXjL
SG0+bVdMv7e5hTRLzUIpoZPMR/uIh/Wq1hr2y+XSvM+aHVrLSdv+3Hbee9fL0dhr3wf8aXPgDXI/8AQfE9zY6db
zfwW269jd9n+xIn/j9eqJ4lgs5J/EUcg2x3/i3xG2/+5ap9lT/0bW2HlGpTNT0G+8ZxXHhm8vYJP3r6Dfagn/baX9z
WsvhR20rU7ZINlxNp6WCOIkjOwJ/f/wDi68z8J2k2qzXGjuY3jttO8MaPL/vt/pM36S19EJ90VrXUaXwkzPCvEOm
3VnfalqXl+X5Mutamn/bGyjsof/RtZlkjafrFnBIn7mw1WztHT+4mn6NI7/8AkSvc9S0Kw1SKSOeIDzo2hZv9hm+c
f8CrgPFPhqTTGv8AV7SON3S01a7Tf9x57jy0T/xypg4S0QHm3/CJ3Nh4V0zXLuWN31DRm1b5IvufuYESP/vuX/y
LXK+J9Ne2sdQsfM+5LfeSn/XN44a+p7nwzZTadaaVKEkihjg+fukbo+P+BeVXAeIfAz3M9ojx/667td7/wDXTUJL
mb/xyvExeX+2nz0yDM+EGtanP4mXQ7uSR0SXUrh3f+Py/Ihrqvif4YEN3p/xI0fT5LnWDb+b5UP37m2b5Jo/wD
visT4N6dMmtNqF1G8LrpfnOh/v3V5O/8A7Sr1zzo/
+etd9NSoxjCRqJZ3MV5FHdQn5Jo1dasj734VznhmWwtoRo2nW80cdv5jok3VR5r/APjmfu+1dBVzIDZ+831ia/4
a07XYY4LqAOEljf8A75mjf/2lVnWNSGkxx3B5UtI7/wC4qO/9KW21W2uCm1vvysn/AHzv/wDjVQZHh3x6+FC2/
wAP9Y8QaOxvLvTYPOa2ki/1kO/95/OV6/KfWIUTUp5E/wBmv268fzRxeB/EE7v+6TSrt2+nkvX4izJ9/9Li3vz
/8Arx8Zye1LHWb741qZ6ENFFFADXqulWKqQ/wAX+81AD0ov/wDjxuf+uEn/AKKBQlS3H/HvL/
wBcmoQI/Vn9j/U5fiN+zH4T/wCEgEgMge0hl0wun7rekLvGP/4KUon/AArLw5/
+kpf8Agmv4qn174K654d8zY+ia1IiO/wD02TfR/wAFE3t7D4L+HdOvtR8+9fW1ETv9+bbDJvr1sTy/VzWHxH5wa
x/yDp/92tuz+4tYWq/8eE/
+5W7Yf8e8VeatjJlK5/5DN5/1wh/9qVzOpQ73l/266u5TZqtzJ/fto6x4bO41K+Sxgj3yzNsSiAFvXk2eFfC8f+1ff+hx
1iXP/LL/AHa2/Ej/APFP+Gk/ufbP/Q465rVdStbDyPtcmzevmf/brQ/jnT/brQR/Jj/Jj/1cj1Ss5kuYI0+4
676ZretroNj9uk+55+Pr7bsxKtenetVq/Ik/gNd4/P8kr1/9n+XWvgL/8LJZLN5Znl5+3w5w1j6a7D1zXtPwS/zz/X
btviLLNPBBfW9unnMqbPbPN/vP7/pq1k9J/J4+pK+N7u/8A+/6e63/3hcpBHN/8AdEV8uBRoyAIAGuvwmi/wA4X1Sw+/6/OQ
```

```
la/8AXBa5d/8AVv8A7rV1HxC/5CsH/XBa5eb/AFEv+61cEv4h1Q+A8Xu5tlxLJ/tV9eWuqtc/B/4ead/c0tpX/wC+9
iV8fam+6ST/AHq9z8K/Ejw2fCWjadd6xHBcWFktpsff/C8n+xXXmNCc8PFwLw04HrvgPQYtb1ny57fz0RfufwfNU
vj/AOIXwi8AeI7zwzfeA7i9uLNY97wy/JvkTf8A365Lwl8Y9E8MSNJY6pp87vt+d/8AZroNS+N+kaxB/wATnT/D90
k38b/x7a8HBx9hVlOrCRtXfP8AAekeBvCXg3xb4ctvEEnheS1+0/Ps+1P/APF1p3PhLRvDcGq32gWfkXH9n3Hz+b
5v8FeeWH7QmlpBFaWNtoaRQrsREuvuV6Gmqy3n2OC+j2S6laXXyf8AbGSu6FT3jgnz/bPknUtV8YPfT+R4ouIE
eeT5PKT5PnqKHWPEqJ5c+sSTv/f8pKt36bL6VP8Apo1V/JFdr5LGJpaJ4q1nR9Vg1Ke3t72KFvntp/uOlfS2m6b8P
vE/hyC+0rR7OfTLxfO8nyvnR/46+WXSrH/CW+KtNsYtNsfEF5a2kLfJDBL5VRPn+wRM+mIdB8PpHr19o+nyJ/xL5
oX+/wDf2f7deRIkqSXzySSOk0u9K2/G3xXuvAEF94cg1CSB9V02xe33xPKnzJJ5yff/AIq8n1Xxnq/iHw5PPptnHay
23zzXMET7Jk/4HW1GMx/UKnxnS36eYkv+7Xi/xOhaGSxf/ZkWvTfCvip9VnttGgjjvW/juXl+fZ/ubFrjfjFbIm7Z/Bc
1vTn+8M4UZ05nk/nL/wA85alS4jSnolS+Sr12ylE6CWHUoqtpeW71ShtoP+edaENpZv0tI6xnyGRn6xfolrsgk+d6
5wSY7Vt+ILaC2ePyYI031BZ+Gdbv7Rb600+SaF2K7krvpW5CD+hj44eF/D/xf8HywWMsCahCi3Fjcp9+aFv7lfPXg
/xNq954Z17wPrFrNBqWg+HofC77/wDl5fUNV/16f7yV7WPFRvEV4bLyLq5luoWs8+Vs1CH/AI/LFP8AeT9/F/t1
5F43S1tvE3h/4r6dBJqP9mz2d9qCQffvNP8AO3pJ/wB/Iv8AgDxbP40ry8Nmn+2wpfYkelCB738LwNQ8Va5fD7s
vjG+RP9yzs47X/wBDr29a8Z/Z7dbzwtomqx/8xS21DW3/AO36889K9kTv9K+kxi/eWfQ46nxj6yvENsl1YfZZPu3
M0MTf991q1XlXfJD/ANdP/ZK5iByXMLuyB+UbZVTV0VrUv/cEjf8AkN68/wDEHidrP+0GRZ9ywaky/wC+tzBbJTr
7xq1tLeW5idwqaiF/7Z3sFsn860SA6Dw4mn6HdX0c80cT+Xa2/wA//TOFP/jtdcu2vn34l69511beRJ8qazNvf+5t
mjh/9pU74Y/GG/tYI9L8TXAmiMe+KZ/9yd//AGlXl1MfFYl0ZgejeOfE48Garp+r3aKLC4uYbS7lbpFC3mfP/wABfy
q7iuS1HTdM+Inhm90+7j2Lcxx/8AZoUcf+jah+F+t32raA1hrkkf8AbeiTNp+ooB911+4//A4/Kf8AGvQKOo1TSLX
VY0S5/g+7XKS"&createCopy=false&byteSize=51039&method="Edit"&id=156744&height=640
```

Response

Key	Value	Description	Availability
recordData	<Details Object>	Information and image about the snapshot.	1 and onward
snapshotId	<integer>	Id of the saevd snapshot.	1 and onward
success	<boolean>	Success or not.	1 and onward

<Details Object**>** definition

Key	Value	Description	Availability
id	<integer>	Id of snapshot.	1 and onward
height	<integer>	Height of snapshot.	1 and onward
width	<integer>	Width of snapshot.	1 and onward
recordId	<string>	Identification in cms "{server_id}_{id_on_server}".	1 and onward
camName	<string>	Camera name of the snapshot.	1 and onward
fileName	<string>	File path where the snapshot is saved.	1 and onward
imageData	<string>	Image data in base64 format.	1 and onward
modifiedCnt	<integer>	Modified count.	1 and onward
markAsDel	<boolean>	True if the snapshot is mark as deleted.	1 and onward
locked	<boolean>	True if the snapshot is locked.	1 and onward
byteSize	<integer>	File size of snapshot in byte.	1 and onward
createdTm	<integer>	Timestamp of the last modification of snapshot image.	1 and onward
lastModifiedTm	<integer>	Timestamp of the last modification of snapshot image.	1 and onward
update_time	<integer>	Timestamp of the last modification of snapshot database.	1 and onward

Example:

```
{
"data": {
  "snapshotId": 156744,
  "recordData": {
    "modifiedCnt": 1,
    "update_time": 1425360178,
    "imageData":
"/9j/4AAQSkZJRgABAQAAAQABAAD/2wBDAAMCAgICAgMCAgIDAwMDBAYEBAQEBAgGBgUGCQgKCgkICQk
KDA8MCgsOCwkJDRENDg8QEBEQCgwSExIQEw8QEBD/2wBDAQMDAwQDBAgEBAgQCwkLEBAQEBAQEBAQ
EBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBD/wAARCAKAAeADASIAAhEBAx
EB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDA
AQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2JyggkKFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFV
WV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJ
ytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL
/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNO
El8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZa
XmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADA
MBAAIRAxEAPwD9EvEXjLSG0+bVdMv7e5hTRLzUIpoZPMR/uIh/Wq1hr2y+XSvM+aHVrLSdv+3Hbee9fL0dhr3
wf8aXPgDXI/8AQfE9zY6dbzfwW269jd9n+xIn/j9eqJ4lgs5J/EUcg2x3/i3xG2/+5ap9lT/0bW2HlGpTNT0G+8ZxXH
hm8vYJP3r6Dfagn/baX9zWsvhR20rU7ZINlxNp6WCOIkjOwJ/f/wDi68z8J2k2qzXGjuY3jttO8MaPL/vt/pM36S1
9EJ90VrXUaXwkzPCvEOm3VnfalqXl+X5Mutamn/bGyjsof/RtZlkjafrFnBIn7mw1WztHT+4mn6NI7/8AkSvc9S0K
w1SKSOeIDzo2hZv9hm+cf8CrgPFPhqTTGv8AV7SON3S01a7Tf9x57jy0T/xypg4S0QHm3/CJ3Nh4V0zXLuWN31
DRm1b5IvufuYESP/vuX/yLXK+J9Ne2sdQsfM+5LfeSn/XN44a+p7nwzZTadaaVKEkihjgg+fukbo+P+BeVXAeIfAz3
M9ojx/667td7/wDXTUJLmb/xyvExeX+2nz0yDM+EGtanP4mXQ7uSR0SXUrh3f+Py/Ihrqvif4YEN3p/xI0fT5LnW
PDb+b5UP37m2b5Jo/wDvisT4N6dMmtNqF1G8LrpfnOh/v3V5O/8A7Sr1zzo/
+etd9NSoxjCRqJZ3MV5FHdQn5Jo1dasj734VznhmWwtoRo2nW80cdv5jok3VR5r/APjmfu+1dBVzIDZ+831ia/4
a07XYY4LqAOEljf8A75mjf/2lVnWNSGkxx3B5UtI7/wC4qO/9KW21W2uCm1vvysn/AHzv/wDjVQZHh3x6+FC2/
wAP9Y8QaOxvLvTYPOa2ki/1kO/95/OV6/KfWIUTUp5E/wBmv268fzRxeB/EE7v+6TSrt2+nkvX4izJ9su5/3n39vz
/8Arx8Zye1LHWb741qZ6zNKm+7Wm9cQENFFFADXqulWKqQ/wAX+81AD0ov/wDjxuf+uEn/AKBQlS3H/HvL/
wBcmoQI/Vn9j/U5fiN+zH4T/wCEgMge0hl0wun7rekLvGP/AByuB/4KUon/AArLw5J/Gmr7P+
+kpf8Agmv4qn174K6OiO/wD02TfR/wAFE3t7D4L+HdOvtR8+9fW1ETv9+bbDJvr1sTy/VzWHxH5wa
x/yDp/92tuz+4tYWq/8eE/
+5W7Yf8e8VeatjJlK5/5DN5/1wh/9qVzOpQ73l/266u5TZqtzJ/fto6x4bO41K+Sxgj3yzNsSiAFvx/f1+1ff+hx
1iXP/LL/AHa2/Ej/APFP+Gk/ufbP/Q465rVdStbDyPtq/bP/Q465rVdStbDyPtcmzevyf7ddxjAnezbtyPy7u3jnT/brQR/Jj/1cP/Tj/Ss5kuYIp0+4
676ZretroNj9uk+55ip/31LqS1t7e63/P8kr1/Lqpreq6zYaVeXUGlbPN/oq1kUcf4/4x/
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la/8AXBa5d/8AVv8A7rV1HxC/5CsH/XBa5eb/AFEnH9eu6qtc/c/vLP+Xwf3k/8nc+1uSJT+/FtVh7n8o80O4uxt6ZMpG/a/4IdjrMNEdLfhGyDMgt+2w...
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        "lastModifiedTm": 1425371053,
        "fileName": "P1347-20150303-1624131444-Modified-1.jpg",
        "id": 156744,
        "locked": true,
        "recordId": "0_156744",
        "byteSize": 51039,
        "width": 480,
        "camName": "P1347",
        "createdTm": 1423539583,
        "markAsDel": false
    },
    "success": true
}
}
```

2.3.36.3 CountByCategory method

Get the count number of snapshots in category.

Request

Parameter	Value	Description	Availability
keyword	<string>	*Optional*. Name of the camera vendor.	1 and onward
from	<integer>	*Optional*. UTC unix timestamp, used to select all snapshots later than this timestamp from database, 0 means no filter.	1 and onward
to	<integer>	*Optional*. UTC unix timestamp, used to select all snapshots earlier than this timestamp from database, 0 means no filter.	1 and onward
timezoneOffset	<integer>	*Optional*. The offset to be shifted in the total result. If not specified, the offset will be 0.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
from=0&keyword=""&api="SYNO.SurveillanceStation.SnapShot"&to=0&version="1"&method="CountByCat
egory"&timezoneOffset=480
```

Response

Key	Value	Description	Availability
date	<CountByDate Object>	Count of snapshot.	1 and onward
total	<integer>	Total number of snapshots.	1 and onward

<CountByDate Object> definition:

Key	Value	Description	Availability
-1	<integer>	Total number count.	1 and onward
yyyy/mm/dd	<TimeCnt Object>	Number count of log of yyyy/mm/dd. (Ex:1990/05/09)	1 and onward

<TimeCnt Object> definition:

Key	Value	Description	Availability
-1	<integer>	Total number count in this day.	1 and onward
am	<integer>	Number count of snapshot in am.	1 and onward
pm	<integer>	Number count of snapshot in pm.	1 and onward

Example:

```
{
"data": {
   "date": {
      "2015/01/03": {
         "am": 0,
         "-1": 2,
         "pm": 2
      },
      "-1": 2
   },
   "total": 2
}
}
```

2.3.36.4 ChkContainLocked method

Check if there is any snapshot locked.

Request

Parameter	Value	Description	Availability
id	<string>	*Optional*. The specified snapshot id selected from database. If not specified, the id list will be empty string and have no effect.	1 and onward
from	<integer>	*Optional*. UTC unix timestamp, used to select all snapshots later than this timestamp from database, 0 means no filter.	1 and onward
to	<integer>	*Optional*. UTC unix timestamp, used to select all snapshots earlier than this timestamp from database, 0 means no filter.	1 and onward
keyword	<string>	*Optional*. Query keyword.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
from=0&idList=""&keyword=""&api="SYNO.SurveillanceStation.SnapShot"&to=0&version="1"&method="C
hkContainLocked"
```

Response

Key	Value	Description	Availability
containLocked	<integer>	True if there is any snapshot locked.	1 and onward
total	<integer>	The number of snapshots selected by the given filter condition.	1 and onward

Example:

```
{
"data": {
   "total": 3,
   "containLocked": false
},
"success": true
}
```

2.3.36.5 UnlockFiltered method

Unlock snapshots selected by filter condition.

Request

Parameter	Value	Description	Availability
from	<integer>	*Optional*. UTC unix timestamp, used to select all snapshots later than this timestamp from database, 0 means no filter.	1 and onward
to	<integer>	*Optional*. UTC unix timestamp, used to select all snapshots earlier than this timestamp from database, 0 means no filter.	1 and onward
keyword	<string>	*Optional*. Query keyword.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
from=1423497600&version="1"&keyword=""&to=1423584000&api="SYNO.SurveillanceStation.SnapShot"
&method="UnlockFiltered"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.36.6 List method

List snapshots information.

Request

Parameter	Value	Description	Availability
idList	<string>	*Optional*. The specified snapshot id selected from database. If not specified, the id list will be empty string and have no effect.	1 and onward
start	<integer >	*Optional*. The offset to be shifted in the total result. If not specified, the offset will be 0.	1 and onward
limit	<integer >	*Optional*. The number of snapshots to be selected in database. If not specified, the limit will be 0.	1 and onward
from	<integer >	*Optional*. UTC unix timestamp, used to select all snapshots later than this timestamp from database, 0 means no filter.	1 and onward
to	<integer >	*Optional*. UTC unix timestamp, used to select all snapshots earlier than this timestamp from database, 0 means no filter.	1 and onward
keyword	<string>	*Optional*. Query keyword.	1 and onward
imgSize	<integer >	*Optional*. Set image size that will append in the return data. 0: Do not append image 1: Icon size 2: Full size	1 and onward
blIncludeAuInfo	<boolean>	*Optional*. Set true to append snapshot auto-update information in the return data.	1 and onward
blIncludeRecCnt	<boolean>	*Optional*. Set true to append snapshot category count in the return data.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
from=0&idList=""&keyword=""&to=0&api="SYNO.SurveillanceStation.SnapShot"&blIncludeRecCnt=false&st
art=0&blIncludeAuInfo=false&limit=0&version="1"&method="List"
```

Response

Name	Value	Description	Availability
auInfo	<string>	Information for auto update	4
data	Array of <Details	Details of snapshot.	4

	Object>		
recCntData	<RecCntData Object>	Information of counting snapshot by catogory.	4
timestamp	<boolean>	Time stamp	4 and onward
total	<integer>	Total number of snapshots.	4 and onward

<RecCntData Object> definition

Key	Value	Description	Availability
recCnt	<CountByDate>	Count of snapshot.	1 and onward
total	<integer>	Total number of snapshots.	1 and onward

Example:

```
{
"data": {
   "timestamp": "1425360220",
   "total": 3,
   "data": [
      {
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         "update_time": 1425360178,
         "imageData":
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         "height": 90,
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         "byteSize": 6009,
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...
```

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            "fileName": "P1347-20150210-1139272768.jpg",
            "id": 156743,
            "locked": true,
            "recordId": "0_156743",
            "byteSize": 35246,
            "width": 640,
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            "fileName": "P1347-20150210-1134156008.jpg",
            "id": 156742,
            "locked": true,
            "recordId": "0_156742",
            "byteSize": 26392,
            "width": 640,
            "camName": "P1347",
            "createdTm": 1423499773,
            "markAsDel": false
        }
    ]
},
"success": true
}
```

2.3.36.7 Unlock method

Unlock the snapshots to allow users to delete the snapshots.

Request

Parameter	Value	Description	Availability
objList	Array of <ObjItem Object>	List of snapshots going to be locked.	1 and onward

<ObjItem Object**>** definition

Key	Value	Description	Availability
id	<string>	Snapshot id in "{server_id}:{snapshot_id}" format.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?api="SYNO.SurveillanceStation.SnapShot"&objList=[{"id": "0:1"},
{"id": "0:2"}]&version="1"&method="Unlock"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.36.8 TakeSnapshot method

Take a snapshot of the specified camera on the specified server.

Request

Parameter	Value	Description	Availability
dsId	<integer>	DS Id that user want to take snapshot.	1 and onward
camId	<integer>	Camera Id that user want to take snapshot.	1 and onward
blSave	<boolean>	*Optional*. Set true to save taken snapshot into database. true: the taken snapshot will be saved and only return snapshot id. false: the taken snapshot will not be saved and return details of snapshot.	1 and onward

Example: Take Snapshot of camera which id is 69

```
http://192.168.1.1:5000/webapi/entry.cgi?
camId=1&version="1"&blSave=true&api="SYNO.SurveillanceStation.SnapShot"&dsId=0&method="TakeSna
pshot"
```

Response

Name	Value	Description	Availability
id	<integer>	Id of snapshot.	1 and onward

Example:

```
{
"data": {
   "id": 1
},
"success": true
}
```

2.3.36.9 GetSetting method

Get the setting of snapshot functions.

Request

No parameter is required.

Example: Take Snapshot of camera which id is 69

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.SnapShot"&version="1"&method="GetSetting"
```

Response

Name	Value	Description	Availability
setting	<Setting Object>	Current setting of snapshot functions.	1 and onward

<Setting Object**>** definition

Key	Value	Description	Availability
dispSnapshot	<boolean>	Display the taken snapshot or not.	1 and onward
dispDuration	<integer>	Duration that snapshot is showed. 0: Do not show snapshot 1: 5 seconds after taking 2: 10 seconds after taking 3: 15 seconds after taking 4: 20 seconds after taking 5: Do not hide snapshot after taking	1 and onward
limitTotalSize	<boolean>	True if the total file size of snapshots is limited.	1 and onward
limitSizeInGb	<integer>	Limited size of snapshots in giga-byte.	1 and onward
storageMode	<integer>	Count of snapshot.0: On the top 1: On the bottom	1 and onward
addTimestamp	<boolean>	Append timestamp or not on the downloaded snapshot.	1 and onward
timestampPosition	<integer>	Position of the appended timestamp. 0: On the top 1: On the bottom	1 and onward

Example:

```
{
"data": {
   "setting": {
      "timestampPosition": 0,
      "limitSizeInGb": 1,
      "storageMode": 0,
      "dispDuration": 5,
        "dispSnapshot": true,
        "addTimestamp": true,
        "limitTotalSize": true
    }
},
"success": true
}
```

2.3.36.10 DeleteFiltered method

Delete snapshots selected by filter condition.

Request

Parameter	Value	Description	Availability
deleteAllCommand	<boolean>	*Optional*. Specify to delete all snapshots or filtered snapshots.	1 and onward
from	<integer>	*Optional*. UTC unix timestamp, used to select all snapshots later than this timestamp from database, 0 means no filter.	1 and onward
to	<integer>	*Optional*. UTC unix timestamp, used to select all snapshots earlier than this timestamp from database, 0 means no filter.	1 and onward
keyword	<string>	*Optional*. Query keyword.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
from=1423497600&keyword=""&api="SYNO.SurveillanceStation.SnapShot"&to=1423584000&version="1"
&deleteAllCommand=false&method="DeleteFiltered"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.36.11 LoadSnapshot method

Get snapshot image.

Request

Parameter	Value	Description	Availability
Id	<integer>	Id of the snapshot file to download.	1 and onward
imgSize	<integer>	*Optional*. Set image size that will append in the return data. 0: Do not append image 1: Icon size 2: Full size	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
method="LoadSnapshot"&api="SYNO.SurveillanceStation.SnapShot"&id=1&version="1"&imgSize=1
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.36.12 Lock method

Lock the snapshots to prevent users to mistakenly delete the important snapshots.

Request

Parameter	Value	Description	Availability
objList	Array of <ObjItem Object>	List of snapshots going to be locked.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?api="SYNO.SurveillanceStation.SnapShot"&objList=[{"id": "0:1"},
{"id": "0:2"}]&version="1"&method="Lock"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.36.13 Download method

Download single snapshot image.

Request

Parameter	Value	Description	Availability
id	<integer>	Id of the snapshot file to download.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.SnapShot"&id=1&version="1"&method="Download"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.36.14 LockFiltered method

Lock snapshots selected by filter condition.

Request

Parameter	Value	Description	Availability
from	<integer>	*Optional*. UTC unix timestamp, used to select all snapshots later than this timestamp from database, 0 means no filter.	1 and onward
to	<integer>	*Optional.* UTC unix timestamp, used to select all snapshots earlier than this timestamp from database, 0 means no filter.	1 and onward
keyword	<string>	*Optional.* Query keyword.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.SnapShot"&id=1&version="1"&method="Download"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.36.15 SaveSetting method

Save and apply new setting to snapshot functions.

Request

Parameter	Value	Description	Availability
dispSnapshot	<boolean>	Display the taken snapshot or not.	1 and onward
dispDuration	<integer>	Duration that snapshot is showed. 0: Do not show snapshot 1: 5 seconds after taking 2: 10 seconds after taking 3: 15 seconds after taking 4: 20 seconds after taking 5: Do not hide snapshot after taking	1 and onward
limitTotalSize	<boolean>	True if the total file size of snapshots is limited.	1 and onward
limitSizeInGb	<integer>	Limited size of snapshots in giga-byte.	1 and onward
addTimestamp	<boolean>	Append timestamp or not on the downloaded snapshot.	1 and onward
timestampPosition	<integer>	Position of the appended timestamp. 0: On the top 1: On the bottom	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
timestampPosition=0&limitSizeInGb=2&api="SYNO.SurveillanceStation.SnapShot"&dispSnapshot=true&version="1"&addTimestamp=true&limitTotalSize=true&dispDuration=5&method="SaveSetting"
```

Response

Name	Value	Description	Availability
setting	<Setting Object>	Current setting of snapshot functions.	1 and onward

Example:

```
{
"data": {
   "setting": {
      "timestampPosition": 0,
      "limitSizeInGb": 1,
      "storageMode": 0,
      "dispDuration": 5,
      "dispSnapshot": true,
      "addTimestamp": true,
      "limitTotalSize": true
   }
},
"success": true
}
```

2.3.36.16 Save method

Save snapshot.

Request

Parameter	Value	Description	Availability
camName	<string>	Camera name of the snapshot.	1 and onward
createdTm	<integer>	Created time of the snapshot.	1 and onward
width	<integer>	Width of snapshot.	1 and onward
height	<integer>	Height of snapshot.	1 and onward
byteSize	<integer>	File size of snapshot in byte.	1 and onward
imageData	<string>	Image data of the snapshot in base64 format.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
width=480&camName="P1347"&version="1"&imageData="/9j/4AAQSkZJRgABAQAAAQABAAD/2wBDAAM
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+EGtanP4mXQ7uSR0SXUrh3f+Py/Ihrqvif4YEN3p/xI0fT5LnWPDb+b5UP37m2b5Jo/wDvisT4N6dMmtNqF1G8
LrpfnOh/v3V5O/8A7Sr1zzo/
+etd9NSoxjCRqJZ3MV5FHdQn5Jo1dasj734VznhmWwtoRo2nW80cdv5jok3VR5r/APjmfu+1dBVzIDZ+831ia/4
a07XYY4LqAOEljf8A75mjf/2lVnWNSGkxx3B5UtI7/wC4qO/9KW21W2uCm1vvysn/AHzv/wDjVQZHh3x6+FC2/
wAP9Y8QaOxvLTYPOa2ki/1kO/95/OV6/KfWIUTUp5E/wBmv268fzRxeB/EE7v+6TSrt2+nkvX4izJ9su5/3n39vz
/8Arx8Zye1LHWb741qZ6zNKm+7Wm9cQENFFFADXqulWKqQ/wAX+81AD0ov/wDjxuf+uEn/AKBQlS3H/HvL/
wBcmoQI/Vn9j/U5fiN+zH4T/wCEgEgMge0ehl0wun7rekLvGP/AByuB/4KUon/AArLw5J/Gmr7P+
+kpf8Agmv4qn174K654d8zY+ia1IiO/wD02TfR/wAFE3t7D4L+HdOvtR8+9fW1ETv9+bbH5wa
x/yDp/92tuz+4tYWq/8eE/
```

```
+5W7Yf8e8VeatjJlK5/5DN5/1wh/9qVzOpQ73l/266u5TZqtzJ/fto6x4bO41K+Sxgj3yzNsSiAFvXk2eFfC8f+1ff+hx
1iXP/LL/AHa2/Ej/APFP+Gk/ufbP/Q465rVdStbDyPtcmzevyf7ddxjAneztbyPy7u3jnT/brQR/Jj/1cj1Ss5kuYIp0+4
676ZretroNj9uk+55ip/31WBZrJeXH/LDS7iT/AL4/+Lqpreq6zYaVeXUGlyI6QNsfzU+SucvPiL9j8qS1t7e63/P8kr1
btviLLNPBBfW9unnMqbPN/vPVckzY7DTbl5tD0yef78yxu7/3/kro7T/UrXM6xNs+wwfx10FnN/oq1kUcf4//AOQ

```

Response

Name	Value	Description	Availability
createdTm	<integer>	Created time of the snapshot.	1 and onward
snapshotId	<integer>	Id of the saevd snapshot.	1 and onward
success	<boolean>	Success or not.	1 and onward

Example:

```
{
"data": {
   "createdTm": 1423539583,
   "snapshotId": 156744,
   "success": true
},
"success": true
}
```

2.3.36.17 ChkSnapshotValid method

Check status of the snapshot.

Request

Parameter	Value	Description	Availability
dispSnapshot	<boolean>	Id of snapshot checked.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.SnapShot"&id=1&version="1"&method="ChkSnapshotValid"
```

Response

Name	Value	Description	Availability
itemStatus	<integer>	Current setting of snapshot functions.	1 and onward

Example:

```
{
"data": {
   "itemStatus": integer
},
"success": boolean
}
```

2.3.36.18 Delete method

Delete the selected snapshots.

Request

Parameter	Value	Description	Availability
objList	Array of <ObjItem Object>	List of snapshots going to be locked.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?api="SYNO.SurveillanceStation.SnapShot"&objList=[{"id": "0:1"},
{"id": "0:2"}]&version="1"&method="Delete"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.36.19 API Error Code

Code	Description
105	No permission.
400	Execution failed.
418	Object is not exist.

2.3.37 SYNO.SurveillanceStation.VisualStation

This API provides method to get information of VisualStation.

API Name	Version	Availability
SYNO.SurveillanceStation.VisualStation	1	Surveillance Station 6.0-2337

Method Name	Section	Availability
Enable	2.3.9.1	1 and onward
ReqNetConfig	2.3.9.2	1 and onward
Edit	2.3.37.3	1 and onward
Lock	2.3.37.4	1 and onward
Enum	2.3.37.5	1 and onward
Unlock	2.3.9.3	1 and onward
Disable	2.3.9.4	1 and onward
Delete	2.3.9.5	1 and onward

2.3.37.1 Enable method

Enable specific VisualStations by VS IDs.

Request

Parameter	Value	Description	Availability
vslists	<string>	The enabled VisualStation list.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
method="Enable"&api="SYNO.SurveillanceStation.VisualStation"&version="1"&vslists="8"
```

Response

Key	Value	Description	Availability
success	<boolean>	Successful or not.	1 and onward

Example:

```
{
"data": {
  "success": true
},
"success": true
}
```

2.3.37.2 ReqNetConfig method

Update network configuration of the VisualStation.

Request

Parameter	Value	Description	Availability
vsMac	<string>	*Optional*. MAC address of this VisualStation.	1 and onward
ip	<string>	*Optional*. IP address of this VisualStation.	1 and onward
mask	<string>	*Optional*. Subnet mask of this VisualStation.	1 and onward
gateway	<string>	*Optional*. Gateway address of this VisualStation.	1 and onward
blDhcp	<boolean>	*Optional*. The IP address is set by DHCP or not.	1 and onward
name	<string>	*Optional*. The name of this VisualStation.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
method="ReqNetConfig"&api="SYNO.SurveillanceStation.VisualStation"&blDhcp=true&version="1"&vsMac
="FE:A5:1D:7E:C0:7B"&ip="10.13.13.71"&mask="255.255.240.0"&gateway="10.13.15.254"&name="Visual
Station Name"
```

Response

Key	Value	Description	Availability
success	<boolean>	Successful or not.	1 and onward

Example:

```
{
"data": {
   "success": true
},
"success": true
}
```

2.3.37.3 Edit method

Save the setting of VisualStation.

Request

Parameter	Value	Description	Availability
data	<EditParam Object>	*Optional*. Updated setting of VisualStation.	1 and onward

<EditParam Object**>** definition

Key	Value	Description	Availability
vsId	<integer>	ID of VisualStation.	1 and onward
name	<string>	Name of VisualStation.	1 and onward
ip	<string>	IP address of this VisualStation.	1 and onward
mac	<string>	Mac address of this VisualStation.	1 and onward
platform	<string>	Platform of this VisualStation.	1 and onward
version	<string>	Version of this VisualStation.	1 and onward
maxch	<string>	Maximum channel number of this VisualStation.	1 and onward
capflags	<string>	VisualStation capability. 0: FLAG_VS_CAP_NONE 1: FLAG_VS_CAP_TIMEZONE	1 and onward
dhcp	<string>	Point out that IP address of this VisualStation is assigned by dhcp or manual.	1 and onward
newIP	<string>	New IP address of this VisualStation by manual setting.	1 and onward
subnet	<string>	Subnet mask of this VisualStation.	1 and onward
gateway	<string>	gateway address of this VisualStation.	1 and onward
timezone	<string>	Timezone of this VisualStation.	1 and onward
language	<string>	Language of this VisualStation.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
method="ReqNetConfig"&api="SYNO.SurveillanceStation.VisualStation"&blDhcp=true&version="1"&vsMac
="FE:A5:1D:7E:C0:7B"&ip="10.13.13.71"&mask="255.255.240.0"&gateway="10.13.15.254"&name="Visual
Station Name"
```

Response

Key	Value	Description	Availability
success	<boolean>	Successful or not.	1 and onward

Example:

```
{
```

```
"data": {
   "success": true
},
"success": true
}
```

2.3.37.4 Lock method

Lock specific VisualStations by VS IDs.

Request

Parameter	Value	Description	Availability
vslists	<string>	The locked VisualStation list.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
method="Lock"&api="SYNO.SurveillanceStation.VisualStation"&version="1"&vslists="8"
```

Response

Key	Value	Description	Availability
success	<boolean>	Successful or not.	1 and onward

Example:

```
{
"data": {
   "success": true
},
"success": true
}
```

2.3.37.5 Enum method

Enumerate all Visualstation ownered by SurveillanceStation.

Request

No parameter is required.

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.VisualStation"&version="1"&method="Enum"
```

Response

Key	Value	Description	Availability
VS	Array of <VS Object>	Saved Layout ID.	1 and onward
total	<integer>	Number of VisualStation.	1 and onward

<VS Object**>** definition

Key	Value	Description	Availability
capFlags	<integer>	VisualStation capability. 0: FLAG_VS_CAP_NONE 1: FLAG_VS_CAP_TIMEZONE	1 and onward
defLayout	Array of <integer>	Point out that IP address of this VisualStation is assigned by dhcp or not.	1 and onward
dhcp	<boolean>	Point out that IP address of this VisualStation is assigned by dhcp or not.	1 and onward
dsStatus	<integer>	DS status of the camera.	1 and onward
enable	<boolean>	This VisualStation is enabled or not.	1 and onward
gateway	<string>	gateway address of this VisualStation.	1 and onward
id	<integer>	ID of VisualStation.	1 and onward
idOnRecServer	<integer>	ID of this VisualStation on recording server.	1 and onward
ip	<string>	IP address of this VisualStation.	1 and onward
language	<string>	Language of this VisualStation.	1 and onward
Lock	<integer>	VisualStation is locked or not.	1 and onward
macaddr	<string>	MAC address of this VisualStation.	1 and onward
mask	<string>	Netmask of this VisualStation.	1 and onward
maxch	<integer>	Maximum channel number of this VisualStation.	1 and onward
name	<string>	Name of this VisualStation.	1 and onward
ownerDsId	<integer>	Owner DS ID of this VisualStation.	1 and onward
platform	<string>	Platform of this VisualStation.	1 and onward
status	<integer>	Status of this VisualStation.	1 and onward
timezone	<string>	Timezone of this VisualStation.	1 and onward
version	<string>	Package version of VisualStation.	1 and onward

Example:

```
{
"data": {
  "total": 1,
  "VS": [
    {
      "status": 0,
      "enable": true,
      "language": "enu",
      "defLayout": [
        11,
        11
      ],
      "platform": "VS240HD",
      "ownerDsId": 0,
      "ip": "10.13.13.71",
      "version": "2.1-1291",
      "mask": "255.255.240.0",
      "id": 8,
      "timezone": "Taipei",
      "capFlags": 0,
      "macAddr": "FE:A5:1D:7E:C0:7B",
      "dsStatus": 0,
      "idOnRecServer": 0,
      "lock": 1,
      "dhcp": false,
      "maxch": 36,
      "gateway": "10.13.15.254",
      "name": "VS Name"
    }
  ]
},
"success": true
}
```

2.3.37.6 Unlock method

Unlock specific VisualStations by VS IDs.

Request

Parameter	Value	Description	Availability
vslists	<string>	The unlocked VisualStation list.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
method="Unlock"&api="SYNO.SurveillanceStation.VisualStation"&version="1"&vslists="8"
```

Response

Key	Value	Description	Availability
success	<boolean>	Successful or not.	1 and onward

Example:

```
{
"data": {
   "success": true
},
"success": true
}
```

2.3.37.7 Disable method

Disable specific VisualStations by VS Ids.

Request

Parameter	Value	Description	Availability
vslists	<string>	The unlocked VisualStation list.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
method="Disable"&api="SYNO.SurveillanceStation.VisualStation"&version="1"&vslists="8"
```

Response

Key	Value	Description	Availability
success	<boolean>	Successful or not.	1 and onward

Example:

```
{
"data": {
   "success": true
},
"success": true
}
```

2.3.37.8 Delete method

Delete specific VisualStations from SurveillanceStation.

Request

Parameter	Value	Description	Availability
vslists	<string>	The unlocked VisualStation list.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
method="Delete"&api="SYNO.SurveillanceStation.VisualStation"&version="1"&vslists="7,9"
```

Response

Key	Value	Description	Availability
success	<boolean>	Successful or not.	1 and onward

Example:

```
{
"data": {
   "success": true
},
"success": true
}
```

2.3.37.9 API Error Code

Code	Description
100	Unknown error.
400	Execution failed.
419	Visualstation name repetition.

2.3.38 SYNO.SurveillanceStation.VisualStation.Layout

This API provides method to get layout information of VisualStation.

API Name	Version	Availability
SYNO.SurveillanceStation.VisualStation.Layout	1	Surveillance Station 6.0-2337

Method Name	Section	Availability
Enum	2.3.10.1	1 and onward
Save	2.3.38.2	1 and onward
Delete	2.3.38.3	1 and onward

2.3.38.1 Enum method

Enumerate Layout Inforamtion of VisualStation.

Request

Parameter	Value	Description	Availability
vsId	<Integer>	ID of VisualStation.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.VisualStation.Layout"&version="1"&vsId=35&method="Enum"
```

Response

Key	Value	Description	Availability
data	Array of <layoutList Object>	Layout List of VisualStation.	1 and onward
success	<boolean>	Successful or not.	1 and onward

<layoutList Object**>** definition

Key	Value	Description	Availability
camGrpName	<string>	camera Group Name.	1 and onward
camGrpId	<integer>	camera Group ID. -1: normal camera. other than -1, camera group ID.	1 and onward
channelList	Array of <cameraList Object>	Camera list of the layout.	1 and onward
layoutType	<integer>	Channel number of layout type. 1: SYNO.SS.Layout.Def.TYPE_1. 4: SYNO.SS.Layout.Def.TYPE_4. 6: SYNO.SS.Layout.Def.TYPE_6.	1 and onward

		9: SYNO.SS.Layout.Def.TYPE_9. 10: SYNO.SS.Layout.Def.TYPE_10. 13: SYNO.SS.Layout.Def.TYPE_13. 14: SYNO.SS.Layout.Def.TYPE_13_B. 16: SYNO.SS.Layout.Def.TYPE_16. 25: SYNO.SS.Layout.Def.TYPE_25. 36: SYNO.SS.Layout.Def.TYPE_36. 49: SYNO.SS.Layout.Def.TYPE_49. 64: SYNO.SS.Layout.Def.TYPE_64. -2: SYNO.SS.Layout.Def.TYPE_CAMERA_GROUP. 0: SYNO.SS.Layout.Def.TYPE_SEQUENCE	
isFixAspectRatio	<string>	The layout is FixAspectRatio or not.	1 and onward
customPosList	Array of <customPosList Object>	Customized Channel location list of this layout.	1 and onward
id	<integer>	The layout ID.	1 and onward
isDefault	<boolean>	The layout is default or not.	1 and onward
name	<string>	The name of layout.	1 and onward

<cameraList Object**>** definition

Key	Value	Description	Availability
name	<string>	The camera name.	1 and onward
dsId	<integer>	The DS ID of the camera.	1 and onward
dsName	<string>	The DS name of the camera.	1 and onward
location	<integer>	The location of the camera in specific layout.	1 and onward
type	<integer>	The type of camera.	1 and onward
id	<integer>	The ID of the camera.	1 and onward

<customPosList Object**>** definition

Key	Value	Description	Availability
customPosList	Array of <posList Object>	Customized channel display information of layout.	1 and onward

<posList Object**>** definition

Key	Value	Description	Availability
posList	Array of <integer>	Customized channel width and height Information of layout. Length of Array is 4. Array[0]: top-left x position relative to to base width. Array[1]: top-left y position relative to base height. Array[2]: customized width ratio of base width. Array[3]: customized height ratio of base height.	1 and onward

Example:

```
{
"data": {
   "data": [
        {
            "camGrpName": "",
            "camGrpId": -1,
            "layoutType": 6,
            "isFixAspectRatio": false,
            "channelList": [
                {
                    "name": "Camera Name",
                    "dsId": 0,
                    "dsName": "Name of DS",
                    "location": 1,
                    "type": 2,
                    "id": 1
                },
                {
                    "name": "Camera Name",
                    "dsId": 0,
                    "dsName": "Name of DS",
                    "location": 4,
                    "type": 1,
                    "id": 1
                }
            ],
            "customPosList": [],
            "id": 11,
            "isDefault": true,
            "name": "Default"
        }
    ]
},
"success": true
}
```

2.3.38.2 Save method

Save layout inforamtion into VisualStation

Request

Parameter	Value	Description	Availability
id	<Integer>	The DS ID of the VisualStation.	1 and onward
vsId	<Integer>	ID of VisualStation.	1 and onward
name	<string>	*Optional*. Name of VisualStation.	1 and onward
canGrpId	<Integer>	*Optional*. camera Group Id. -1: normal camera. otherwise, camera group.	1 and onward
isDefault	<Integer>	This layout is default or not. 0: false 1: true	1 and onward
isFixAspectRatio	<Integer>	*Optional*. This layout is FixAspectRatio or not. 0: false 1: true	1 and onward
layoutType	<Integer>	Channel number of layout type. 1: SYNO.SS.Layout.Def.TYPE_1. 4: SYNO.SS.Layout.Def.TYPE_4. 6: SYNO.SS.Layout.Def.TYPE_6 9: SYNO.SS.Layout.Def.TYPE_9. 10: SYNO.SS.Layout.Def.TYPE_10. 13: SYNO.SS.Layout.Def.TYPE_13. 14: SYNO.SS.Layout.Def.TYPE_13_B. 16: SYNO.SS.Layout.Def.TYPE_16. 25: SYNO.SS.Layout.Def.TYPE_25. 36: SYNO.SS.Layout.Def.TYPE_36. 49: SYNO.SS.Layout.Def.TYPE_49. 64: SYNO.SS.Layout.Def.TYPE_64. -2: SYNO.SS.Layout.Def.TYPE_CAMERA_GROUP. 0: SYNO.SS.Layout.Def.TYPE_SEQUENCE	1 and onward
channelList	Array of <channelList Object>	Channel information list of this layout.	1 and onward
customPosList	<string>	*Optional*. Customized channel display information of layout.	1 and onward

<channelList Object**>** definition

Key	Value	Description	Availability
location	<integer>	Camera location in layout.	1 and onward
itemType	<Integer>	Item type in layout. 0: ITEM_TYPE_CAM	1 and onward

		1: ITEM_TYPE_EMAP 2: ITEM_TYPE_DOOR 3: ITEM_TYPE_CAMGRP	
camId	<Integer>	Camera ID.	1 and onward
camName	<string>	Name of the camera.	1 and onward
regionId	<Integer>	Region ID of the fisheye camera.0: for other kinds of camera.other than 0, The region ID of the fisheye camera.	1 and onward
dsId	<Integer>	The DS ID of the camera.	1 and onward
dsName	<string>	The DS name of the camera.	1 and onward
mountId	<Integer>	Mounted ID of the camera.0: Not mounted cameraother than, mounted ID.	1 and onward
regionName	<string>	Region name of the fisheye camera.	1 and onward
fisheyeType	<Integer>	Type of fisheye. 0: no fisheye other than 0: one of vendor	1 and onward
regionType	<Integer>	Type of fisheye region. -1: FISHEYE_REGION_NOT_REGION 0: FISHEYE_REGION_TYPE_REGION 1: FISHEYE_REGION_TYPE_PANORAMA 2: FISHEYE_REGION_TYPE_DOUBLE_PANORAMA 3: FISHEYE_REGION_TYPE_TRIPLE_VIEW 4: FISHEYE_REGION_TYPE_QUAD_VIEW 5: FISHEYE_REGION_TYPE_SUB_REGION 6: FISHEYE_REGION_TYPE_SUB_PANORAMA 7: FISHEYE_REGION_TYPE_CNT	1 and onward
resolution	<string>	The resolution of the camera.	1 and onward
id	<Integer>	The ID of the camera.	1 and onward
name	<string>	The name of the camera.	1 and onward
type	<Integer>	The type of the camera. 0: VS_LCT_UNKNOWN 1: VS_LCT_CAMERA 2: VS_LCT_EMAP	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?name="Layout Name"&channelList=[{"itemType": 0, "regionId":
0, "dsName": "....", "dsId": 0, "id": 1, "regionName": "", "camId": 1, "name": "VisualStation Name", "type":
1, "regionType": -1, "mountId": 0, "camName": "Camera Name", "location": 5, "fisheyeType": 0,
"resolution": "640x480"}, {"itemType": 1, "regionId": 0, "dsName": "....", "dsId": 0, "id": 1, "regionName":
"", "camId": 1, "name": "VisualStation Name", "type": 2, "regionType": 5, "mountId": 0, "camName":
"Camera Name", "location": 10, "fisheyeType": 1, "resolution":
"640x480"}]&customPosList="0,0,1,1,1,0,2,1,2,0,0,0,0,1,1,1,1,1,1,1,2,1,1,1"&vsId=8&method="Save"&api="
SYNO.SurveillanceStation.VisualStation.Layout"&isFixAspectRatio=1&version="1"&layoutType=25&id=0&is
Default=1&camGrpId=-1
```

Response

Key	Value	Description	Availability
id	<Integer>	The saved layout ID.	1 and onward

success	<boolean>	Successful or not.	1 and onward

Example:

```
{
"data": {
   "id": 12,
   "success": true
},
"success": true
}
```

2.3.38.3 Delete method

Delete specific Layout of VisualStation.

Request

Parameter	Value	Description	Availability
id	<string>	The deleted ID list of layout.	1 and onward
vsId	<integer>	The VisualStation ID of the layout.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
method="Delete"&api="SYNO.SurveillanceStation.VisualStation"&version="1"&vslists="7,9"
```

Response

Key	Value	Description	Availability
newDefLayoutId	<integer>	New default layout ID.	1 and onward
success	<boolean>	Successful or not.	1 and onward

Example:

```
{
"data": {
   "newDefLayoutId": 0,
   "success": true
},
"success": true
}
```

2.3.38.4 API Error Code

Code	Description
100	Unknown error.
418	The VisualStation ID does not exist.

2.3.39 SYNO.SurveillanceStation.VisualStation.Search

This API provides method to query event information.

API Name	Version	Availability
SYNO.SurveillanceStation.VisualStation.Search	1	Surveillance Station 6.0-2337

Method Name	Section	Availability
Start	2.3.11.1	1 and onward
SearchIP	2.3.39.2	1 and onward
Stop	2.3.39.3	1 and onward
InfoGet	2.3.39.4	1 and onward

2.3.39.1 Start method

Clear previous search result and check avaliable visualstation.

Request

No parameter is required.

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.VisualStation.Search"&version="1"&method="Start"
```

Response

Key	Value	Description	Availability
success	<boolean>	Success or not.	1 and onward

Example:

```
{
"data": {
   "success": true
},
"success": true
}
```

2.3.39.2 SearchIP method

Get specific VisualStation Information by IP address.

Request

Parameter	Value	Description	Availability
ip	<string>	IP address of the VisualStation.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
ip="10.13.13.71"&api="SYNO.SurveillanceStation.VisualStation.Search"&version="1"&method="SearchIP"
```

Response

Key	Value	Description	Availability
vsInfo	Array of <vsList Object>	Information of this VisualStation.	1 and onward
success	<boolean>	If the action of delete succuess.	1 and onward

<vsList Object> definition:

Key	Value	Description	Availability
capFlags	<integer>	VisualStation capability. 0: FLAG_VS_CAP_NONE 1: FLAG_VS_CAP_TIMEZONE	1 and onward
dhcp	<boolean>	Point out that IP address of this VisualStation is assigned by dhcp or not.	1 and onward
gateway	<string>	Gateway address of this VisualStation.	1 and onward
ip	<string>	IP address of this VisualStation.	1 and onward
lock	<boolean>	VisualStation is locked or not.	1 and onward
macAddr	<string>	MAC address of this VisualStation.	1 and onward
mask	<string>	Netmask of this VisualStation.	1 and onward
maxch	<integer>	Maximum channel number of this VisualStation.	1 and onward
name	<string>	Name of this VisualStation.	1 and onward
platform	<string>	Platform of this VisualStation.	1 and onward
version	<string>	Version of this VisualStation.	1 and onward

Example:

```
{
"data": {
    "vsInfo": {
        "lock": true,
        "capFlags": 0,
        "maxch": 36,
        "gateway": "10.13.15.254",
        "macAddr": "FE:A5:1D:7E:C0:7B",
        "name": "VisualStation Name",
        "mask": "255.255.240.0",
        "platform": "VS240HD",
        "version": "2.1-1291",
        "ip": "10.13.13.71",
        "dhcp": false
    },
    "success": true
},
"success": true
}
```

2.3.39.3 Stop method

Clear previous search result and check avaliable visualstation.

Request

No parameter is required.

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.VisualStation.Search"&version="1"&method="Start"
```

Response

Key	Value	Description	Availability
success	<boolean>	Success or not.	1 and onward

Example:

```
{
"data": {
    "success": true
},
"success": true
}
```

2.3.39.4 InfoGet method

Get VisualStation information List and indexed by offset.

Request

Parameter	Value	Description	Availability
offset	<integer>	*Optional.* The offset of visualstation list.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
method="InfoGet"&api="SYNO.SurveillanceStation.VisualStation.Search"&version="1"&offset=0
```

Response

Parameter	Value	Description	Availability
vsList	Array of <vsList Object>	The offset of visualstation list.	1 and onward
success	<boolean>	Success or not.	1 and onward

Example:

```
{
"data": {
   "success": true,
   "vsList": [
      {
         "lock": false,
         "capFlags": 0,
         "maxch": 36,
         "gateway": "10.13.15.254",
         "macAddr": "00:11:32:1A:48:DC",
         "name": "VisualStation Name",
         "mask": "255.255.240.0",
         "platform": "VS240HD",
         "version": "2.1-1270",
         "ip": "10.13.13.76",
         "dhcp": true
      },
      {
         "lock": true,
         "capFlags": 0,
         "maxch": 36,
         "gateway": "10.13.15.254",
            "macAddr": "00:11:32:1A:EA:C5",
            "name": "VisualStation Name",
            "mask": "255.255.240.0",
            "platform": "VS240HD",
            "version": "2.0-1252",
            "ip": "10.13.11.211",
            "dhcp": true
        },
        {
            "lock": true,
            "capFlags": 0,
            "maxch": 36,
            "gateway": "10.13.15.254",
            "macAddr": "00:11:32:1A:48:FA",
            "name": "VisualStation Name",
            "mask": "255.255.240.0",
            "platform": "VS240HD",
            "version": "2.1-1279",
            "ip": "10.13.13.106",
            "dhcp": true
        },
        {
            "lock": true,
            "capFlags": 0,
            "maxch": 36,
            "gateway": "10.13.15.254",
            "macAddr": "00:11:32:1C:96:4B",
            "name": "VisualStation Name",
            "mask": "255.255.240.0",
            "platform": "VS240HD",
            "version": "2.1-1290",
            "ip": "10.13.11.187",
            "dhcp": false
        },
        {
            "lock": true,
            "capFlags": 0,
            "maxch": 36,
            "gateway": "10.13.15.254",
            "macAddr": "00:11:32:1A:49:01",
            "name": "VisualStation Name",
            "mask": "255.255.240.0",
            "platform": "VS240HD",
            "version": "2.1-1291",
            "ip": "10.13.11.1",
            "dhcp": true
        },
        {
            "lock": true,
            "capFlags": 0,
            "maxch": 36,
            "gateway": "10.13.15.254",
            "macAddr": "00:11:32:1A:48:F6",
            "name": "VisualStation Name",
            "mask": "255.255.240.0",
            "platform": "VS240HD",
            "version": "2.0-1233",
            "ip": "10.13.13.85",
            "dhcp": true
        },
        {
            "lock": false,
            "capFlags": 0,
            "maxch": 36,
            "gateway": "10.13.15.254",
            "macAddr": "E6:81:13:66:8C:58",
            "name": "VisualStation Name",
            "mask": "255.255.240.0",
            "platform": "VS240HD",
            "version": "2.1-1291",
            "ip": "10.13.11.217",
            "dhcp": true
        },
        {
            "lock": true,
            "capFlags": 0,
            "maxch": 36,
            "gateway": "10.13.15.254",
            "macAddr": "FE:A5:1D:7E:C0:7B",
            "name": "VisualStation Name",
            "mask": "255.255.240.0",
            "platform": "VS240HD",
            "version": "2.1-1291",
            "ip": "10.13.13.71",
            "dhcp": false
        },
        {
            "lock": false,
            "capFlags": 0,
            "maxch": 36,
            "gateway": "10.13.15.254",
            "macAddr": "86:F1:FF:5E:4C:A5",
            "name": "VisualStation Name",
            "mask": "255.255.240.0",
            "platform": "VS240HD",
            "version": "2.1-1291",
            "ip": "10.13.1.63",
            "dhcp": false
        },
        {
            "lock": false,
            "capFlags": 1,
            "maxch": 9,
            "gateway": "10.13.15.254",
            "macAddr": "00:11:32:05:C2:BF",
            "name": "VisualStation Name",
            "mask": "255.255.240.0",
            "platform": "VS60",
            "version": "1.2-0145",
            "ip": "10.13.13.211",
            "dhcp": true
        }
    ]
},
"success": true
}
```

2.3.39.5 API Error Code

Code	Description
100	Unknown error.
417	Test Connection Error.

2.3.40 SYNO.SurveillanceStation.AxisAcsCtrler

This API provides several methods to access controller information, include enumerate/modify/delete/add controller related members in SurveillanceStation, and some sync action to modify data in controller device.

Name	Version	Availability
SYNO.SurveillanceStation.AxisAcsCtrler	1	Surveillance Station 7.0

Method Name	Section	Availability
GetUpdateInfo	2.3.40.1	4 and onward
CountByCategoryCardHolder	2.3.40.2	4 and onward
EnumLogConfig	2.3.40.3	4 and onward
GetCardholderPhoto	2.3.40.4	4 and onward
CountByCategoryLog	2.3.40.5	4 and onward
EnumCardHolder	2.3.40.6	4 and onward
RetrieveLastCard	2.3.40.7	4 and onward
EnableCtrler	2.3.40.8	4 and onward
AckAlarm	2.3.40.9	4 and onward
SaveLogConfig	2.3.40.10	4 and onward
Save	2.3.40.11	4 and onward
DownloadLog	2.3.40.12	4 and onward
GetDoorNames	2.3.40.13	4 and onward
TestConnect	2.3.40.14	4 and onward
Enum	2.3.40.15	4 and onward
SaveCardHolder	2.3.40.16	4 and onward
ListDoor	2.3.40.17	4 and onward
ClearLog	2.3.40.18	4 and onward
DoorControl	2.3.40.19	4 and onward
SavePrivilege	2.3.40.20	4 and onward
ListPrivilege	2.3.40.21	4 and onward
ListLog	2.3.40.22	4 and onward
Delete	2.3.40.23	4 and onward
Retrieve	2.3.40.24	4 and onward
BlockCardHolder	2.3.40.25	4 and onward
CountByCategory	2.3.40.26	4 and onward

2.3.40.1 GetUpdateInfo method

Get number of controller need to retrieve.

Request

This method specifies no parameters.

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.AxisAcsCtrler"&version="1"&method="GetUpdateInfo"
```

Response

Key	Value	Description	Availability
data	<NeedToRetriveCnt Object>	Controller need to retrieve count data.	4 and onward

<NeedToRetriveCnt Object> definition:

Key	Value	Description	Availability
newUpdateCnt	<integer>	Number of controller need to retrieve.	1 and onward

Example:

```
{
   "data": {
      "newUpdateCnt": 0
   }
}
```

2.3.40.2 CountByCategoryCardHolder method

Get cardholder count of all categories.

Request

Parameter	Value	Description	Availability
filterKeyword	<string>	*Optional*. Cardholders information keyword filter string.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.AxisAcsCtrler"&version="1"&filterKeyword="Jack"&method="CountByCateg
oryCardHolder"
```

Response

Key	Value	Description	Availability
data	<CardholderCategCnt Object>	Cardholder count of all categories.	4 and onward

<CardholderCategCnt Object> definition:

Key	Value	Description	Availability
ctrler_id	<CntByCtrlerId Object>	Cardholer count of controller category.	4 and onward
status	<CardholderCntByStatus Object>	Cardholer count of status category.	4 and onward
total	<integer>	Id of source DS.	4 and onward

<CntByCtrlerId Object> definition:

Key	Value	Description	Availability
-1	<integer>	Element count of all controllers.	4 and onward
X	<integer>	Element count of specific controller, X is controller ID.	4 and onward

<CardholderCategCnt Object> definition:

Key	Value	Description	Availability
-1	<integer>	Cardholder count of all status.	4 and onward
0	<integer>	Cardholder count of normal status.	4 and onward
1	<integer>	Cardholder count of expired status.	4 and onward
2	<integer>	Cardholder count of blocked status.	4 and onward

Example:

```
{
    "data": {
        "status": {
            "1": 1,
            "0": 0,
            "2": 0,
            "-1": 1
        },
        "total": 1,
        "ctrler_id": {
            "91": 1,
            "-1": 1
        }
    }
}
```

2.3.40.3 EnumLogConfig method

Enumerate all controllers logger configuration, for example, individual event to be logged or not.

Request

This method specifies no parameter.

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.AxisAcsCtrler"&version="1"&method="EnumLogConfig"
```

Response

Key	Value	Description	Availability
data	<LogConfigEnum Object>	All controller logger settings.	4 and onward

<LogConfigEnum> definition:

Key	Value	Description	Availability
data	Array of <LogConfigData Object>	Logger configuration of each controller.	4 and onward
total	<integer>	Total count of controller's logger configurations in this data.	4 and onward
timestamp	<integer>	UTC timestamp for current system time.	4 and onward

<LogConfigData Object> definition:

Key	Value	Description	Availability
id	<integer>	Logger configuration of each controller.	4 and onward
log_alarm	<string>	Total count of controller's logger configurations in this data.	4 and onward
log_evt	<string>	UTC timestamp for current system time.	4 and onward

Example:

```
{
    "data": {
        "total": 1,
        "data": [
            {
                "log_evt": "11111111111111111111111111111111111111",
                "id": 97,
                "log_alarm": "11111111111111111111111111111111111111"
            }
        ]
    }
}
```

2.3.40.4 GetCardholderPhoto method

Get cardholder photo, the response of this request is image binary data.

Request

Parameter	Value	Description	Availability
photo_name	<string>	Cardholder photo name.	4 and onward
isRedirectCgi	<boolean>	Set ture if this request is redirect from host server. For redirect request, recording server will encode image data to base64 string and send back to host server after that host server will decode back to binary image.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.AxisAcsCtrler"&photo_name="axisacsctrler_0_596.jpeg"&version="1"&met
```

```
hod="GetCardholderPhoto"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.40.5 CountByCategoryLog method

Get log count of all categories.

Request

Parameter	Value	Description	Availability
start	<integer>	*Optional*. Offset of logs for database selection, used for log list partial enumeration.	4 and onward
limit	<integer>	*Optional*. Limitation of log number for database selection, used for log list partial enumeration.	4 and onward
filterType	0, 1, 2	*Optional*. Filter type of log level. • 0: All types • 1: Event level • 2: Alarm level	4 and onward
filterEventSource	-1, 0, 1	*Optional*. Filter type of event source. • -1: All event source • 0: Controller events • 1: Door events	4 and onward
filterSource	<integer>	*Optional*. Controller ID of log source, used to select all logs of specific controller, 0 means all controllers.	4 and onward
filterEventSourceItem	<string>	*Optional*. List of door/controller ID separated by commas, combined with filterEventSource to select all logs of specific door/controller.	4 and onward
filterTimeFrom	<integer>	*Optional*. UTC unix timestamp, used to select all logs later than this timestamp from database, 0 means no filter.	4 and onward
filterTimeTo	<integer>	*Optional*. UTC unix timestamp, used to select all logs earlier than this timestamp from database, 0 means no filter.	4 and onward
filterKeyword	<string>	*Optional*. Logs information keyword filter string.	4 and onward
timezoneOffset	<integer>	*Optional*. Minutes of timezone offset from UTC.	4 and onward

doorIds	<string>	*Optional*. List of door ID separated by commas, used to filter all logs from these doors.	4 and onward
eventTypes	<string>	*Optional*. List of event type separated by commas, used to filter all logs from these types, see LogEnumData for all event type enumeration.	4 and onward
update	<integer>	*Optional*. UTC unix timestamp, used to find out all updated logs after this timestamp.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
filterEventSource=1&filterEventSourceItem="225"&version="1"&filterTimeTo=1424019600&doorIds="15,2
4"&filterTimeFrom=1424016000&filterType=1&filterKeyword="Jack"&start=0&api="SYNO.SurveillanceStati
on.AxisAcsCtrler"&limit=0&eventTypes="1,2,3,4"&filterSource=91&method="CountByCategoryLog"&timez
oneOffset=480
```

Response

Key	Value	Description	Availability
data	<LogCategCnt Object>	Total number of export task.	4 and onward

<LogCategCnt Object> definition:

Key	Value	Description	Availability
ctrler_id	<CntByCtrlerId Object>	Id of export task.	4 and onward
date	<LogCntByData Object>	Name of export task.	4 and onward
log_level	<LogCntByLevel Object>	Id of source DS.	4 and onward
total	<integer>	Id of destination DS.	4 and onward

<LogCntByData Object> definition:

Key	Value	Description	Availability
-1	integer	Log count of all dates.	4 and onward
YYYY/MM/DD	<CntByHalfDate Object>	Log count in specific date. YYYY: 4 digit of years MM: 2 digit of month DD: 2 digit of day	4 and onward

<LogCntByLevel Object> definition:

Key	Value	Description	Availability
-1	<integer>	Log count of all log level.	4 and onward
1	<integer>	Log count of event level.	4 and onward
2	<integer>	Log count of alarm level.	4 and onward

<CntByHalfDate Object> definition:

Key	Value	Description	Availability

-1	<integer>	Log count of specific day.	4 and onward
am	<integer>	Log count of specific day before midday.	4 and onward
pm	<integer>	Log count of specific day post midday.	4 and onward

Example:

```
{
    "data": {
        "date": {
            "2015/02/16": {
                "am": 420,
                "-1": 842,
                "pm": 422
            },
            "-1": 842
        },
        "total": 842,
        "log_level": {
            "1": 628,
            "2": 214,
            "-1": 842
        },
        "ctrler_id": {
            "91": 842,
            "-1": 842
        }
    }
}
```

2.3.40.6 EnumCardHolder method

Enumerate cardholder list information.

Request

Parameter	Value	Description	Availability
start	<integer>	*Optional*. Offset of cardholder for database selection, used for cardholder list partial enumeration.	4 and onward
limit	<integer>	*Optional*. Limitation of cardholder number for database selection, used for cardholder list partial enumeration.	4 and onward
filterKeyword	<string>	*Optional*. Cardholders information keyword filter string.	4 and onward
filterStatus	<integer>	*Optional*. Cardholders status filter. 0: Normal	4 and onward

		1: Expired 2: Blocked	
filterCtrlerId	<integer>	*Optional*. Controller ID filter, used to enumerate specific controller.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
version="1"&filterKeyword="5"&start=0&api="SYNO.SurveillanceStation.AxisAcsCtrler"&limit=100&filterSt
atus=0&filterCtrlerId=95&method="EnumCardHolder"
```

Response

Key	Value	Description	Availability
data	<CardholderEnum Object>	Cardholder list information data.	4 and onward

<CardholderEnum Onject> definition:

Key	Value	Description	Availability
data	Array of <CardholderData Object>	Cardholder data, include name, blocked or not, valid time, etc.	4 and onward
total	<integer >	Total count of cardholders in this data.	4 and onward
timestamp	<integer>	UTC timestamp for current system time.	4 and onward

<CardholderData Onject> definition:

Key	Value	Description	Availability
blocked	<boolean>	If this cardholder is blocked.	4 and onward
card_num	<string>	Cardholder's credential numbers.	4 and onward
card_raw	<string>	Cardholder's original credential hex numbers.	4 and onward
card_token	<string>	Cardholder's serial numbers in controller.	4 and onward
ctrler_id	<integer>	Controller ID.	4 and onward
enable_valid_from	<boolean>	If this cardholder has valid from time bound.	4 and onward
enable_valid_until	<boolean>	If this cardholder has valid until time bound.	4 and onward
first_name	<string>	First name of this cardholder.	4 and onward
grp_id	<integer>	Peer connection group, controllers with the same grp_id are peer connected, except 0 means no peered controller.	4 and onward
id	<integer>	Cardholder ID.	4 and onward
last_access	<integer>	UTC timestamp of last access time.	4 and onward
last_name	<string>	Last name of this cardholder.	4 and onward
name	<string>	Full name of this cardholder.	4 and onward
photo_height	<integer>	Cardholder photo height.	4 and onward
photo_name	<string>	Cardholder photo name.	4 and onward
photo_tmstmp	<integer>	UTC timestamp of photo update time.	4 and onward
photo_width	<integer>	Cardholder photo width.	4 and onward
pin	<string>	Cardholder's personal identification number.	4 and onward
status	<integer>	Credential status of cardholder.	4 and onward

		0: Normal 1: Expired 2: Blocked	
valid_from	<integer >	Local unix timestamp of controller current timezone for credential start time.	4 and onward
valid_until	<integer>	Local unix timestamp of controller current timezone for credential end time.	4 and onward

Example:

```
{
    "data": {
        "total": 1,
        "data": [
            {
                "grp_id": 0,
                "status": 0,
                "first_name": "5",
                "card_num": "",
                "photo_name": "",
                "name": "5",
                "pin": "5555",
                "enable_valid_from": false,
                "enable_valid_until": false,
                "photo_width": 0,
                "valid_until": 0,
                "last_access": 0,
                "last_name": "",
                "ctrler_id": 97,
                "photo_tmstmp": 0,
                "card_raw": "",
                "card_token": "Axis-accc8e09c884:1422856613.833141000",
                "valid_from": 0,
                "id": 600,
                "photo_height": 0,
                "blocked": false
            }
        ]
    }
}
```

2.3.40.7 RetrieveLastCard method

Retrieve last access credential data from controller.

Request

Parameter	Value	Description	Availability
ctrlerId	<integer>	Controller ID.	4 and onward

idPtId	<integer>	IdPoint ID, used to get specific identification point information.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
idPtId=113&api="SYNO.SurveillanceStation.AxisAcsCtrler"&ctrlerId=97&version="1"&method="RetrieveLas
tCard"
```

Response

Key	Value	Description	Availability
data	<CardData Object>	Last request for access credential data of the specific IdPoint.	4 and onward

<CardData Object> definition:

Key	Value	Description	Availability
card_num	<string>	Cardholder's credential numbers.	4 and onward
card_raw	<string>	Cardholder's original credential hex numbers.	4 and onward

Example:

```
{
   "data": {
      "card_raw": "12a456exf456f",
      "card_num": "123456879"
   }
}
```

2.3.40.8 EnableCtrler method

Enable/disable controllers.

Request

Parameter	Value	Description	Availability
blEnable	<boolean>	Decide enable or disable controller. true: Enable false: Disable	4 and onward
arrayJson	<string>	String array of enable/disable cardholder ID.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
arrayJson="[93]"&method="EnableCtrler"&api="SYNO.SurveillanceStation.AxisAcsCtrler"&version="1"&blE
nable=false
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.40.9 AckAlarm method

Acknowledge all alarm level filtered logs, this action will modify log level to event in SurveillanceStation and delete alarm logs in controller.

Request

Parameter	Value	Description	Availability
start	<integer>	*Optional*. Offset of logs for database selection, used for log list partial enumeration.	4 and onward
limit	<integer>	*Optional*. Limitation of log number for database selection, used for log list partial enumeration.	4 and onward
filterEventSource	-1, 0, 1	*Optional*. Filter type of event source. • -1: All event source • 0: Controller events • 1: Door events	4 and onward
filterSource	<integer>	*Optional*. Controller ID of log source, used to select all logs of specific controller, 0 means all controllers.	4 and onward
filterEventSourceItem	<string>	*Optional*. List of door/controller ID separated by commas, combined with filterEventSource to select all logs of specific door/controller.	4 and onward
filterTimeFrom	<integer>	*Optional*. UTC unix timestamp, used to select all logs later than this timestamp from database, 0 means no filter.	4 and onward
filterTimeTo	<integer>	*Optional*. UTC unix timestamp, used to select all logs earlier than this timestamp from database, 0 means no filter.	4 and onward
filterKeyword	<string>	*Optional*. Logs information keyword filter string.	4 and onward
doorIds	<string>	*Optional*. List of door ID separated by commas, used to filter all logs from these doors.	4 and onward
eventTypes	<string>	*Optional*. List of event type separated by commas, used to filter all logs from these types, see LogEnumData for all event type enumeration.	4 and onward
update	<integer>	*Optional*.	4 and onward

		UTC unix timestamp, used to find out all updated logs after this timestamp.	

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.AxisAcsCtrler"&filterTimeFrom=1424836800&version="1"&filterTimeTo=14
24880000&method="AckAlarm"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.40.10 SaveLogConfig method

Modify controller logger configuration for each event.

Request

Parameter	Value	Description	Availability
data	<LogConfigData Object>	Logger configuration of controller.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?api="SYNO.SurveillanceStation.AxisAcsCtrler"&data={"log_evt":
"1111111111111111111111111111111111111111", "id": 97, "log_alarm":
"0011111111111111111111111111111111111111"}&version="1"&method="SaveLogConfig"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.40.11 Save method

Save controller settings, include name, id, enabled/disabled, pair camera, hardware configuration, etc.

Request

Parameter	Value	Description	Availability
arrayJson	<string>	Controller settings Json format string, this string is a Json object array contain all settings below. enable: Boolean, true to enable controller id: Int, controller ID, 0 for new controller	4and onward

		name: String, controller name host: String, controller ip address port: Int, controller port number model: String, controller model name username: String, controller user-name for authentication password: String, controller password for authentication time_server: String, controller ntp time server time_zone: String, timezone city door: Object array, door information (id, name, enable_cam) and paired camera settings (cam_id, cam_ds_id)	

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
arrayJson="[{\"enable\":true,\"id\":97,\"name\":\"ctrler1\",\"host\":\"10.13.12.173\",\"port\":80,\"model
\":\"A1001\",\"username\":\"root\",\"password\":\"Q__Q-__-\",\"time_server\":\"Surveillance
Station\",\"time_zone\":\"Fiji\",\"door\":[{\"id\":231,\"name\":\"Front
Door\",\"enable_cam\":true,\"cam_ds_id\":0,\"cam_id\":13}]}]"&api="SYNO.SurveillanceStation.AxisAcsCt
rler"&version="1"&method="Save"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.40.12 DownloadLog method

Download filtered logs, the response of this request is a html table list all filtered logs.

Request

Parameter	Value	Description	Availability
start	<integer>	*Optional*. Offset of logs for database selection, used for log list partial enumeration.	4 and onward
limit	<integer>	*Optional*. Limitation of log number for database selection, used for log list partial enumeration.	4 and onward
filterType	0, 1, 2	*Optional*. Filter type of log level. • 0: All types • 1: Event level • 2: Alarm level	4 and onward
filterEventSource	-1, 0, 1	*Optional*. Filter type of event source. • -1: All event source	4 and onward

		• 0: Controller events • 1: Door events	
filterSource	<integer>	*Optional*. Controller ID of log source, used to select all logs of specific controller, 0 means all controllers.	4 and onward
filterEventSourceItem	<string>	*Optional*. List of door/controller ID separated by commas, combined with filterEventSource to select all logs of specific door/controller.	4 and onward
filterTimeFrom	<integer>	*Optional*. UTC unix timestamp, used to select all logs later than this timestamp from database, 0 means no filter.	4 and onward
filterTimeTo	<integer>	*Optional*. UTC unix timestamp, used to select all logs earlier than this timestamp from database, 0 means no filter.	4 and onward
filterKeyword	<string>	*Optional*. Logs information keyword filter string.	4 and onward
doorIds	<string>	*Optional*. List of door ID separated by commas, used to filter all logs from these doors.	4 and onward
eventTypes	<string>	*Optional*. List of event type separated by commas, used to filter all logs from these types, see LogEnumData for all event type enumeration.	4 and onward
update	<integer>	*Optional*. UTC unix timestamp, used to find out all updated logs after this timestamp.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.AxisAcsCtrler"&filterTimeFrom=1424836800&version="1"&filterTimeTo=14
24880000&method="DownloadLog"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.40.13 GetDoorNames method

List door name from controller device.

Request

Parameter	Value	Description	Availability

ctrlerId	<integer>	Controller ID, set 0 for new controller.	4 and onward
ip	<string>	IP address .	4 and onward
port	<integer>	Port bumber.	4 and onward
userName	<string>	Controller user-name for authentication.	4 and onward
password	<string>	Controller password for authentication.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
userName="root"&version="1"&ip="10.13.12.17"&ctrlerId=97&method="GetDoorNames"&api="SYNO.Sur
veillanceStation.AxisAcsCtrler"&password="Q__Q-__-"&port=80
```

Response

Key	Value	Description	Availability
Data	<DoorNames Object>	Door name list from controller.	1 and onward

<DoorNames Object> definition:

Key	Value	Description	Availability
count	<integer>	Number of door in controller.	1 and onward
doors	Array of <string>	Array of door name from controller.	1 and onward

Example:

```
{
   "data": {
      "count": 2,
      "doors": [
         "Door1",
         "Door2"
      ]
   }
}
```

2.3.40.14 TestConnect method

Test connection and authentication of controller.

Request

Parameter	Value	Description	Availability
ctrlerId	<integer>	Controller ID, set 0 for new controller.	4 and onward
ip	<string>	IP address .	4 and onward
port	<integer>	Port bumber.	4 and onward
userName	<string>	Controller user-name for authentication.	4 and onward
password	<string>	Controller password for authentication.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
userName="root"&version="1"&ip="10.13.12.173"&ctrlerId=97&method="TestConnect"&api="SYNO.Surve
illanceStation.AxisAcsCtrler"&password="Q__Q-__-"&port=80
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.40.15 Enum method

Enumerate controller list information.

Request

Parameter	Value	Description	Availability
start	<integer>	*Optional*. Offset of controllers for database selection, used for controller list partial enumeration.	4 and onward
limit	<integer>	*Optional*. Limitation of controller number for database selection, used for controller list partial enumeration.	4 and onward
update	<integer>	*Optional*. UTC unix timestamp, used to find out all updated controller after this timestamp.	4 and onward
blIncludeRecCnt	<boolean>	*Optional*. Set true to append controller category count in the return data.	4 and onward
blIncludeAuInfo	<boolean>	*Optional*. Set true to append deleted controller ID after update timestamp in the return data.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
start=0&api="SYNO.SurveillanceStation.AxisAcsCtrler"&limit=100&version="1"&method="Enum"
```

Response

Key	Value	Description	Availability
data	<CtrlerEnum Object>	Controller list information data.	4 and onward

<CtrlerEnum Object> definition:

Key	Value	Description	Availability
data	Array of <CtrlerData Object>	Controller data, include host, name, port, etc.	4 and onward

total	<integer>	Total count of controllers in this data.	4 and onward
auInfo	<AutoUpdateInfo Object>	Auto update information include deleted controllers.	4 and onward
recCntData	<AutoUpdateRecordCnt Object>	Controller count of all category.	4 and onward
timestamp	<integer>	UTC timestamp for current system time.	4 and onward

<CtrlerData Object> definition:

Key	Value	Description	Availability
door	Array of <DoorData Object>	Door data, include name, pair cam info, id, etc.	4 and onward
enable	<boolean>	Show if controller enabled.	4 and onward
grp_id	<integer>	Peer connection group, controllers with the same grp_id are peer connected, except 0 means no peered controller.	4 and onward
host	<string>	Controller ip address.	4 and onward
id	<integer>	Controller ID.	4 and onward
idpoint	Array of <idPointData Object>	Identification point data, include in/out, reader/rex, door name, etc.	4 and onward
mac_addr	<string>	Controller MAC address.	4 and onward
model	<string>	Controller model.	4 and onward
name	<string>	Controller name.	4 and onward
need_to_retrieve	<integer>	Controller retrieve status. 0: No need to retrieve 1: Need to retrieve 2: Retrieving	4 and onward
notifyschedule	<string>	List of half-hour notification schedule for a week separated by commas, each half-hour schedule is a hex number of bitwise notify options. 0x01: Controller alarm logged 0x02: Casing open 0x7FF: Select all above	4 and onward
password	<string>	Controller dummy password.	4 and onward
port	<integer>	Controller port number.	4 and onward
retrieve_progress	<integer>	Retrieve progress percentage, used when controller is retrieving.	4 and onward
status	<integer>	Controller status. 0: Normal 1: Disconnected 2: Disabled 3: Deleted 4: Unknown 5: Incompatible	4 and onward
time_server	<string>	Network time server.	4 and onward
time_zone	<string>	City of the timezone.	4 and onward
username	<string>	Controller user-name for authentication.	4 and onward
update_time	<integer>	UTC timestamp for last controller update time.	4 and onward

<DoorData Object> definition:

Key	Value	Description	Availability
cam_ds_id	<integer>	Paired camera server ID, 0 means local ds ID.	4 and onward
cam_id	<integer>	Paired camera ID in local ds.	4 and onward
cam_id_on_server	<integer>	Paired camera ID in recording server, used only when camera is on recording server.	4 and onward
ctrler_id	<integer>	Controller ID of this door.	4 and onward
enable_cam	<boolean>	True if this door has paired camera.	4 and onward
id	<integer>	Door ID.	4 and onward
name	<string>	Door name.	4 and onward
notifyschedule	<string>	List of half-hour notification schedule for a week separated by commas, each half-hour schedule is a hex number of bitwise notify options. 0x01: Connection lost 0x02: Connection resume 0x04: Access granted 0x08: Access denied 0x10: Alarm detected 0x20: Tampering 0x7FF: Select all above	4 and onward
status	<integer>	Door status construct by bitwise door, lock, and alarm status. 0x00000: Status unknown 0x00001: Normal 0x00002: Physical open 0x00004: Physical close 0x00008: Locked 0x00010: Double locked 0x00020: Access 0x00040: Unlock 0x00080: Lock down 0x00100: Lock open 0x00200: Blocked 0x00400: Long open warning 0x00800: Open too long alarm 0x01000: Force open alarm 0x02000: Tampering 0x04000: Fault 0x08000: Disconnected 0x10000: Disabled 0x20000: Incompatible	4 and onward

<idPointData Object> definition:

Key	Value	Description	Availability
ctrler_id	<integer>	Controller ID.	4 and onward
direction	<integer>	Direction. 0: In 1: Out	4 and onward
door_id	<integer>	Door ID.	4 and onward
door_name	<string>	Door name.	
id	<integer>	ID of this identification point.	4 and onward

type	<integer>	Device type. 0: Reader 1: Rex (Request to Exit)	4 and onward

<AutoUpdataInfo Object> definition:

Key	Value	Description	Availability
deleteByRecordId	<AutoUpdataDeleteDate Object>	Deleted element data.	4 and onward
timestamp	<integer>	UTC timestamp of current ds time.	4 and onward

<AutoUpdataDeleteDate Object> definition:

Key	Value	Description	Availability
data	Array of <DeletedElement Object>	Deleted element data.	4 and onward

< DeletedElement Object> definition:

Key	Value	Description	Availability
id	string	Deleted element ID string.	4 and onward

<AutoUpdateRecordCnt Object> definition:

Key	Value	Description	Availability
recCnt	<AutoUpdateRecordCntData Object>	Element count of category.	4 and onward
total	<integer>	Number of element in recCnt.	4 and onward

<AutoUpdateRecordCntData Object> definition:

Key	Value	Description	Availability
status	<CtrlerCntByStatus Object>	Controller count of status category, used for controller auto update.	4 and onward
ctrler_id	<CntByCtrlerId Object>	Log count of controller category, used for log auto update.	4 and onward
date	<LogCntByData Object>	Log count of date category, used for log auto update.	4 and onward
log_level	<LogCntByLevel Object>	Log count of log level category, used for log auto update.	4 and onward

<CtrlerCntByStatus Object> definition:

Key	Value	Description	Availability
-1	<integer>	Controller count of all status.	4 and onward
0	<integer>	Controller count of normal status.	4 and onward
1	<integer>	Controller count of disconnected status.	4 and onward
2	<integer>	Controller count of disable status.	4 and onward
4	<integer>	Controller count of others status.	4 and onward

Example:

```
{
    "data": {
        "total": 1,
        "data": [
            {
                "status": 0,
                "username": "root",
                "update_time": 1424139223,
                "enable": true,
                "door": [
                    {
                        "cam_ds_id": 0,
                        "status": 4160,
                        "name": "Door",
                        "notifyschedule":
"7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF
,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF
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,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF
,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF",
                        "cam_id_on_server": 13,
                        "cam_id": 13,
                        "ctrler_id": 94,
                        "id": 228,
                        "enable_cam": true
                    }
                ],
                "name": "controller",
                "grp_id": 0,
                "need_to_retrieve": 0,
                "time_server": "Surveillance Station",
                "time_zone": "Fiji",
                "port": 80,
                "host": "10.13.11.9",
                "mac_addr": "AC:CC:8E:25:13:C9",
                "notifyschedule":
"7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF
,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF
,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF
,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF
,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF
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,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF
,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF
,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF
,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF,7FF",
                "idpoint": [
                    {
                        "direction": 0,
                        "door_name": "Door",
                        "ctrler_id": 94,
                        "type": 0,
                        "id": 107,
                        "door_id": 228
                    }
                ],
                "model": "A1001",
                "password": "Q__Q-__-",
                "id": 94,
                "retrieve_progress": 0
            }
        ]
    }
}
```

2.3.40.16 SaveCardHolder method

Save cardholder settings, include name, credential, photo, controller ID, photo information, etc.

Request

Parameter	Value	Description	Availability
arrayJson	<string >	Cardholder settings Json format string, this string is a Json object array contain all settings below. first_name: String, carholder first name last_name: String, carholder last name pin: String, personal identification number of credential card_num: String, card number of credential card_raw: String, original card hex number of credential enable_valid_from: Boolean, true to set credential start time valid_from: Int, local timestamp in controller timezone of credential start time enable_valid_until: Boolean, true to set credential end time valid_until: Int, local timestamp in controller	4 and onward

		timezone of credential end time del_photo: Boolean, set true to delete cardholder photo id: Int, ID of this cardholder, read only ctrler_id: Int, controller ID of this cardholder, read only grp_id: Int, Controller group ID, 0 means no peer connected controllers, read only photo: String, photo binary base64 encode string, used only when adding an new photo photo_width: Int, photo width, used only when adding an new photo photo_height: Int, photo height, used only when adding an new photo blocked: Boolean, current cardholder blocked status, read only	

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
arrayJson="[{\"first_name\":\"Cardholder1\",\"last_name\":\"\",\"pin\":\"1111\",\"card_num\":\"\",\"card
_raw\":\"\",\"enable_valid_from\":false,\"valid_from\":1423612800,\"enable_valid_until\":true,\"valid_un
til\":1423699199,\"del_photo\":true,\"id\":596,\"ctrler_id\":97,\"grp_id\":0,\"last_access\":0,\"name\":\"
Cardholder1\",\"photo_name\":\"axisacsctrler_0_596.jpeg\",\"photo_width\":640,\"photo_height\":480,\
"photo_tmstmp\":1424847027,\"blocked\":true,\"status\":2}]"&api="SYNO.SurveillanceStation.AxisAcsCtrl
er"&version="1"&method="SaveCardHolder"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.40.17 ListDoor method

Enumerate door information.

Request

Parameter	Value	Description	Availability
DoorIds	<string>	*Optional*. List of door ID separated by commas.	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
doorIds="15,24"&api="SYNO.SurveillanceStation.AxisAcsCtrler"&version="1"&method="ListDoor"
```

Response

Key	Value	Description	Availability

data	Array of <DoorData Object>	Door data, include name, pair cam info, id, etc.	1 and onward

<exporttask_info> definition:

Key	Value	Description	Availability
id	<integer>	Id of export task.	1 and onward
name	<string>	Name of export task.	1 and onward
srcDsId	<integer>	Id of source DS.	1 and onward
dstDsId	<integer>	Id of destination DS.	1 and onward
dstdir	<string>	Directory of destination.	1 and onward
start_time	<integer>	Start time of event.	1 and onward
stop_time	<integer>	Stop time of event.	1 and onward
status	<integer>	Status of export task.	1 and onward
total_count	<integer>	Total count number of events.	1 and onward

Example:

```
{
    "exporttask": [
        {
            "status": 0,
            "srcDsId": 0,
            "exported_count": 1,
            "start_time": 1425398400,
            "name": "asdf",
            "dstdir": "test",
            "total_count": 30,
            "dstDsId": 0,
            "id": 5,
            "stop_time": 1425484800
        }
    ],
    "evtexptotal": 1
}
```

2.3.40.18 ClearLog method

Delete controller logs in SurveillanceStation, this action will not delete logs in controller.

Request

Parameter	Value	Description	Availability
filterType	0, 1, 2	*Optional*. Filter type of log level. • 0: All types • 1: Event level • 2: Alarm level	4 and onward

filterEventSource	-1, 0, 1	*Optional*. Filter type of event source. • -1: All event source • 0: Controller events • 1: Door events	4 and onward
filterSource	<integer>	*Optional*. Controller ID of log source, used to select all logs of specific controller, 0 means all controllers.	4 and onward
filterEventSourceItem	<string>	*Optional*. List of door/controller ID separated by commas, combined with filterEventSource to select all logs of specific door/controller.	4 and onward
filterTimeFrom	<integer>	*Optional*. UTC unix timestamp, used to select all logs later than this timestamp from database, 0 means no filter.	4 and onward
filterTimeTo	<integer>	*Optional*. UTC unix timestamp, used to select all logs earlier than this timestamp from database, 0 means no filter.	4 and onward
filterKeyword	<string>	*Optional*. Logs information keyword filter string.	4 and onward
doorIds	<string>	*Optional*. List of door ID separated by commas, used to filter all logs from these doors.	4 and onward
eventTypes	<string>	*Optional*. List of event type separated by commas, used to filter all logs from these types, see LogEnumData for all event type enumeration.	4 and onward
update	<integer>	*Optional*. UTC unix timestamp, used to find out all updated logs after this timestamp.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.AxisAcsCtrler"&filterTimeFrom=1424836800&version="1"&filterTimeTo=14
24880000&method="ClearLog"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.40.19 ListPrivilege method

List all SurveillanceStation user privilege for each door.

Request

This method specifies no paremeters

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.AxisAcsCtrler"&version="1"&method="ListPrivilege"
```

Response

Key	Value	Description	Availability
data	<DoorPrivEnum Object>	List all user privilege of door authentication and manual lock ability.	4 and onward

<DoorPrivEnum Object> definition:

Key	Value	Description	Availability
data	Array of <DoorPrivEnumData Object>	Array of door privilege data.	4 and onward
total	<integer>	Total count of door privilege in this data.	4 and onward
timestamp	<integer>	UTC timestamp for current system time.	4 and onward

<DoorPrivEnumData Object> definition:

Key	Value	Description	Availability
authorized	<boolean>	Authorized or not, include ability to realize the door and view logs.	4 and onward
door_id	<integer>	Door ID.	4 and onward
id	<string>	Data ID, construct by uid and door_iD.	4 and onward
manual_lock	<boolean>	Has manual lock ability of authorized user.	4 and onward
uid	<integer>	User ID.	4 and onward

Example:

```
{
    "data": {
        "total": 4,
        "data": [
            {
                "id": "1026_231",
                "manual_lock": true,
                "uid": 1026,
                "authorized": true,
                "door_id": 231
            }
        ]
    }
}
```

2.3.40.20 DoorControl method

Manual lock operation for specific door.

Request

Parameter	Value	Description	Availability
doorId	<integer>	Door ID.	4 and onward
operation	<integer>	Door lock operation. 0: Lock door 1: Unlock door 2: Access door	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
doorId=5&operation=1&api="SYNO.SurveillanceStation.AxisAcsCtrler"&version="1"&method="DoorControl
"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.40.21 SavePrivilege method

Save SurveillanceStation user's door privilege settings.

Request

Parameter	Value	Description	Availability
arrayJson	<string>	Door privilege settings Json format string, this string is a Json object array contain all settings below. uid: Int, SurveillanceStation user ID door_id: Int, door ID authorized: Boolean, ability to realize the door and view logs manual_lock: Boolean, manual lock ability of authorized user	1 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
arrayJson="[{\"id\":\"1027_231\",\"uid\":1027,\"door_id\":231,\"authorized\":false,\"manual_lock\":false}
]"&api="SYNO.SurveillanceStation.AxisAcsCtrler"&version="1"&method="SavePrivilege"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.40.22 ListLog method

List all logs.

Request

Parameter	Value	Description	Availability
start	<integer>	*Optional*. Offset of logs for database selection, used for log list partial enumeration.	4 and onward
limit	<integer>	*Optional*. Limitation of log number for database selection, used for log list partial enumeration.	4 and onward
filterType	0, 1, 2	*Optional*. Filter type of log level. • 0: All types • 1: Event level • 2: Alarm level	4 and onward
filterEventSource	-1, 0, 1	*Optional*. Filter type of event source. • -1: All event source • 0: Controller events • 1: Door events	4 and onward
filterSource	<integer>	*Optional*. Controller ID of log source, used to select all logs of specific controller, 0 means all controllers.	4 and onward
filterEventSourceItem	<string>	*Optional*. List of door/controller ID separated by commas, combined with filterEventSource to select all logs of specific door/controller.	4 and onward
filterTimeFrom	<integer>	*Optional*. UTC unix timestamp, used to select all logs later than this timestamp from database, 0 means no filter.	4 and onward
filterTimeTo	<integer>	*Optional*. UTC unix timestamp, used to select all logs earlier than this timestamp from database, 0 means no filter.	4 and onward
filterKeyword	<string>	*Optional*. Logs information keyword filter string.	4 and onward
timezoneOffset	<integer>	*Optional*. Minutes of timezone offset from UTC.	4 and onward
doorIds	<string>	*Optional*. List of door ID separated by commas, used to filter all logs from these doors.	4 and onward
eventTypes	<string>	*Optional*.	4 and onward

		List of event type separated by commas, used to filter all logs from these types, see LogEnumData for all event type enumeration.	
update	<integer>	*Optional*. UTC unix timestamp, used to find out all updated logs after this timestamp.	4 and onward
blIncludeRecCnt	<boolean>	*Optional*. Set true to append log category count in the return data.	4 and onward
blIncludeAuInfo	<boolean>	*Optional*. Set true to append log category count in the return data.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
filterEventSource=1&filterEventSourceItem="225"&version="1"&filterTimeTo=1424019600&doorIds="15,2
4"&filterTimeFrom=1424016000&filterType=1&filterKeyword="Jack"&start=0&api="SYNO.SurveillanceStati
on.AxisAcsCtrler"&limit=1&filterSource=91&eventTypes="1,2,3,45"&method="ListLog"
```

Response

Key	Value	Description	Availability
data	<LogEnum Object>	Log list information.	4 and onward

<LogEnum Object> definition:

Key	Value	Description	Availability
data	Array of <LogEnumData Object>	Array of log information.	4 and onward
total	<integer>	Total count of logs in this data.	4 and onward
auInfo	Array of <AutoUpdateInfo Object>	Auto update information include deleted logs.	4 and onward
recCntData	Array of <AutoUpdateRecordCnt Object>	log count of all category.	4 and onward
timestamp	<integer>	UTC timestamp for current system time.	4 and onward

<LogEnumData Object> definition:

Key	Value	Description	Availability
cam_ds_id	<integer>	Paired camera server ID, 0 means local ds ID, used only when event has playback ability (event source from Door/IdPoint/AccessPoint).	4 and onward
cam_id	<integer>	Camera ID, used only when event has playback ability (event source from Door/IdPoint/AccessPoint).	4 and onward
cam_id_on_serve	<integer>	Camera ID on recording server, used only when	4 and onward

r		event has playback ability (event source from Door/IdPoint/AccessPoint) and camera is from recording server.	
ctrler_id	<integer>	Controller ID.	4 and onward
evt_grp	<integer>	Event group type of this event. 0: Unknown 1: Access Control 2: Access Point 3: Configuration 4: Device 5: Door 6: Logger 7: Identification Point 8: Schedule 9: User Defined Schedule 10: Execute By SurveillanceStation	4 and onward
evt_type	<integer>	Event type of this event. 0: Unknown 1: Access Granted 2: Access Taken 3: Access Not Taken 4: Access Denied 5: Access Duress 6: Access Point Enabled 7: Access Point Disabled 8: Configuration Area Modify 9: Configuration Area Delete 10: Configuration Door Modify 11: Configuration Door Delete 12: Configuration Access Point Modify 13: Configuration Access Point Delete 14: Configuration Identification Point Modify 15: Configuration Identification Point Delete 16: Device Casing Open 17: Device Casing Close 18: Device IO Digital Input Active 19: Device IO Digital Input Normal 20: Device IO Virtual Input Active 21: Device IO Virtual Input Normal 22: Device Network Lost 23: Device Network Restore 24: Device Peer Connection Established 25: Device Peer Connection Lost 26: Device Peer Connection Failed 27: Device System Ready 28: Device System Unready 29: Device Action Failed 30: Door Alarm 31: Door Mode 32: Door Physical Status 33: Door Warning 34: Door Tampering	4 and onward

		35: Logger Alarm 36: Logger Drop Event 37: Logger Drop Alarm 38: Identification Point Active 39: Identification Point Send Card Request For Authenticate 40: Identification Point Send PIN Request For Authenticate 41: Identification Point Send Rex Request For Authenticate 42: Identification Point Tamper Active 43: Identification Point Tamper Normal 44: Identification Point Request Wait PIN Timeout 45: Schedule Interval Begin 46: Schedule Interval End 47: Schedule Pulse 48: User Defined Schedule Interval Begin 49: User Defined Schedule Interval End 50: User Defined Schedule Pulse 51: Manual Lock 52: Manual Access 53: Manual Unlock 54: Hardware Auto Retrieve 55: Door Added By Controller Retrieve 56: Door Deleted By Controller Retrieve 57: Cardholder Added By Controller Retrieve 58: Cardholder Deleted By Controller Retrieve	
id	<integer>	Log ID.	4 and onward
log_level	<integer>	Emergency level of this log. 1: Event 2: Alarm	4 and onward
owner_direct	<integer>	Direction of element that caused this event, used only when owner_type is IdPoint or AccessPoint. 0: In 1: Out	4 and onward
owner_id	<integer>	ID of element that caused this event, combined with owner_type to specify element.	4 and onward
owner_idpt_type	<integer>	Device type of element that caused this event, used only when owner_type is IdPoint. 0: Reader 1: Rex (Request to Exit)	4 and onward
owner_info	<OwnerInfo Object>	External owner information.	4 and onward
owner_name	<string>	Name of the element that caused this event.	4 and onward
owner_type	<integer>	Element type that caused this event. 0: Unknown 1: SurveillanceStation User 2: Cardholder 3: Access Schedule 4: Event Schedule (Used Defined Schedule)	4 and onward

		5: Controller 6: Door 7: AccessPoint 8: IdPoint	
photo_height	<integer>	Photo height.	4 and onward
photo_name	<string>	Photo name of event owner.	4 and onward
photo_tmstmp	<integer>	Photo update UTC timestamp.	4 and onward
photo_width	<integer>	Photo width.	4 and onward
playback	<boolean>	If this event is possible to have camera video playback (have pair camera info).	4 and onward
src_direct	<integer>	Direction of source place of this event, used only when src_type is IdPoint or AccessPoint. 0: In 1: Out	4 and onward
src_id	<integer>	ID of source place of this event, combined with src_type to specify element.	4 and onward
src_idpt_type	<integer>	Device type of source place of this event, used only when src_type is IdPoint. 0: Reader 1: Rex (Request to Exit)	4 and onward
src_name	<string>	Name of source place of this event.	4 and onward
src_type	<integer>	Element type of source place of this event. 0: Unknown 5: Controller 6: Door 7: AccessPoint 8: IdPoint	4 and onward
tmstmp	<integer>	UTC unix timestamp of when this event happen.	4 and onward
update_time	<integer>	UTC unix timestamp of when this event retrieved by SurveillanceStation.	4 and onward

<OwnerInfo Object> definition:

Key	Value	Description	Availability
port	<integer>	Port number of IO, external information of device io event.	4 and onward
interface	<string>	Network interface, external information of device network event.	4 and onward
mac_addr	<string>	Controller MAC address, external information of device peer connection event.	4 and onward
description	<string>	Description of event, external information of device action failed event.	4 and onward
status	<integer>	Door status, external information of door event, see DoorData for more information.	4 and onward
Category	<string>	Event group name, external information of logger alarm event.	4 and onward
log_num	<integer>	Log number, external information of logger drop event/alarm.	4 and onward
Reason	<string>	Reason of event, external information of IdPoint tamper/active/timeout event.	4 and onward
Action	<string>	Action of authentication request, external	4 and onward

		information of IdPoint Card/PIN/REX request event.	
PIN	<string>	Personal identification number, external information of IdPoint PIN request event.	4 and onward
REX	<string>	Active or not, external information of IdPoint REX request event.	4 and onward
Card	<string>	Card number, external information of IdPoint Card request event.	4 and onward

Example:

```
{
    "data": {
        "total": 1,
        "data": [
            {
                "photo_width": 0,
                "src_idpt_type": 1,
                "owner_direct": 0,
                "owner_info": {},
                "photo_tmstmp": 0,
                "id": 7327,
                "photo_name": "Anonymous",
                "owner_idpt_type": 0,
                "playback": false,
                "ctrler_id": 97,
                "src_type": 5,
                "photo_height": 0,
                "owner_id": 0,
                "owner_name": "Office hours (Example)",
                "src_direct": 0,
                "tmstmp": 1424768400,
                "log_level": 2,
                "src_name": "ctrler",
                "src_id": 97,
                "evt_type": 45,
                "evt_grp": 8,
                "owner_type": 3
            }
        ]
    }
}
```

2.3.40.23 Delete method

Delete select controllers.

Request

Parameter	Value	Description	Availability
ids	<string>	Array string of select controller IDs.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.AxisAcsCtrler"&ids="[91]"&version="1"&method="Delete"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.40.24 Retrieve method

Retrieve data from controller, include cardholders, hardware configuration, logger configuration.

Request

Parameter	Value	Description	Availability
ctrlerId	<integer>	Controller ID for retrieve action.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.AxisAcsCtrler"&ctrlerId=97&version="1"&method="Retrieve"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.40.25 BlockCardHolder method

Blocked cardholders to suspend their credential in controller, these cardholders can't access the door until unblocked.

Request

Parameter	Value	Description	Availability
arrayJson	<string>	String array of block/unblock cardholder ID.	4 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
arrayJson="[576,577,578]"&api="SYNO.SurveillanceStation.AxisAcsCtrler"&version="1"&method="BlockCar
dHolder"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.40.26 CountByCategory method

Get controller count of all categories.

Request

This method specifies no parameter.

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.AxisAcsCtrler"&version="1"&method="CountByCategory"
```

Response

Key	Value	Description	Availability
data	<CtrlerCategCnt Object>	Controller count of all categories.	4 and onward

<CtrlerCategCnt Object> definition:

Key	Value	Description	Availability
status	<CtrlerCntByStatus Object>	Controller count of status category.	4 and onward
total	<integer>	Total count of all controllers.	4 and onward

Example:

```
{
   "data": {
      "status": {
         "1": 0,
         "0": 1,
         "2": 0,
         "-1": 1,
         "4": 0
      },
      "total": 1
   }
}
```

2.3.40.27 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.
402	Camera disabled.
403	Insufficient license.
404	Codec acitvation failed

2.3.41 SYNO.SurveillanceStation.AxisAcsCtrler.Search

This API provides start and get result method for controller upnp search.

Name	Version	Availability
SYNO.SurveillanceStation.AxisAcsCtrler.Search	1	Surveillance Station 7.0

Method Name	Section	Availability
Start	2.3.42.1	1 and onward
InfoGet	2.3.41.2	1 and onward

2.3.41.1 Start method

Start controller search and keep searching for 60 seconds.

Request

No parameter is required.

Example:

```
GET /webapi/entry.cgi?api="SYNO.SurveillanceStation.AxisAcsCtrler.Search"&version="1"&method="Start"
```

Response

Key	Value	Description	Availability
data	<SearchPid>	Controller search process information.	1 and onward

<SearchPid> definition:

Key	Value	Description	Availability
pid	<integer>	Controller search process ID, used as a parameter to get search result by InfoGet action.	1 and onward

Example:

```
{
    "data": {
        "pid": 10017
    }
}
```

2.3.41.2 InfoGet method

Get controller search result, pid is from Start request.

Request

Parameter	Value	Description	Availability
pid	<integer>	*Required*. The selected camera id.	1 and onward
offset	<integer>	*Optional*. Search result data offset, used to skip old result. If parameter is not specified, the default value will be 0.	1 and onward

Example:

```
GET /webapi/entry.cgi?
method="InfoGet"&api="SYNO.SurveillanceStation.AxisAcsCtrler.Search"&pid=10017&version="1"&offset=
0
```

Response

Key	Value	Description	Availability
data	<SearchResult>	Controller search result data.	1 and onward

<SearchPid> definition:

Key	Value	Description	Availability
alive	<boolean>	Controller search process ID, used as a parameter to get search result by InfoGet action.	1 and onward
ctrlers	Array of <CtrlerDeviceInfo>	Controller device information, include IP, port, MAC address, model, and vendor.	1 and onward

<SearchPid> definition:

Key	Value	Description	Availability
ip	<string>	Controller IP address.	1 and onward
mac	<string>	Controller MAC address.	1 and onward
model	<string>	Controller model name.	1 and onward
port	<integer>	Controller port number.	1 and onward
vendor	<string>	Controller vendor name.	1 and onward

Example:

```
{
    "data": {
        "ctrlers": [
            {
                "ip": "10.13.12.173",
                "mac": "AC:CC:8E:09:C8:84",
                "vendor": "AXIS",
                "model": "AXIS A1001",
                "port": 80
            }
        ],
        "alive": true
    }
}
```

2.3.41.3 API Error Code

Code	Description
400	Execution failed.

2.3.42 SYNO.SurveillanceStation.DigitalOutput

Digital output related WebAPI. e.g. Enumerate parameters and Long polling for current state and Save parameters.

Name	Version	Availability
SYNO.SurveillanceStation.DigitalOutput	1	Surveillance Station 7.0

Method Name	Section	Availability
Enum	2.3.42.1	1 and onward
Save	2.3.42.2	1 and onward
PollState	2.3.42.3	1 and onward

2.3.42.1 Enum method

Enumerate digital output parameters. e.g. keep setting, normal state, current state and trigger button toggle state.

Request

Parameter	Value	Description	Availability
camId	<integer>	*Required*. The selected camera id.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.DigitalOutput"&camId=280&version="1"&method="Enum"
```

Response

Key	Value	Description	Availability
list	Array of <list>	The digital output parameters in array list.	1 and onward

<list> definition:

Key	Value	Description	Availability
idx	<integer>	The digital output index.	1 and onward
keep_setting	<boolean>	Define the keep the camera original setting.	1 and onward
normal_state	<integer>	Define the camera normal state.	1 and onward
current_state	<integer>	Define the camera current state.	1 and onward
trigger_state	<boolean>	Define the trigger button toggle state.	1 and onward

Example:

```
{
    "list": [
        {
            "trigger_state": true,
            "current_state": 1,
            "keep_setting": true,
            "idx": 0,
            "normal_state": 0
        }
    ]
}
```

2.3.42.2 Save method

Save digital output parameters. e.g. keep setting, normal state and trigger state.

Request

Parameter	Value	Description	Availability
camId	<integer>	*Required*. The selected camera id.	1 and onward
idx	<integer>	*Required*. The selected digital output index.	1 and onward
keep_setting	<boolean>	*Required*. Define the keep the camera original setting.	1 and onward
normal_state	<integer>	*Required*. Define the camera normal state.	1 and onward
trigger_state	<boolean>	*Required*. Define the trigger button toggle state.	1 and onward

Example:

```
GET /webapi/entry.cgi?
camId=280&trigger_state=false&version="1"&idx=0&keep_setting=true&api="SYNO.SurveillanceStation.Di
gitalOutput"&method="Save"&normal_state=1
```

Response

Key	Value	Description	Availability
camId	<integer>	The selected camera id .	1 and onward

Example:

```
{
    "camId": 280
}
```

2.3.42.3 PollState method

Long polling digital output status. e.g. current state.

Request

Parameter	Value	Description	Availability
camId	<integer>	The selected camera id.	1 and onward
idx	<integer>	The selected digital output index.	1 and onward
keep	<boolean>	Define the keep the camera original setting.	1 and onward
setNormalCap	<boolean>	Define the setting camera normal state capability.	1 and onward
normal	<integer>	Define the camera normal state.	1 and onward
trigger	<boolean>	Define the trigger button toggle state.	1 and onward
timeOut	<integer>	Define the max waiting time.	1 and onward

Example:

```
GET /webapi/entry.cgi?
version="1"&camId=280&timeOut=5000&idx=0&normal=1&api="SYNO.SurveillanceStation.DigitalOutput"
&trigger=false&setNormalCap=true&method="PollState"&keep=true
```

Response

Key	Value	Description	Availability
current_state	<integer>	The camera current state.	1 and onward

Example:

```
{
   "current_state": 0
}
```

2.3.42.4 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.
402	Camera disabled.

2.3.43 SYNO.SurveillanceStation.ExternalEvent

External event related WebAPI. The method “Trigger” is implemented.

Name	Version	Availability
SYNO.SurveillanceStation.ExternalEvent	1	Surveillance Station 7.0

Method Name	Section	Availability
Trigger	2.3.43.1	1 and onward

2.3.43.1 Trigger method

Trigger the external event specified by eventId with event name specified by eventName.

Request

Parameter	Value	Description	Availability
eventId	<integer>	*Required*. ID of the to-be-triggered external event.	1 and onward
eventName	<string>	*Optional.* Name of the to-be-triggered external event.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.ExternalEvent"&eventId=1&version="1"&method="Trigger"
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.43.2 API Error Code

Code	Description
401	Parameter invalid.

2.3.44 SYNO.SurveillanceStation.IOModule

This API provides a set of methods to acquire IO module-related information and to enable/disable IO modules.

API Name	Version	Availability
SYNO.SurveillanceStation.IOModule	1	Surveillance Station 7.1

Method Name	Section	Availability
Enum	2.3.44.1	1 and onward
EnumPort	2.3.44.2	1 and onward
EnumVendorModel	2.3.44.3	1 and onward
Save	2.3.44.4	1 and onward
Enable	2.3.44.5	1 and onward
Disable	2.3.44.6	1 and onward
Delete	2.3.44.7	1 and onward
TestConn	2.3.44.8	1 and onward
GetCap	2.3.44.9	1 and onward
PortSetting	2.3.44.10	1 and onward
PollingDI	2.3.44.11	1 and onward
PollingDO	2.3.44.12	1 and onward
GetDevNumOfDs	2.3.44.13	1 and onward
CountByCategory	2.3.44.14	1 and onward

2.3.44.1 Enum method

Get the list of all IO modules.

Request

Parameter	Value	Description	Availability
start	<integer>	*Optional*. The offset to be shifted in the total result. If not specified, the offset will be 0.	1 and onward
limit	<integer>	*Optional*. Number of IO modules to be returned. If not specified, return IO modules to the end of IO module list.	1 and onward
blFromList	<boolean>	*Optional* Indicating if the caller is from IO module list Set to be *false* if not specified.	1 and onward
ownerDsId	<integer>	*Optional*. The owner DS ID of I/O port.	1 and onward

Example:

```
GET /webapi/entry.cgi?
start=0&limit=50&blFromList=true&api=SYNO.SurveillanceStation.IOModule&method=Enum&version=1
```

Response

Key	Value	Description	Availability
keyUsedCnt	<integer>	The number of total installed devices.	1 and onward
localTotalCnt	<integer>	The number of local total installed IO modules.	1 and onward
modules	Array of <IO module List Object>	The list of queried IO modules.	1 and onward

<IO module List Object> definition:

Key	Value	Description	Availability
DONum	<integer>	Digital output number	1 and onward
DINum	<integer>	Digital input number	1 and onward
IONum	<integer>	Digital changeable IO port number	1 and onward
id	<integer>	IO module ID	1 and onward
enabled	<boolean>	Whether the IO module is enabled	1 and onward
name	<string>	Name of IO module	1 and onward
vendor	<string>	Vendor name of IO module	1 and onward
model	<string>	Model name of IO module	1 and onward
hostname	<string>	Hostname of IO module	1 and onward
port	<integer>	Connection port of IO module	1 and onward
username	<string>	User name of IO module	1 and onward
update_time	<integer>	The last update time in timestamp	1 and onward
owner_ds_id	<integer>	The ID of the owner of this IO module	1 and onward
id_on_rec_server	<integer>	The ID of IO module on the owner DS	1 and onward
status_flags	<integer>	Flags of the IO module status	1 and onward
status_on_rec_server	<integer>	IO module status on the owner DS	1 and onward
status	<integer>	IO module status	1 and onward
io_list	Array of <IO list Object>	The digital I/O parameters in array list.	1 and onward
multiDI	<boolean>	Whether the IO module supports multiple input detection	1 and onward
setDICap	<boolean>	Whether the IO module supports digital input normal state setting	1 and onward
setDOCap	<boolean>	Whether the IO module supports digital output normal state setting	1 and onward
enable_ntp	<boolean>	Whether the IO module enables NTP	1 and onward
time_server	<string>	NTP time server of the IO module	1 and onward

<IO list Object> definition:

Key	Value	Description	Availability
idx	<integer>	The digital I/O index.	1 and onward
keep_setting	<boolean>	Define the keep the original setting.	1 and onward
normal_state	<integer>	Define the I/O normal state.	1 and onward

current_state	<integer>	Define the current I/O state.	1 and onward
trigger_state	<boolean>	Define the trigger button toggle state.	1 and onward
io_type	0,1,2,3	I/O type • 0: Unknown • 1: Digital ouput • 2: Audio • 3: Digital input	1 and onward
name	<string>	The I/O port name	1 and onward

Example:

```
{
        "data": {
                "keyUsedCnt": 2,
                "localTotalCnt": 0,
                "modules": [{
                        "DINum": 8,
                        "DONum": 7,
                        "IONum": 0,
                        "cap_file_path": "",
                        "enable_ntp": false,
                        "enabled": true,
                        "hostname": "10.13.12.185",
                        "id": 10,
                        "id_on_rec_server": 1,
                        "io_list": [{
                                "current_state": 0,
                                "idx": 0,
                                "io_type": 3,
                                "keep_setting": false,
                                "name": "IO Port 1",
                                "normal_state": 0,
                                "trigger_state": false
                        },
                        {
                                "current_state": 0,
                                "idx": 1,
                                "io_type": 3,
                                "keep_setting": false,
                                "name": "IO Port 2",
                "normal_state": 0,
                "trigger_state": false
            },
            {
                "current_state": 0,
                "idx": 2,
                "io_type": 3,
                "keep_setting": false,
                "name": "IO Port 3",
                "normal_state": 0,
                "trigger_state": false
            },
            {
                "current_state": 0,
                "idx": 3,
                "io_type": 3,
                "keep_setting": false,
                "name": "IO Port 4",
                "normal_state": 0,
                "trigger_state": false
            },
            {
                "current_state": 0,
                "idx": 4,
                "io_type": 3,
                "keep_setting": false,
                "name": "IO Port 5",
                "normal_state": 0,
                "trigger_state": false
            },
            {
                "current_state": 0,
                "idx": 5,
                "io_type": 3,
                "keep_setting": false,
                "name": "IO Port 6",
                "normal_state": 0,
                "trigger_state": false
            },
            {
                "current_state": 0,
                "idx": 6,
                "io_type": 3,
                "keep_setting": false,
                "name": "IO Port 7",
                "normal_state": 0,
                "trigger_state": false
            },
            {
                "current_state": 0,
                "idx": 7,
                "io_type": 3,
                "keep_setting": false,
                "name": "IO Port 8",
                "normal_state": 0,
                "trigger_state": false
            },
            {
                "current_state": 0,
                "idx": 8,
                "io_type": 1,
                "keep_setting": false,
                "name": "IO Port 9",
                "normal_state": 0,
                "trigger_state": false
            },
            {
                "current_state": 0,
                "idx": 9,
                "io_type": 1,
                "keep_setting": false,
                "name": "IO Port 10",
                "normal_state": 0,
                "trigger_state": false
            },
            {
                "current_state": 0,
                "idx": 10,
                "io_type": 1,
                "keep_setting": false,
                "name": "IO Port 11",
                "normal_state": 0,
                "trigger_state": false
            },
            {
                "current_state": 0,
                "idx": 11,
                "io_type": 1,
                "keep_setting": false,
                "name": "IO Port 12",
                "normal_state": 0,
                "trigger_state": false
            },
            {
                "current_state": 0,
                "idx": 12,
                "io_type": 1,
                "keep_setting": false,
                "name": "IO Port 13",
                "normal_state": 0,
                "trigger_state": false
            },
            {
                "current_state": 0,
                "idx": 13,
                "io_type": 1,
                "keep_setting": false,
                "name": "IO Port 14",
                "normal_state": 0,
                "trigger_state": false
            },
            {
                "current_state": 0,
                "idx": 14,
                "io_type": 1,
                "keep_setting": false,
                "name": "IO Port 15",
                "normal_state": 0,
                "trigger_state": false
            }],
            "is_deleted": false,
            "model": "ADAM-6250",
            "multiDI": true,
            "name": "dwdwd",
            "owner_ds_id": 4,
            "password": "########",
            "path": "",
            "port": 1025,
            "setDICap": true,
            "setDOCap": false,
            "status": 1,
            "status_flags": 0,
            "status_on_rec_server": 1,
            "time_server": "--",
            "update_time": 5,
            "username": "",
            "vendor": "Advantech"
        }]
    },
    "success": true
}
```

2.3.44.2 EnumPort method

Get the IO port list of a specified IO module.

Request

Parameter	Value	Description	Availability
Id	<integer>	IO module ID	1 and onward
Port	<integer>	The connection port of IO module	1 and onward
IP	<string>	The hostname of IO module	1 and onward
User	<string>	The user name of IO module	1 and onward

Pass	<string>	The user password of IO module	1 and onward
Vendor	<string>	The vendor name of IO module	1 and onward
Model	<string>	The model name of IO module	1 and onward

Example:

```
GET /webapi/entry.cgi?Id=11&IP="10.13.12.185"&Port=1025&Vendor="Advantech"&Model="ADAM-6250"&api=SYNO.SurveillanceStation.IOModule&method=EnumPort&version=1
```

Response

Key	Value	Description	Availability
data	Array of < IO list Object>	The digital I/O parameters in array list.	1 and onward

<IO list Object> definition:

Key	Value	Description	Availability
idx	<integer>	The digital I/O index.	1 and onward
keep_setting	<boolean>	Define the keep the original setting.	1 and onward
normal_state	<integer>	Define the I/O normal state.	1 and onward
current_state	<integer>	Define the current I/O state.	1 and onward
trigger_state	<boolean>	Define the trigger button toggle state.	1 and onward
io_type	0,1,2,3	I/O type • 0: Unknown • 1: Digital ouput • 2: Audio • 3: Digital input	1 and onward
name	<string>	The I/O port name	1 and onward

Example:

```
{
        "data": [{
                "current_state": 0,
                "idx": 0,
                "io_type": 3,
                "keep_setting": false,
                "name": "IO Port 1",
                "normal_state": 0,
                "trigger_state": false
        },
        {
                "current_state": 0,
        "idx": 1,
        "io_type": 3,
        "keep_setting": false,
        "name": "IO Port 2",
        "normal_state": 0,
        "trigger_state": false
    },
    {
        "current_state": 0,
        "idx": 2,
        "io_type": 3,
        "keep_setting": false,
        "name": "IO Port 3",
        "normal_state": 0,
        "trigger_state": false
    },
    {
        "current_state": 0,
        "idx": 3,
        "io_type": 3,
        "keep_setting": false,
        "name": "IO Port 4",
        "normal_state": 0,
        "trigger_state": false
    },
    {
        "current_state": 0,
        "idx": 4,
        "io_type": 3,
        "keep_setting": false,
        "name": "IO Port 5",
        "normal_state": 0,
        "trigger_state": false
    },
    {
        "current_state": 0,
        "idx": 5,
        "io_type": 3,
            "keep_setting": false,
            "name": "IO Port 6",
            "normal_state": 0,
            "trigger_state": false
        },
        {
            "current_state": 0,
            "idx": 6,
            "io_type": 3,
            "keep_setting": false,
            "name": "IO Port 7",
            "normal_state": 0,
            "trigger_state": false
        },
        {
            "current_state": 0,
            "idx": 7,
            "io_type": 3,
            "keep_setting": false,
            "name": "IO Port 8",
            "normal_state": 0,
            "trigger_state": false
        },
        {
            "current_state": 0,
            "idx": 8,
            "io_type": 1,
            "keep_setting": false,
            "name": "IO Port 9",
            "normal_state": 0,
            "trigger_state": false
        },
        {
            "current_state": 0,
            "idx": 9,
            "io_type": 1,
            "keep_setting": false,
            "name": "IO Port 10",
            "normal_state": 0,
            "trigger_state": false
        },
        {
            "current_state": 0,
            "idx": 10,
            "io_type": 1,
            "keep_setting": false,
            "name": "IO Port 11",
            "normal_state": 0,
            "trigger_state": false
        },
        {
            "current_state": 0,
            "idx": 11,
            "io_type": 1,
            "keep_setting": false,
            "name": "IO Port 12",
            "normal_state": 0,
            "trigger_state": false
        },
        {
            "current_state": 0,
            "idx": 12,
            "io_type": 1,
            "keep_setting": false,
            "name": "IO Port 13",
            "normal_state": 0,
            "trigger_state": false
        },
        {
            "current_state": 0,
            "idx": 13,
            "io_type": 1,
            "keep_setting": false,
            "name": "IO Port 14",
            "normal_state": 0,
            "trigger_state": false
        },
        {
                "current_state": 0,
                "idx": 14,
                "io_type": 1,
                "keep_setting": false,
                "name": "IO Port 15",
                "normal_state": 0,
                "trigger_state": false
        }],
        "success": true
}
```

2.3.44.3 EnumVendorModel method

Get the supported list of IO modules.

Request

No parameter is required.

Example:

```
GET /webapi/entry.cgi?api=SYNO.SurveillanceStation.IOModule&method=EnumVendorModel&version=1
```

Response

Key	Value	Description	Availability
IOModel	Array of <supported list Object>	The supported list of IO module.	1 and onward

<supported list Object> definition:

Key	Value	Description	Availability
vendor	<string>	The vendor name of IO module	1 and onward
model_no	<string>	The model name of IO module	1 and onward

Example:

```
{
        "data": {
                "IOModel": [{
                        "model_no": "P8221",
                        "vendor": "AXIS"
                },
                {
                        "model_no": "ADAM-6050",
                        "vendor": "Advantech"
                },
                {
                        "model_no": "ADAM-6052",
                        "vendor": "Advantech"
                },
                {
                        "model_no": "ADAM-6250",
                        "vendor": "Advantech"
                },
                {
                        "model_no": "ADAM-6266",
                        "vendor": "Advantech"
                }]
        },
        "success": true
}
```

2.3.44.4 Save method

Save the setting of IO module.

Request

Parameter	Value	Description	Availability
name	<string>	The name of IO module	1 and onward
id	<integer>	IO module ID, 0 means inserting a IO module	1 and onward
ownerDsId	<integer>	The ID of the owner of this IO module	1 and onward
vendor	<string>	The vendor name of IO module	1 and onward
model	<string>	The model name of IO module	1 and onward
ip	<string>	The hostname of IO module	1 and onward
port	<integer>	The connection port of IO module	1 and onward
userName	<string>	The user name of IO module	1 and onward
enabled	<boolean>	Whether the IO module is enabled	1 and onward
status	<integer>	IO module status	1 and onward
timeServer	<string>	NTP time server of IO module	1 and onward
passWord	<string>	The user password of IO module	1 and onward
ntpEnable	<boolean>	Whether the IO module enables NTP	1 and onward
DIOdata	Array of <IO list Object>	The digital I/O parameters in array list.	1 and onward

<IO list Object> definition:

Key	Value	Description	Availability
idx	<integer>	The digital I/O index.	1 and onward
keep	<boolean>	Define the keep the original setting.	1 and onward
normal	<integer>	Define the I/O normal state.	1 and onward
trigger_state	<boolean>	Define the trigger button toggle state.	1 and onward
type	0,1,2,3	I/O type • 0: Unknown • 1: Digital ouput • 2: Audio • 3: Digital input	1 and onward
name	<string>	The I/O port name	1 and onward

Example:

```
GET /webapi/entry.cgi?
ownerDsId=0&id=10&name="dwdwdfwefwewef"&ip="10.13.12.185"&port="1025"&vendor="Advantech"
&model="ADAM-6250"&userName=""&passWord="＃＃＃＃＃＃＃
＃"&enabled="true"&status=0&DIOdata=[{"idx":0,"keep":false,"trigger_state":false,"type":3,"name":"IO
Port 1","normal":0},{"idx":1,"keep":false,"trigger_state":false,"type":3,"name":"IO Port 2","normal":0},
{"idx":2,"keep":false,"trigger_state":false,"type":3,"name":"IO Port 3","normal":0},
{"idx":3,"keep":false,"trigger_state":false,"type":3,"name":"IO Port 4","normal":0},
{"idx":4,"keep":false,"trigger_state":false,"type":3,"name":"IO Port 5","normal":0},
{"idx":5,"keep":false,"trigger_state":false,"type":3,"name":"IO Port 6","normal":0},
{"idx":6,"keep":false,"trigger_state":false,"type":3,"name":"IO Port 7","normal":0},
{"idx":7,"keep":false,"trigger_state":false,"type":3,"name":"IO Port 8","normal":0},
{"idx":8,"keep":false,"trigger_state":false,"type":1,"name":"IO Port 9","normal":0},
{"idx":9,"keep":false,"trigger_state":false,"type":1,"name":"IO Port 10","normal":0},
{"idx":10,"keep":false,"trigger_state":false,"type":1,"name":"IO Port 11","normal":0},
{"idx":11,"keep":false,"trigger_state":false,"type":1,"name":"IO Port 12","normal":0},
{"idx":12,"keep":false,"trigger_state":false,"type":1,"name":"IO Port 13","normal":0},
{"idx":13,"keep":false,"trigger_state":false,"type":1,"name":"IO Port 14","normal":0},
{"idx":14,"keep":false,"trigger_state":false,"type":1,"name":"IO Port
15","normal":0}]&actFromHost=false&ntpEnable=false&timeServer="--"&api=SYNO.SurveillanceStation.IO
Module&method=Save&version=1
```

Response

Key	Value	Description	Availability
id	<integer>	IO module ID	1 and onward
editTime	<integer>	The time of this edit operation	1 and onward

Example:

```
{
        "data": {
                "editTime": 1458555950,
                "id": 10,
                "success": true
        },
        "success": true
}
```

2.3.44.5 Enable method

Activate IO modules.

Request

Parameter	Value	Description	Availability
iomlist	<string>	ID list of IO module	1 and onward

Example:

```
GET /webapi/entry.cgi?
iomlist="10,11"&api=SYNO.SurveillanceStation.IOModule&method=Enable&version=1
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.44.6 Disable method

Deactivate IO modules.

Request

Parameter	Value	Description	Availability
iomlist	<string>	ID list of IO module	1 and onward

Example:

```
GET /webapi/entry.cgi?
iomlist="10,11"&api=SYNO.SurveillanceStation.IOModule&method=Disable&version=1
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.44.7 Delete method

Remove IO modules.

Request

Parameter	Value	Description	Availability
iomlist	<string>	ID list of IO module	1 and onward

Example:

```
GET /webapi/entry.cgi?
iomlist="10,11"&api=SYNO.SurveillanceStation.IOModule&method=Disable&version=1
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.44.8 TestConn method

Test the connection availability to the specified IO module.

Request

Parameter	Value	Description	Availability
id	<integer>	IO module ID	1 and onward
port	<integer>	The connection port of IO module	1 and onward
ip	<string>	The hostname of IO module	1 and onward
userName	<string>	The user name of IO module	1 and onward
passWord	<string>	The user password of IO module	1 and onward
model	<string>	The compounded vendor and model name of IO module	1 and onward

Example:

```
GET /webapi/entry.cgi?id=11&ip="10.13.12.185"&port="1025"&userName=""&passWord="＃＃＃＃＃
＃＃＃"&model="Advantech ADAM-
6250"&api=SYNO.SurveillanceStation.IOModule&method=TestConn&version=1
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.44.9 GetCap method

Get the capability of the specified IO module.

Request

Parameter	Value	Description	Availability
vendor	<string>	The vendor name of IO module	1 and onward
model	<string>	The model name of IO module	1 and onward

Example:

```
GET /webapi/entry.cgi?
vendor="AXIS"&model="P8221"&api=SYNO.SurveillanceStation.IOModule&method=GetCap&version=1
```

Response

Key	Value	Description	Availability
iomoduleCap	Array of <cap list Object>	The capability of IO module in array list.	1 and onward

<cap list Object> definition:

Key	Value	Description	Availability
DONum	<integer>	Digital output number	1 and onward
DINum	<integer>	Digital input number	1 and onward
IONum	<integer>	Digital changeable IO port number	1 and onward
ADCap	<integer>	Audio detection capability	1 and onward
AudioList	<integer>	Audio capability	1 and onward
audioCap	<boolean>	Whether IO module has audio capability	1 and onward
defAudio	<integer>	Default audio codec setting	1 and onward
ChanlList	Array of <channel Object>	The channel name in array list.	1 and onward
cntChanl	<integer>	The channel count	1 and onward
defChanl	<string>	Default channel name	1 and onward
defUser	<string>	Default username of IO module	1 and onward
defPass	<integer>	Default password of IO module	1 and onward
rtspProtocolCap	<integer>	Indicating the supported protocol of RTSP which is bitwise OR of following values • 0: NONE • 1: UDP • 2: TCP • 3: HTTP • 4: Auto	1 and onward
defRtspProtocol	0 … 4	Default RTSP protocol	1 and onward
id	<string>	The compounded vendor and model name of IO module	1 and onward
multiDI	<boolean>	Whether the IO module supports multiple input detection	1 and onward
setDICap	<boolean>	Whether the IO module supports digital input normal state setting	1 and onward
setDOCap	<boolean>	Whether the IO module supports digital output normal state setting	1 and onward
ntpCap	<boolean>	Whether the IO module enables NTP	1 and onward
ntpServerList	Array of <time server Object>	The NTP time server in array list.	1 and onward

<channel Object> definition:

Key	Value	Description	Availability
channel	<string>	The channel number	1 and onward

< time server Object> definition:

Key	Value	Description	Availability
ntpServer	<string>	The NTP time server	1 and onward

Example:

```
{
    "data": {
        "iomoduleCap": [{
            "ADCap": 0,
            "AudioList": 0,
            "ChanlList": [{
                "channel": "1"
            }],
            "DINum": 4,
            "DONum": 4,
            "IONum": 0,
            "audioCap": false,
            "cntChanl": 1,
            "defAudio": 0,
            "defChanl": "1",
            "defPass": "＃＃＃＃＃＃＃＃",
            "defRtspProtocol": 4,
            "defUser": "root",
            "id": "AXIS P8221",
            "multiDI": true,
            "ntpCap": true,
            "ntpServerList": [{
                "ntpServer": "Surveillance Station"
            },
            {
                "ntpServer": "time.nist.gov"
            },
            {
                "ntpServer": "disable"
            }],
            "rtspProtocolCap": 15,
            "setDICap": true,
            "setDOCap": true
        }],
        "success": true
    },
    "success": true
}
```

2.3.44.10 PortSetting method

Configure I/O port setting of IO module.

Request

Parameter	Value	Description	Availability
id	<integer>	IO module ID, 0 means inserting a IO module	1 and onward
DIOdata	Array of <IO list Object>	The digital I/O parameters in array list.	1 and onward

<IO list Object> definition:

Key	Value	Description	Availability
idx	<integer>	The digital I/O index.	1 and onward
keep	<boolean>	Define the keep the original setting.	1 and onward
normal	<integer>	Define the I/O normal state.	1 and onward
trigger_state	<boolean>	Define the trigger button toggle state.	1 and onward
type	0,1,2,3	I/O type • 0: Unknown • 1: Digital ouput • 2: Audio • 3: Digital input	1 and onward
name	<string>	The I/O port name	1 and onward

Example:

```
GET /webapi/entry.cgi?id=10&DIOdata=[{"idx":0,"keep":false,"trigger_state":false,"type":3,"name":"IO
Port 1","normal":0},{"idx":1,"keep":false,"trigger_state":false,"type":3,"name":"IO Port 2","normal":0},
{"idx":2,"keep":false,"trigger_state":false,"type":3,"name":"IO Port 3","normal":0},
{"idx":3,"keep":false,"trigger_state":false,"type":3,"name":"IO Port 4","normal":0},
{"idx":4,"keep":false,"trigger_state":false,"type":3,"name":"IO Port 5","normal":0},
{"idx":5,"keep":false,"trigger_state":false,"type":3,"name":"IO Port 6","normal":0},
{"idx":6,"keep":false,"trigger_state":false,"type":3,"name":"IO Port 7","normal":0},
{"idx":7,"keep":false,"trigger_state":false,"type":3,"name":"IO Port 8","normal":0},
{"idx":8,"keep":false,"trigger_state":false,"type":1,"name":"IO Port 9","normal":0},
{"idx":9,"keep":false,"trigger_state":false,"type":1,"name":"IO Port 10","normal":0},
{"idx":10,"keep":false,"trigger_state":false,"type":1,"name":"IO Port 11","normal":0},
{"idx":11,"keep":false,"trigger_state":false,"type":1,"name":"IO Port 12","normal":0},
{"idx":12,"keep":false,"trigger_state":false,"type":1,"name":"IO Port 13","normal":0},
{"idx":13,"keep":false,"trigger_state":false,"type":1,"name":"IO Port 14","normal":0},
{"idx":14,"keep":false,"trigger_state":false,"type":1,"name":"IO Port
15","normal":0}]&api=SYNO.SurveillanceStation.IOModule&method=PortSetting&version=1
```

Response

This method has no specific response data. It returns an empty success response if it completes without error.

2.3.44.11 PollingDI Method

Poll trigger state of I/O module. When trigger state of I/O module change, this WebAPI return with updated state.

Request

Parameter	Value	Description	Availability
Id	<integer>	*Required*. The selected I/O module id.	1 and onward
list	Array of <IOModule DIStatus Object>	*Required.* Define the I/O module original state.	1 and onward
timeOut	<integer>	*Required.* Define the maximum waiting time for polling I/O module trigger state if no changed.	1 and onward

<IOModuleDIStatus Object> Definition:

Key	Value	Description	Availability
idx	<integer>	The index of I/O port.	1 and onward
trigger	<integer>	The trigger state of this I/O port. e.g. 0:untrigger, 1:triggered.	1 and onward

Example:

```
GET /webapi/entry.cgi?Id=1&list=[{"idx":0,"trigger":1},
{"idx":1,"trigger":0}]&timeOut=10000&api=SYNO.SurveillanceStation.IOModule&method=PollingDI&versio
n=1
```

Response

Key	Value	Description	Availability
list	Array of <IOModuleDIStatus Object>	The updated I/O module DI trigger state list.	1 and onward
success	<boolean>	Webapi success or not.	1 and onward

Example:

```
{
   "data":{
      "list":[
         {
            "idx":0,
            "trigger":1
         },
         {
            "idx":1,
            "trigger":1
         }
      ]
   },
    "success":true
}
```

2.3.44.12 PollingDO Method

Poll DO trigger state of I/O module. Call after PortSetting to check if set port done.

Request

Parameter	Value	Description	Availability
Id	<integer>	*Required*. The selected I/O module id.	1 and onward
idx	<integer>	*Required*. The index of I/O port.	1 and onward
normal	<integer>	*Required*. The normal state of I/O port.	1 and onward
trigger	<boolean>	*Required*. The updated state of I/O port.	1 and onward
timeOut	<integer>	*Required.* Define the maximum waiting time for polling I/O module DI trigger state if no changed.	1 and onward

Example:

```
GET /webapi/entry.cgi?
Id=1&idx=4&normal=0&trigger=true&timeOut=10000&api=SYNO.SurveillanceStation.IOModule&method=
PollingDO&version=1
```

Response

Key	Value	Description	Availability
data	<IOModuleDOStatus Object>	The updated I/O module DO trigger state.	1 and onward
success	<boolean>	Webapi success or not.	1 and onward

<IOModuleDOStatus Object>

Key	Value	Description	Availability
current_state	<integer>	The trigger state of this I/O port. e.g. 0:untrigger, 1:triggered.	1 and onward

Example:

```
{
    "data":{
        "current_state":1
    },
    "success":true
}
```

2.3.44.13 GetDevNumOfDs Method

Get number of devices in each DS.

Request

No parameter is required.

Example:

```
GET /webapi/entry.cgi?
api=”SYNO.SurveillanceStation.IOModule”&method=”GetDevNumOfDs”&version=”1”
```

Response

Key	Value	Description	Availability
data	<DeviceNumber Map>	The map of device number.	1 and onward
success	<boolean>	Webapi success or not.	1 and onward

<DeviceNumber Map> definition:

Key	Value	Description	Availability
dsId	<DeviceNumber Object>	Device number of mapped server. The key of this map is a string of dsId. eg. “0”, “15”.	1 and onward

<DeviceNumber Object> definition:

Key	Value	Description	Availability
devNum	<integer>	Device number from server.	1 and onward
dsId	<integer>	Server's ds id.	1 and onward

Example:

```
{
   "data":{
      "devNumMap":{
         "0":{
            "devNum":0,
            "dsId":0
         },
         "1":{
            "devNum":1,
            "dsId":1
         }
      }
   },
   "success":true
}
```

2.3.44.14 CountByCategory Method

Get category count of IO module.

Request

Parameter	Value	Description	Availability
start	<integer>	*Optional*. The offset to be shifted in the total result. If not specified, the offset will be 0.	1 and onward
limit	<integer>	*Optional*. Number of cameras to be returned. If not specified, return count to the end of IO module list.	1 and onward
ownerDsId	<integer>	*Optional*. The owner DS ID of I/O port.	1 and onward
blFromList	<boolean>	*Optional*. Indicating if the caller is from IO module list Set to be false if not specified.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api=”SYNO.SurveillanceStation.IOModule”&method=”CountByCategory”&version=”1”
```

Response

Key	Value	Description	Availability
data	Array of <iomodule_status>	The list of iomodule status.	1 and onward
total	<integer>	Total count of I/O modules.	1 and onward
success	<boolean>	Webapi success or not.	1 and onward

<iomodule_status> definition:

Key	Value	Description	Availability
1	<integer>	Count of normal status.	1 and onward
3	<integer>	Count of disconnected status.	1 and onward
7	<integer>	Count of disabled status.	1 and onward
12	<integer>	Count of others status.	1 and onward
-1	<integer>	Total count of I/O modules.	1 and onward

Example:

```
{
   "data":{
      "iomodule_status":{
         "-1":1,
         "1":1,
         "12":0,
         "3":0,
         "7":0
```

```
        },
        "total":1
    },
    "success":true
}
```

2.3.44.15 API Error Code

Code	Description
100	Unknown error.
400	Execution failed.
401	Parameter invalid.
402	IO module disabled.
403	Insufficient license.

2.3.45 SYNO.SurveillanceStation.IOModuleSearch

Searching I/O modules via UPnP and get searching status.

Name	Version	Availability
SYNO.SurveillanceStation.IOModule.Search	1	Surveillance Station 7.0

Method Name	Section	Availability
Start	2.3.45.1	1 and onward
InfoGet	2.3.45.2	1 and onward

2.3.45.1 Start method

Start to search the I/O module.

Request

No parameter is required.

Example:

```
GET /webapi/entry.cgi?api="SYNO.SurveillanceStation.IOModule.Search"&version="1"&method="Start"
```

Response

Key	Value	Description	Availability
pid	<integer>	The pid of the searching process	1 and onward

2.3.45.2 InfoGet

Get the searching info.

Request

Key	Value	Description	Availability
pid	<integer>	The pid of the searching process	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.IOModule.Search"&version="1"&method="Start"&pid=3604
```

Response

Key	Value	Description	Availability
moduleList	<IOModule> Array	List of I/O module found.	1 and onward

searchStatus	boolean	Is the searching process alive.	1 and onward

<IOModule Object> definition:

Key	Value	Description	Availability
ip	<string>	IP of the I/O module.	4 and onward
mac	<string>	I/O module MAC address.	4 and onward
model	<string>	Model of the I/O module.	4 and onward
port	<integer>	Port of the I/O module.	1 and onward
vendor	<string>	Vendor of the I/O module.	4 and onward

2.3.45.3 API Error Code

Code	Description
400	Operation Failed.
401	Parameter invalid.

3. Resources

REST:

- http://en.wikipedia.org/wiki/Representational_state_transfer

SOAP:

- http://en.wikipedia.org/wiki/SOAP

JSON:

- http://en.wikipedia.org/wiki/JSON

HTTP:

- Hypertext Transfer Protocol – HTTP/1.0 http://www.w3.org/Protocols/rfc1945/rfc1945
- Hypertext Transfer Protocol – HTTP/1.1 http://www.w3.org/Protocols/rfc2616/rfc2616.html

hls:

- HTTP Live Streaming – http://en.wikipedia.org/wiki/HTTP_Live_Streaming

Appendix: Valid values

The following valid values are used in this document:

Value	Description
m ... n	Any number between number m and number n.
m …	Any number larger than or equal to number m.
<boolean>	A Boolean data type.
<integer>	Any number between 0 and 4,294,967,295 (2^{32}-1).
<float>	A floating point number.
<string>	Any string encoded by UTF-8.
<timestamp>	Unix time, seconds elapsed since UTC of Thursday, Jan 1st, 1970.
<value 1>, <value 2>, <value 3>, ...	Enumeration, only the given values are valid.
Array of <object>	A list of object in JSON array format.
<schedule string>	A string consists of 48 digits to represent the scheduling of a weekday. Note that each digit stands for the schedule type of half-hour: 0: No scheduled plan 1: Continuous Recording 2: Motion Detection Recording 3: Alarm Recording 4: Motion Detection and Alarm Recording Example: “111111111111222222222222333333333333444444444444”
<XXX Object>	The particular JSON object created to carry particular information. For example: • <Camera Object> defined by “List” method in section 2.3.4 is used to represent the information of a camera. • <Event Object> defined by “Query” method in section 2.3.11 is used to represent the information of an event.
<CAMERA_ID>	A unique ID to identify an installed camera. The camera IDs can be obtained by calling “List” method of SYNO.SurveillanceStation.Camera (section 2.3.4).
<CAMERA_GROUP_ID>	A unique ID to identify an existing camera group. The IDs can be obtained by calling “ListGroup” method of SYNO.SurveillanceStation.Camera (section 2.3.4).
<PRESET_ID>	A unique ID to identify an existing preset position of a camera. The IDs can be obtained by calling “ListPreset” method of SYNO.SurveillanceStation.PTZ (section 2.3.9).
<PATROL_ID>	A unique ID to identify an existing patrol of a camera. The IDs can be obtained by calling “ListPatrol” method of SYNO.SurveillanceStation.PTZ (section 2.3.9).
<VS_ID>	A unique ID to identify an installed Visual Station. The IDs can be obtained by calling “ListVS” method of SYNO.SurveillanceStation.Device (section 2.3.14).
<DS_ID>	A unique ID to identify an installed DS in CMS list. The IDs can be obtained by calling “ListCMS” method of SYNO.SurveillanceStation.Device (section 2.3.14).
<EVENT_ID>	A unique ID to identify a recorded event. The IDs can be obtained by calling “Query” method of SYNO.SurveillanceStation.Event (section 2.3.39).
<EMAP_ID>	A unique ID to identify an existing E-Map. The IDs can be obtained by calling “List” method of SYNO.SurveillanceStation.Emap (section 2.3.22).

4. Resources

REST:

- http://en.wikipedia.org/wiki/Representational_state_transfer

SOAP:

- http://en.wikipedia.org/wiki/SOAP

JSON:

- http://en.wikipedia.org/wiki/JSON

HTTP:

- Hypertext Transfer Protocol – HTTP/1.0 http://www.w3.org/Protocols/rfc1945/rfc1945
- Hypertext Transfer Protocol – HTTP/1.1 http://www.w3.org/Protocols/rfc2616/rfc2616.html

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<VS_ID>	A unique ID to identify an installed Visual Station. The IDs can be obtained by calling “ListVS” method of SYNO.SurveillanceStation.Device (section 2.3.14).
<DS_ID>	A unique ID to identify an installed DS in CMS list. The IDs can be obtained by calling “ListCMS” method of SYNO.SurveillanceStation.Device (section 2.3.14).
<EVENT_ID>	A unique ID to identify a recorded event. The IDs can be obtained by calling “Query” method of SYNO.SurveillanceStation.Event (section 2.3.39).
<EMAP_ID>	A unique ID to identify an existing E-Map. The IDs can be obtained by calling “List” method of SYNO.SurveillanceStation.Emap (section 2.3.22).