Synology
Surveillance Station Web API

ver: 3.11

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REVISION HISTORY			
VERSION	**DATE**	**DESCRIPTION**	**NAME**
0.1	2012/03/07	Creation of this document.	Wai Chi Kan
0.2	2012/04/18	Add “SYNO.SurveillanceStation.Info”.	Sheldon Lin
0.3	2012/04/23	Document format modification.	Sheldon Lin
0.4	2012/04/24	Rename to “Synology Surveillance Station Web API.”	Sheldon Lin
0.5	2012/04/25	'offset', 'limit' parameters as optional.	Sheldon Lin
0.6	2012/04/25	More info in “SYNO.SurveillanceStation.Info”.	Sheldon Lin
0.7	2012/05/25	Error code, VS status in Device API.	Claire Huang
0.8	2012/05/30	info.cgi for non-login users.	Claire Huang
0.9	2012/05/31	Modify SYNO.API.Auth.	Claire Huang
0.10	2012/06/01	Modify SYNO.Surveillance.Event Audio Format.	Claire Huang
0.11	2012/07/19	Merge Chad's modification, rephrase, RecTime.	Claire Huang
0.12	2012/08/08	Add SYNO.API.Auth version = 2.	Claire Huang
1.0	2012/09/11	Version 1 as official release.	Sheldon Lin
1.1	2012/09/17	Add SYNO.SurveillanceStation.Emap.	Sheldon Lin
1.2	2012/10/01	Implement SYNO.SurveillanceStation.Emap.	Chih-Pei Yang
1.3	2013/11/04	Error Code Update.	Kai Wang
1.4	2014/04/28	1. Update SYNO.Surveillance.Info 2. Add privilege parameter for List, ListGroup in SYNO.Surveillance.Camera	Pei-Wen Wu
1.5	2014/05/20	1. SYNO.Surveillance.Camera - Add method Enable, Disable, GetCapabilityByCamId 2. SYNO.Surveillance.Event - Add mode: None, Edge recording - Add method DeleteMulti, DeleteAll, DeletFilter - Update Query method with ownerDsId and camId	Pei-Wen Wu
1.6	2014/05/21	Replace“SS”with“Surveillance Station”	Kai Wang
1.7	2014/06/12	1. Add sections - SYNO.SurveillanceStation.AudioStream - SYNO.SurveillanceStation.VideoStream - SYNO.SurveillanceStation.Notification 2. Add methods of - SYNO.SurveillanceStation.PTZ (Focus, Iris, AutoFocus, AbsPtz) 3. Modify parameters - SYNO.SurveillanceStation.PTZ	Pei-Wen Wu

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		- SYNO.SurveillanceStation.Device - SYNO.SurveillanceStation.Camera 4. Replace “Slave DS” with “DS”	
1.8	2014/8/14	Fix typo in example of Camera Enable and Disable	Pei-Wen Wu
1.9	2014/12/26	1. Remove “Motion Detection and Alarm Recording” 2. Add “Custom Recording” 3. Add audio out caps in GetCapability and GetCapabilityByCamId	Josh Lin
2.0	2015/3/13	Add Document of Following APIs Door Camera.Event Camera Event Camera.Wizard ActionRule CMS.SlavedsWizard CMS.GetDsStatus Camera.Import CMS DigitalOutput LogPTZ StreamEvent.Export Event.Mount Notification Notification.Email Notification.SMS Notification.SMS.ServiceProvider Notification.PushService Notification.Filter Notification.Schedule Snapshot VisualStation Analytics AddOn Analytics_Setting	Chuan-Che Yen Bismarck Hsu Ben Tsai
2.1	2015/10/16	Update calling examples using entry.cgi Request Info Camera Enable External Recording Addons GetUpdateInfo	Chuan-Che Yen
2.2	2015/12/16	Update calling example which refer to _sid Add Document the API “External Event”	Chuan-Che Yen
2.3	2016/3/9	Correct old version webapi path Add example of PTZ webapi GoPreset method	Septem Hsu

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		Update description of Camera webapi SaveOptimizeParam method	

2.4	16/3/23	Add document of following APIs
		• IOModule
		• IOModule.search
		
		Add document of following methods
		• SYNO.SurveillanceStation.Camera
		  ○ GetStmUrlPath
		• SYNO.SurveillanceStation.Notification
		  ○ SetAdvSetting
		  ○ GetAdvSetting
		• SYNO.SurveillanceStation.Log
		  ○ GetSetting
		  ○ SetSetting
			Chuan-Che Yen
			Septem Hsu
			David Lai

2.5	16/7/28	Rename following APIs
		• Event → Recording
		• Analytics → Alert
		
		Add document of following APIs
		• SYNO.SurveillanceStation.Camera.Status
		• SYNO.SurveillanceStation.PTZ.Preset
		• SYNO.SurveillanceStation.PTZ.Patrol
		• SYNO.SurveillanceStation.Camera.Search
		
		Add document of following methods
		• SYNO.SurveillanceStation.Recording
		  ○ CheckEventValid
		  ○ EventFlushHeader
		• SYNO.SurveillanceStation.PTZ
		  ○ Home
		  ○ AutoPan
		  ○ ObjTracking
		• SYNO.API.Auth
			Jack

2.6	17/1/11	Rename following methods
		• SYNO.SurveillanceStation.Camera
		  ○ GetStmUrlPath → GetLiveViewPath
		• SYNO.SurveillanceStation.Recording
		  ○ DeleteMulti → Delete
		Modify request/response parameter of following methods
		• SYNO.SurveillanceStation.Camera
		  ○ List
		  ○ Enable
		  ○ Disable
			Terry

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		○ Delete ○ GetSnapshot • SYNO.SurveillanceStation.Recording ○ List ○ Lock ○ Unlock ○ Download Add document of following methods • SYNO.SurveillanceStation.Camera ○ Save • SYNO.SurveillanceStation.Recording ○ Stream Remove following methods • SYNO.SurveillanceStation.Recording ○ EventFlushHeader	
2.7	17/9/8	Add document of following APIs • SYNO.SurveillanceStation.HomeMode ○ GetInfo ○ Switch • SYNO.SurveillanceStation.Transactions.Device ○ Enum • SYNO.SurveillanceStation.Transactions.Transaction ○ Enum ○ Lock ○ Unlock ○ Delete ○ Begin ○ Complete ○ Cancel ○ AppendData	James Chan Kayle Chang
2.8	18/7/5	Add document of following methods • SYNO.SurveillanceStation.Emap.Image ○ Load • SYNO.SurveillanceStation.CMS.SlavedsList ○ Load Modify document of following methods • SYNO.SurveillanceStation.Emap ○ List ○ Load • SYNO.SurveillanceStation.Camera ○ GetInfo ○ ListGroup ○ GetCapabilityByCamId ○ MigrationEnum ○ Migrate	Blake Lin

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		○ CountByCategory ○ RecountEventSize ○ SaveOptimizeParam ○ GetOccupiedSize ○ CheckCamValid ○ MigrationCancel Remove following methods • SYNO.SurveillanceStation.AudioStream ○ Stream ○ Query ○ Open ○ Close • SYNO.SurveillanceStation.VideoStream ○ Stream ○ Query • SYNO.SurveillanceStation.Device ○ ListVS ○ ListCMS ○ GetServiceSetting • SYNO.SurveillanceStation.Streaming ○ LiveStream ○ EventStream	
2.9	18/11/16	Add document of following methods • SYNO.SurveillanceStation.Archiving.Pull ○ SaveTask ○ DeleteTask ○ ListTask ○ EnableTask ○ DisableTask ○ BatchEditTask ○ GetBatchEditProgress ○ BatchEditProgressDone ○ LoginSourceDS	hungchengl
3	18/12/28	Modify document of following methods • SYNO.SurveillanceStation.SnapShot ○ List • SYNO.SurveillanceStation.Camera ○ MDParamSave • SYNO.SurveillanceStation.License ○ Load	Saipher
3.1	19/1/9	Add document of following methods • SYNO.SurveillanceStation.YoutubeLive ○ Load ○ Save ○ CloseLive	Saipher

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3.2	19/5/27	Modify document of following methods • SYNO.SurveillanceStation.Recording ○ Download	Saipher

3.3	19/7/10	Modify document of following methods
		• SYNO.SurveillanceStation.Notification.Email
		  ○ SetSetting
		Add document of following methods
		• SYNO.SurveillanceStation.Recording
		  ○ DeleteFilter
		  ○ CountByCategory
		  ○ LockFilter
		  ○ UnLockFilter
		• SYNO.SurveillanceStation.Notification.Email
		  ○ GetSetting
		Remove following methods
		• SYNO.SurveillanceStation.Camera.Wizard
		  ○ CamSaveAll
		  *Please use SYNO.SurveillanceStation.Camera Save method V9 instead.
			Alan Lyu

3.4	20/3/17	Add document of following APIs
		• SYNO.SurveillanceStation.IVA
		  ○ ListTask
		  ○ GetCount
			Star Chen

3.5	20/3/23	Add document of following APIs
		• SYNO.SurveillanceStation.Recording
		  ○ RangeExport
		  ○ GetRangeExportProgress
		  ○ OnRangeExportDone
			David Lai

3.6	20/10/28	Modify document of following methods
		• SYNO.API.Auth
		  ○ login
		  ○ logout
			Ruby Lin

3.7	21/5/31	Add document of of following APIs • SYNO.SurveillanceStation.Face • SYNO.SurveillanceStation.Face.Result	Septem Hsu
3.8	21/6/2	Modify document of following APIs • SYNO.SurveillanceStation.IVA • SYNO.SurveillanceStation.IVA.Report Add document of of following APIs • SYNO.SurveillanceStation.IVA.Recording • SYNO.SurveillanceStation.IVA.TaskGroup	Leon Luo

3.9	21/6/4	Add document of of following APIs
		• SYNO.SurveillanceStation.Recording.Bookmark
		  ○ SaveBookmark
		  ○ DeleteBookmark
			Star Chen

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		Add document of how to list bookmarks in • SYNO.SurveillanceStation.Recording ○ List	
3.10	21/6/22	Add request parameter "recordSchedule" of following method • SYNO.SurveillanceStation.Camera ○ Save	Tom Chueh

3.11	21/12/30	Modify document of following methods
		• SYNO.SurveillanceStation.Camera
		  ○ GetInfo
		  ○ Save
		  ○ GetLiveViewPath
			Andy Huang

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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:

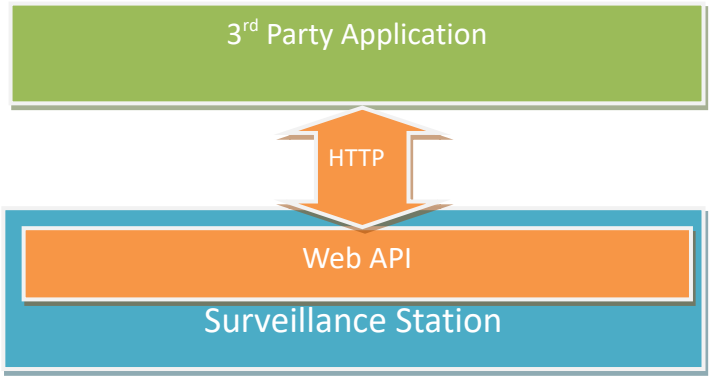

Figure 1-1 Surveillance Station Web API architecture

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

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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.

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2.1.2 Operation flow

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

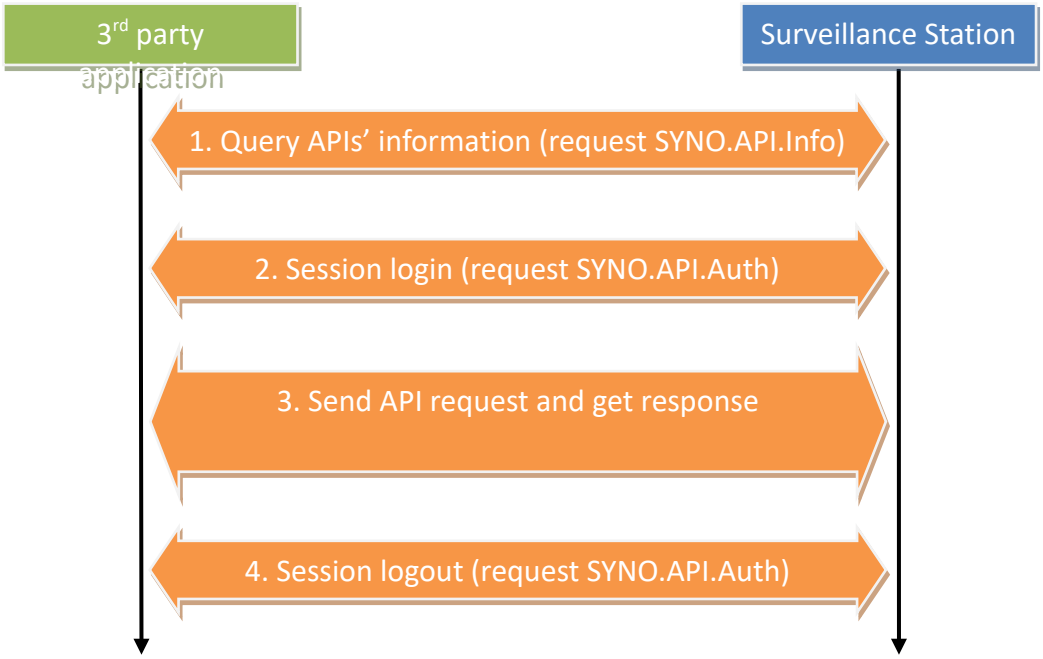

Figure 2-1 Operation flow of Web API

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.

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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.

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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

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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.Recording	Query recording information	2.3.11
SYNO.SurveillanceStation.Emap	Get information of defined E-Maps.	2.3.22
SYNO.SurveillanceStation.Emap.Image	Get Image of defined E-Maps.	2.3.23
SYNO.SurveillanceStation.Notification	Get authorized token of DS.	2.3.24

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.

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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.
```

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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.Recording": {
                "path": "entry.cgi",
                "minVersion": 1,
                "maxVersion": 1
        },
        "SYNO.SurveillanceStation.Emap": {
                "path": "entry.cgi",
```

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```
                "minVersion": 1,
                "maxVersion": 1
        }
}
```

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2.3.2 SYNO.API.Auth

API used to perform session login and logout.

API Name	Version	Availability
SYNO.API.Auth	1	DSM 3.2
	2	DSM 4.1
	3	DSM 4.2
	4	DSM 5.2
	5	DSM 6.0 beta 1
	6	DSM 6.0 beta2

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
enable_syno_token	<string>	*Optional.* Return synotoken if value is "yes".	3 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
otp_code	<integer>	*Optional.* 6-digit OTP code.	3 and onward
enable_device_token	<string>	*Optional.* yes or no, default to no.	6 and onward

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device_id	<string>	*Optional.* Device id (max: 255).	6 and onward
device_name	<string>	*Optional.* Device name (max: 255).	6 and onward

Example1:

```
GET /webapi/auth.cgi?
api=SYNO.API.Auth&method=login&version=1&account=admin&passwd=123456&session=SurveillanceStat
ion
```

Example2:

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

Response

Name	Value	Description	Availability
sid	<string>	Session ID, pass this value by HTTP argument "_sid" or Cookie argument.	2 and onward
did	<string>	Device id, use to skip OTP checking.	6 and onward
synotoken	<string>	If CSRF enabled in DSM, pass this value by HTTP argument "SynoToken"	3 and onward
is_portal_port	<boolean>	Login through app portal	4 and onward

Example:

```
{
        "sid":"Jn5dZ9aS95wh2",
        "is_portal_port":false
}
```

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.

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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.
405	App portal incorrect.
406	OTP code enforced.
407	Max Tries (if auto blocking is set to true).

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408	Password Expired Can not Change.
409	Password Expired.
410	Password must change (when first time use or after reset password by admin).
411	Account Locked (when account max try exceed).

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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

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		For Surveillance-login users only.	
isAdmin	<boolean>	Login user is admin or not. For Surveillance-login users only.	2 and onward
userPriv	<integer>	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

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400	Execution failed.

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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
	9	Surveillance Station 8.0

Method Name	Section	Availability
Save	2.3.4.1	9 and onward
List	2.3.4.2	9 and onward
GetInfo	2.3.4.3	From 1 to 8
ListGroup	2.3.4.4	From 1 to 8
GetSnapshot	2.3.4.5	9 and onward
Enable	2.3.4.6	3 and onward
Disable	2.3.4.7	3 and onward
GetCapabilityByCamId	2.3.4.8	From 4 to 8
MigrationEnum	2.3.4.9	From 7 to 8
Migrate	2.3.4.10	From 7 to 8
CountByCategory	2.3.4.11	From 7 to 8
RecountEventSize	2.3.4.12	From 7 to 8
SaveOptimizeParam	2.3.4.13	From 7 to 8
GetOccupiedSize	2.3.4.14	From 7 to 8
CheckCamValid	2.3.4.15	From 7 to 8
MigrationCancel	2.3.4.16	From 7 to 8
Delete	2.3.4.17	7 and onward
GetLiveViewPath	2.3.4.18	9 and onward

2.3.4.1 Save method

Add new camera or edit existing camera setting.

Request

Parameter	Value	Description	Availability
id	<CAMERA_ID>	*Optional*. Camera id to be edited. If equal to 0, add new camera according to request parameter.	9 and onward
name	<string>	*Optional*. Camera name to be edited. Note that this parameter is only valid when “id” is not specified and “dsId“ is specified.	9 and onward

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dsId	<integer>	*Optional.* Camera owner ds id.	9 and onward
newName	<string>	*Optional (Needed when add case).* Camera new name.	9 and onward
ip	<string>	*Optional (Needed when add case).* Camera ip.	9 and onward
port	<integer>	*Optional (Needed when add case).* Camera port.	9 and onward
vendor	<string>	*Optional (Needed when add case).* Camera vendor.	9 and onward
model	<string>	*Optional (Needed when add case).* Camera model.	9 and onward
userName	<string>	*Optional (Needed when add case).* Camera login user name.	9 and onward
password	<string>	*Optional (Needed when add case).* Camera login password.	9 and onward
videoCodec	<integer>	*Optional.* Camera video codec. • 0 - Unknown • 1 - MJPEG • 2 - MPEG4 • 3 - H264 • 5 - MXPEG • 6 - H265 • 7 - H264+	9 and onward
audioCodec	<integer>	*Optional.* Camera audio codec. • 0 - Unknown • 1 - PCM • 2 - G711 • 3 - G726 • 4 - AAC • 5 - AMR • 6 - UserDefine (use only with user define camera)	9 and onward
tvStandard	<integer>	*Optional.* Camera tv standard. • 1 - NTSC • 2 - PAL	9 and onward

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channel	<string>	*Optional.* Camera channel.	9 and onward
userDefinePath	<string>	*Optional (Needed when add user define camera).* Camera streaming path. This parameter only valid when camera vendor is "User" and model is "Define".	9 and onward
fov	<string>	*Optional.* Camera field of view.	9 and onward
streamXX	<Stream Setting object>	*Optional.* XX – Stream number.	9 and onward
recordTime	<integer>	*Optional.* The recording length in minute.	9 and onward
preRecordTime	<integer>	*Optional.* Extra recording time before the start of each recording in second.	9 and onward
postRecordTime	<integer>	*Optional.* Extra recording time after the end of each recording in second.	9 and onward
enableRecordingKeepDays	<boolean>	*Optional.* Does the rotation occur when the limit time is reached.	9 and onward
recordingKeepDays	<integer>	*Optional.* The upper bound indicating how long a file can be store before rotation.	9 and onward
enableRecordingKeepSize	<boolean>	*Optional.* Does the rotation occur when the limit space is reached.	9 and onward
recordingKeepSize	<integer>	*Optional.* The upper bound that total file size can reach before rotation.	9 and onward
enableLowProfile	<boolean>	*Optional.* Does low bandwidth profile enabled.	9 and onward
recordSchedule	Array of <integer>	*Optional.* A string consists of 48*7 digits to represent the scheduling. Note that each digit stands for the schedule type of half-hour: 0: No scheduled plan 1: Continuous Recording 2: Motion Detection Recording 3: Custom Detection 1	9 and onward

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		4: Custom Detection 2	
rtspPathTimeout	<integer>	*Optional.* The timeout of share stream. • 0 - One hour • 1 - Forever	9 and onward

<Stream Setting Object> definition:

Key	Value	Description	Availability
fps	<integer>	*Optional.* Frames per second of the stream	9 and onward
resolution	<string>	*Optional.* Denoted as width * height	9 and onward
bitrateCtrl	<integer>	*Optional.* The bitrate control type. • 0 - None • 1 - Variable bitrate • 2 - Constant bitrate	9 and onward
quality	<integer>	*Optional.* An integer ranged from 1 to 5 to indicate the quality of the stream. This parameter only valid when using variable bitrate.	9 and onward
constantBitrate	<integer>	*Optional.* The constant bitrate value. This parameter only valid when using constant bitrate.	9 and onward

Example1: Adding camera with specific vendor, model.

```
http://192.168.1.1:5000/webapi/entry.cgi?
api=SYNO.SurveillanceStation.Camera&method="Save"&version=9&newName="test"&vendor="ABUS"&m
odel="TVIP72500"&ip="192.168.1.2"&port=80&userName="admin"&password="123456"
```

Example2: Edit stream 1 resolution and fps of a local camera named "test".

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Camera"&method="Save"&version=9&name="test"&dsId=0&stream1={"res
olution":"1920x1080","fps":15}
```

Response

Key	Value	Description	Availability
id	<CAMERA_ID>	The add/edit camera id.	9 and onward
camera	<Camera List object>	The detail information of add/edit camera.	9 and onward

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2.3.4.2 List method

Get the list of all cameras.

Request

Parameter	Value	Description	Availability
idList	<string>	*Optional.* The list of <CAMERA_ID> to be queried concatenated by “,”.	9 and onward
offset	<integer>	*Optional*. The offset to be shifted in the total result. If not specified, the offset will be 0.	9 and onward
limit	<integer>	*Optional*. Number of cameras to be returned. If not specified, return cameras to the end of camera list.	9 and onward
blFromCamList	<boolean>	*Optional* Indicating if the caller is from cam list Set to be *false* if not specified.	9 and onward
blIncludeDeletedCam	<boolean>	*Optional* Indicating if deleted cameras should be listed or not set to be *false* if not specified	9 and onward
privCamType	0 … 15	Weighted sum indicated the types of the camera 0x00: NONE 0x01: LIVEVIEW 0x02: PLAYBACK 0x04: LENS 0x08: AUDIO	9 and onward
basic	<boolean>	*Optional* Indicating to show basic settings or not set to be *false* if not specified	9 and onward
streamInfo	<boolean>	*Optional* Indicating to show streaming information or not set to be *false* if not specified	9 and onward
blPrivilege	<boolean>	*Optional* Indicating if the user privilege should be checked or not set to be *false* if not specified	9 and onward
camStm	0, 1, 2	Stream number of the camera live view • 0: Live stream • 1: Recording stream • 2: Mobile stream (default value)	9 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&a
pi="SYNO.SurveillanceStation.Camera"&limit=2&basic=true&blFromCamList=true&camStm=1&method="Li
```

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st"

Response

Key	Value	Description	Availability
total	<integer>	The number of total installed cameras.	9 and onward
cameras	Array of <Camera List Object>	The list of queried cameras.	9 and onward

<Camera List Object> definition:

Key	Value	Description	Availability
DONum	<integer>	Digital output number	9 and onward
DINum	<integer>	Digital input number	9 and onward
audioCodec	<integer>	Camera audio codec. • 0 - Unknown • 1 - PCM • 2 - G711 • 3 - G726 • 4 - AAC • 5 - AMR • 6 - UserDefine (use only with user define camera)	9 and onward
channel	<string>	Camera channel id	9 and onward
dsId	<integer>	The id of the owner of this camera	9 and onward
enableLowProfile	<boolean>	Does low bandwidth profile enabled.	9 and onward
fov	<string>	Field of view of the camera	9 and onward
streamXX	<Stream Setting object>	XX – Stream number.	9 and onward
status	1 … 18	Indicating the camera status • 1: Normal • 2: Deleted • 3: Disconnected • 4: Unavailable • 5: Ready • 6: Inaccessible • 7: Disabled • 8: Unrecognized • 9: Setting • 10: Server disconnected • 11: Migrating • 12: Others • 13: Storage removed • 14: Stopping • 15: Connect hist failed • 16: Unauthorized • 17: RTSP error • 18: No video	9 and onward
ip	<string>	IP address of the camera	9 and onward
id	<CAMERA_ID>	Camera ID	9 and onward

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enableRecordingKeepDays	<boolean>	Does the rotation occur when the limit time is reached.	9 and onward
model	<string>	Model name of the Camera	9 and onward
name	<string>	Name of the camera	9 and onward
port	<integer>	Port of the camera	9 and onward
recordingKeepDays	<integer>	The parameter for replacement strategy	9 and onward
recordingKeepSize	<string>	The parameter for replacement strategy	9 and onward
tvStandard	<integer>	Indicating the TV Standard • 0: None • 1: NTSC • 2: PAL	9 and onward
videoCodec	<integer>	*Optional.* Camera video codec. • 0 - Unknown • 1 - MJPEG • 2 - MPEG4 • 3 - H264 • 5 - MXPEG • 6 - H265 • 7 - H264+	9 and onward
vendor	<string>	Vendor of the camera	9 and onward

Example:

```
{
 "cameras": [
   {
     "DINum":0,
     "DONum":0,
     "stream1":
       {
          "bitrateCtrl":1,
          "constantBitrate":"1000",
          "fps":10,
          "quality":"5",
          "resolution":"640x480"
       },
     "audioCodec":0,
     "channel":"1",
     "dsId":0,
     "enableLowProfile":false,
     "enableRecordingKeepDays":false,
     "enableRecordingKeepSize":true,
     "fov":"",
     "id":144,
     "ip":"10.13.22.37",
     "model":"TVIP72500",
     "newName":"ABUS – TVIP72500",
     "port":80,
     "postRecordTime":5,
```

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```
      "preRecordTime":5,
      "recordTime":30,
      "recordingKeepDays":30,
      "recordingKeepSize":"10",
      "status":1,
      "tvStandard":0,
      "vendor":"ABUS",
      "videoCodec":3
    },
    {
      "DINum":2,
      "DONum":0,
      "stream1":
        {
          "bitrateCtrl":1,
          "constantBitrate":"1000",
          "fps":10,
          "quality":"5",
          "resolution":"1280x720"
        },
      "stream2":
        {
          "bitrateCtrl":1,
          "constantBitrate":"0",
          "fps":10,
          "quality":"5",
         "resolution":"704x480"
        },
      "audioCodec":2,
      "channel":"1",
      "dsId":0,
      "enableLowProfile":false,
      "enableRecordingKeepDays":false,
      "enableRecordingKeepSize":true,
      "fov":"",
      "id":154,
      "ip":"10.13.23.15",
      "model":"Generic_ONVIF",
      "newName":"ONVIF",
      "port":80,
      "postRecordTime":5,
      "preRecordTime":5,
      "recordTime":30,
      "recordingKeepDays":30,
      "recordingKeepSize":"10",
      "status":1,
      "tvStandard":0,
      "vendor":"ONVIF",
      "videoCodec":3
```


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```
}
```

2.3.4.3 GetInfo method

Get specific camera settings.

Request

Parameter	Value	Description	Availability
cameraIds	<string>	The list of <CAMERA_ID> to be queried concatenated by “,”.	From 1 to 8
privCamType	0 … 15	*Optional*. Weighted sum indicated the types of the camera • 0x00: NONE • 0x01: LIVEVIEW • 0x02: PLAYBACK • 0x04: LENS • 0x08: AUDIO	From 1 to 8
blIncludeDeletedCam	<boolean>	*Optional*. Is deleted cameras included	From 4 to 8
basic	<boolean>	*Optional*. Is basic information included	From 4 to 8
streamInfo	<boolean>	*Optional*. Is stream information included	From 4 to 8
optimize	<boolean>	*Optional*. Is optimization information included	From 4 to 8
ptz	<boolean>	*Optional*. Is PTZ information included	From 4 to 8
eventDetection	<boolean>	*Optional*. Is event detection information included	From 4 to 8
deviceOutCap	<boolean>	*Optional*. Is information of device output capability included	From 4 to 8
fisheye	<boolean>	*Optional*. Is fisheye information included	From 4 to 8
camAppInfo	<boolean>	*Optional*. Is information of camera Application included	From 4 to 8

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.	From 1 to 8

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<Camera Information Object> definition:

Key	Value	Description	Availability
ADCap	<integer>	Audio detection capability	From 4 to 8
DINum	<integer>	Digital input number	From 4 to 8
DONum	<integer>	Digital output number	From 4 to 8
MDCap	<integer>	Which codec has MD capability	From 4 to 8
TDCap	<integer>	Tamper detection capability	From 4 to 8
analyticsBeep	<boolean>	Point out that beep or not	From 4 to 8
analyticsDirection	0, 1	• 0 : one way • 1 : two way	From 4 to 8
analyticsDwellTime	<integer>	Analytics dwellTime for ANALYTICS_TYPE_LOITERING	From 4 to 8
analyticsFrame	<boolean>	Point out that show frame or not	From 4 to 8
analyticsHeight	<integer>	Parameter for the live detection(no longer relevent)	From 4 to 8
analyticsLine	<boolean>	Point out that show line or not	From 4 to 8
analyticsObjSize	<integer>	Analytics objSize for ANALYTICS_TYPE_FOREIGN_OBJ	From 4 to 8
analyticsRegion	<string>	Analytics region	From 4 to 8
analyticsSens	1, 2, 3	• 1: LOW • 2: MEDIUM • 3: HIGH	From 4 to 8
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	From 4 to 8
analyticsVirtualFence	<boolean>	Point out that show virtual fence or not	From 4 to 8
analyticsWidth	<integer>	Parameter for the live detection(no longer relevent)	From 4 to 8
audioCap	<boolean>	Audio capability	From 4 to 8
audioOut	<boolean>	Does the camera support audioOut	From 4 to 8
audioType	<integer>	Audio type	From 4 to 8
autoFocus	<boolean>	Auto focus	From 4 to 8
autoPan	<integer>	Auto pan	From 4 to 8
blLiveviewPriv	<boolean>	live view privilege	From 4 to 8
blPresetSpeed	<boolean>	Can speed pre-setted	From 4 to 8
camIdOnRecServer	<integer>	Camera ID on recording server	From 4 to 8
camLiveMode	0, 1	Determing the source of live view • 0: DS • 1: Camera	From 4 to 8
camMountType	0, 1, 2	How camera is mounted • 0: CEILING • 1: WALL	From 4 to 8

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		• 2: FLOOR	
camPath	<string>	Camera Path	From 4 to 8
camStatus	0 … 4	Indicating the camera status • 0: Normal • 1: Disconnected • 2: Disabled • 3: Deleted • 4: Others	From 4 to 8
channel_id	<string>	Camera channel id	From 4 to 8
daybegin	<integer>	Camera optimization exposure mode day begin time	From 4 to 8
dayend	<integer>	Camera optimization exposure mode day end time	From 4 to 8
deleted	<boolean>	Is deleted	From 4 to 8
detailInfo	<Camera DerailInfo Object>	Detail information of the camera	From 4 to 8
deviceType	1 … 15	Using weighted sum to verify the device type • 0x01: CAMERA • 0x02: VIDEO_SERVER • 0x04: PTZ • 0x08: FISHEYE	From 4 to 8
dsIp	<string>	IP of the DS	From 4 to 8
dsPort	<integer>	Port of the DS	From 4 to 8
enabled	<boolean>	Is the camera enabled?	From 4 to 8
exposure_control	0 … 6	Indicating type of exposure control • 0: AUTO • 1: 50HZ • 2: 60HZ • 3: HOLD • 4: OUTDOOR • 5: NONE • 6: UNKNOWN	From 4 to 8
exposure_mode	0 … 4	Indicating exposure mode • 0: AUTO • 1: DAY • 2: NIGHT • 3: SCHEDULE • 4: UNKNOWN	From 4 to 8
feRegionList	Array of <Fisheye Region Object>	List of fisheye camera regions	From 4 to 8
fisheyeDispMode	<string>	The display mode of fisheye camera	From 4 to 8
fisheyeType	<integer>	The type of fisheye	From 4 to 8
folder	<string>	Path to the recorded video	From 4 to 8
fps	<integer>	The fps of recording stream	From 4 to 8
hasCamParam	<boolean>	True if the camera has parameter capability	From 4 to 8
host	<string>	IP address of the camera	From 4 to 8
id	<integer>	Camera ID	From 4 to 8
imageEnhancement	<Image Enhancement	The parameters of the image enhancement	From 4 to 8

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	Object>		
isStatusUnrecognized	<boolean>	Is status of the camera unrecognized	From 4 to 8
is_rotated_by_date	<boolean>	Indicating if the replacing strategy "rotation_by_date" is enabled	From 4 to 8
is_rotated_by_space	<boolean>	Indicating if the replacing strategy "rotation_by_space" is enabled	From 4 to 8
model	<string>	Model name of the Camera	From 4 to 8
multiDI	<boolean>	Is there multi digital input	From 4 to 8
mute	<boolean>	Is the camera mute	From 4 to 8
name	<string>	Name of the camera	From 4 to 8
objTrack	<boolean>	Is the camera with capability of object tracking	From 4 to 8
osd_format	0 … 3	Indicating the format of OSD is • 0: NON • 1: DATE • 2: TIME • 3: TEXT	From 4 to 8
osd_position	<integer>	The position of osd	From 4 to 8
osd_status	<boolean>	Is the OSD on/off	From 4 to 8
ownerDsId	<integer>	The id of the owner of this camera	From 4 to 8
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	From 4 to 8
port	<integer>	Port of the camera	From 4 to 8
presetNum	<integer>	The maximal number of preset regions for the PTZ camera	From 4 to 8
ptzCap	<integer>	Capability of PTZ camera	From 4 to 8
ptzContinuous	<integer>	Is PTZ moving in continuous mode	From 4 to 8
ptzDirection	<integer>	The number of directions PTZ camera supports	From 4 to 8
quality	<string>	Quality of the recording stream	From 4 to 8
recBitrateCtrl	0, 1, 2	Indicating the bitrate of recording stream • 0: NONE • 1: VARIABLE • 2: CONSTANT	From 4 to 8
recCbrBitrate	<integer>	A constant indicating the bitrate	From 4 to 8
recStatus	<integer>	Indicating the recording method	From 4 to 8
resolution	<string>	Resolution of the camera	From 4 to 8
rotation_by_date	<integer>	The parameter for replacement strategy	From 4 to 8
rotation_by_space	<string>	The parameter for replacement strategy	From 4 to 8
rotation_option	<integer>	The recording option when rotation occurs	From 4 to 8
setDICap	<boolean>	Does camera have the capability of digital input	From 4 to 8
setDOCap	<boolean>	Does camera have the capability of digital	From 4 to 8

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		output	
singleStream	<boolean>	Does the camera provide only single stream	From 4 to 8
snapshot_path	<string>	The path for obtaining snapshop	From 4 to 8
status	<integer>	Indicating the status of the camera • 0: ENABLED • 1: DISABLED • 2: ACCTIVATING • 3: DISABLING • 4: RESTARTING • 5: UNKNOWN	From 4 to 8
status_flags	<integer>	Flags of the camera status	From 4 to 8
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	From 4 to 8
stm_info	Array of <Stream Information Object>	Information of each stream profile Length of Array is 3. Array[0]: High quality stream profile. Array[1]: Balanced stream profile. Array[2]: Low bandwidth stream profile.	From 4 to 8
profileSettingList	<string>	Stream profile of each functionality concatenated by ",". Functionality in order: • Liveview • Mobile • Recording Stream - continuous • Recording Stream - motion detection • Recording Stream - customize1 • Recording Stream - customize2 • (deprecated) • (deprecated) • (deprecated)	From 4 to 8

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		• Recording Stream - edge • (deprecated) • Liveview dynamic switch profile • Advanced recording • Video analysis	
time_server	<string>	The NTP server	From 4 to 8
tvStandard	0, 1, 2	Indicating the TV Standard • 0: NTSC • 1: PAL • 2: NONE	From 4 to 8
type	<integer>	Type of the camera	From 4 to 8
update_time	<integer>	The last update time in timestamp	From 4 to 8
vendor	<string>	Vendor of the camera	From 4 to 8
videoCapList	Array of <Video Capability Object>	List of the video capability	From 4 to 8
video_flip	<boolean>	Is the video flip	From 4 to 8
video_mirror	<boolean>	Is the video mirror	From 4 to 8
video_rotation	<integer>	Is the video rotated	From 4 to 8
volume	<integer>	Size of the volume	From 4 to 8
volume_space	<string>	The size of the recorded videos of the camera	From 4 to 8

From 4 to 8

<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	From 4 to 8
camChannel	<string>	Channel of the output video	From 4 to 8
camFolder	<string>	Folder to store configuration and video	From 4 to 8
camFov	<string>	Field of view of the camera	From 4 to 8
camFps	<integer>	The fps of recording stream	From 4 to 8
camIP	<string>	IP address of the camera	From 4 to 8
camIsRotByDate	<boolean>	Does the rotation occur when the limit time is reached	From 4 to 8
camIsRotBySpace	<boolean>	Does the rotation occur when the limit space is reached	From 4 to 8
camLiveBitrateCtrl	0, 1, 2	Indicating the bitrate of live stream • 0: NONE • 1: Variable • 2: Constant	From 4 to 8
camLiveCbrBitrate	<integer>	A constant indicating the bitrate	From 4 to 8
camLiveFps	<integer>	The fps of live stream	From 4 to 8
camLiveMode	0, 1	Determining the source of live view • 0: DS • 1: Camera	From 4 to 8
camLiveQuality	<string>	The quality of live stream	From 4 to 8

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camLiveResolution	<string>	The resolution of live stream	From 4 to 8
camLiveStreamNo	<integer>	The stream number of live stream	From 4 to 8
camMobileBitrateCtrl	0, 1, 2	Indicating the bitrate of mobile stream • 0: NONE • 1: Variable • 2: Constant	From 4 to 8
camMobileCbrBitrate	<integer>	A constant indicating the bitrate	From 4 to 8
camMobileFps	<integer>	The fps of mobile stream	From 4 to 8
camMobileQuality	<string>	The quality of mobile stream	From 4 to 8
camMobileResolution	<string>	The resolution of mobile stream	From 4 to 8
camMobileStreamNo	<integer>	The stream number of mobile stream	From 4 to 8
camModel	<string>	Model name of the camera	From 4 to 8
camMountType	0, 1, 2	How camera is mounted • 0: CEILING • 1: WALL • 2: FLOOR	From 4 to 8
camName	<string>	Camera name	From 4 to 8
camPassWord	<string>	Password of the camera	From 4 to 8
camPort	<integer>	Port of the camera	From 4 to 8
camPostRecTime	<integer>	Extra recording time after the end of each recording	From 4 to 8
camPreRecTime	<integer>	Extra recording time before the start of each recording	From 4 to 8
camPrefix	<string>	The prefix of the recording file name	From 4 to 8
camQuality	<string>	The quality of recording stream	From 4 to 8
camRecBitrateCtrl	0, 1, 2	Indicating the bitrate of recording stream • 0: NONE • 1: Variable • 2: Constant	From 4 to 8
camRecCbrBitrate	<integer>	A constant indicating the bitrate	From 4 to 8
camRecStreamNo	<integer>	Stream number of recording stream	From 4 to 8
camRecTime	<integer>	The recording length in minute	From 4 to 8
camResolution	<string>	The resolution of recording stream	From 4 to 8
camRotByDate	<integer>	The upper bound indicating how long a file can be store before rotation	From 4 to 8
camRotBySpace	<integer>	The upper bound that total file size can reach before rotation	From 4 to 8
camRotOption	<integer>	Indicating the behavior when the space is full, rotate/stop	From 4 to 8
camRtspProtocol	0 … 4	Indicating the protocol of RTSP • 0: NONE • 1: UDP • 2: TCP • 3: HTTP • 4: Auto	From 4 to 8
camSchedule	Array of <integer>	This variable is actually a 2-dimension, 48*7 array indicating the recording schedule at each half hour	From 4 to 8
camServer	<integer>	The DS Id on which the camera is mounted	From 4 to 8
camTvStandard	<integer>	Indicating the TV Standard	From 4 to 8

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		• 0: NTSC • 1: PAL • 2: NONE	
camUserName	<string>	User name to access the camera	From 4 to 8
camVendor	<string>	Vendor of the camera	From 4 to 8
camVideoType	<string>	Indicating video type • 0: UNKNOWN • 1: MJPEG • 2: MPEG4 • 3: H264 • 4: EMAP • 5: MXPEG	From 4 to 8
customAlarmDetect	<integer>	Determining the type of alarm in the schedule field	From 4 to 8
customDetect	<integer>	Determining the type of motion detection in the schedule field	From 4 to 8
edgeStgDownloadSch	Array of <integer>	This variable is actually a 2-dimension, 48*7 array indicating the recording schedule at each half hour	From 4 to 8
edgeStgEnabled	<boolean>	Is the edge storage enabled	From 4 to 8
edgeStgRecDays	<integer>	Using an weighted sum for verifying which day to record	From 4 to 8
edgeStgRecMode	1 … 15	A weighted sum indicating the recording mode • 0x01: CONTINUOUS • 0x02: MD • 0x04: DI • 0x08: AUDIO_DET	From 4 to 8
edgeStgRecStartTime	<string>	The start time of edge storage recording	From 4 to 8
edgeStgRecStopTime	<string>	The stop time of edge storage recording	From 4 to 8
edgeStgRetrieveAction	0, 1, 2, 3	Indicating the retrieve action is • 0: NONE • 1: DOWNLOAD • 2: GET_LOST • 3: NO_RETRIEVE	From 4 to 8

<Fisheye Region Object> definition:

Key	Value	Description	Availability
camId	<integer>	Camera ID	From 4 to 8
id	<integer>	Region ID	From 4 to 8
name	<string>	Name of the Region	From 4 to 8
posX	<integer>	X-coordinate value of the dewarping region	From 4 to 8
posY	<integer>	Y-coordinate value of the dewarping region	From 4 to 8
regions	Array of <Fisheye Sub-region Object>	List of sub regions of the camera	From 4 to 8
type	-1 … 6	Type of fisheye region. • -1: FISHEYE_NOT_REGION • 0: FISHEYE_REGION • 1: FISHEYE_PANORAMA	From 4 to 8

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		• 2: FISHEYE_DOUBLE_PANORAMA • 3: FISHEYE_TRIPLE_VIEW • 4: FISHEYE_QUAD_VIEW • 5: FISHEYE_SUB_REGION • 6: FISHEYE_SUB_PANORAMA	
zoom	<integer>	Zoom value	From 4 to 8

<Fisheye Sub-region Object> definition:

Key	Value	Description	Availability
camId	<integer>	Camera ID	From 4 to 8
id	<integer>	Region ID	From 4 to 8
name	<string>	Name of the sub-region	From 4 to 8
location	<integer>	Location of the Region	From 4 to 8
posX	<integer>	X-coordinate value of the dewarping region	From 4 to 8
posY	<integer>	Y-coordinate value of the dewarping region	From 4 to 8
strSubRegionInfo	<string>	Information about sub-region	From 4 to 8
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	From 4 to 8
zoom	<integer>	Zoom value	From 4 to 8

<Image Enhancement Object> definition:

Key	Value	Description	Availability
brightness	<integer>	Brightness of images	From 4 to 8
contrast	<integer>	Degree of contrast of images	From 4 to 8
saturation	<integer>	Saturation of images	From 4 to 8
sharpness	<integer>	Sharpness of images	From 4 to 8

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,
```

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```
        "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
```


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```
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": [
          {
            "camPath": "cnRzcDovL2FkbWluOnN5bm8xMjM0QDEwLjE3LjUyLjIwOTo1NTQvbGl2ZTEuc2
Rw",
            "fps": 15,
            "quality": "5",
            "resolution": "2592x1944",
            "stmNo": 1,
             "type": 0
          },
          {
            "camPath": "cnRzcDovL2FkbWluOnN5bm8xMjM0QDEwLjE3LjUyLjIwOTo1NTQvbGl2ZTEuc2
Rw",
            "fps": 15,
            "quality": "5",
            "resolution": "2592x1944",
            "stmNo": 1,
             "type": 1
          },
          {
            "camPath": "cnRzcDovL2FkbWluOnN5bm8xMjM0QDEwLjE3LjUyLjIwOTo1NTQvbGl2ZTEuc2
Rw",
            "fps": 15,
            "quality": "5",
            "resolution": "2592x1944",
            "stmNo": 1,
             "type": 2
          }
        ],
        "camLiveMode": 0,
        "volume": 50,
        "ptzDirection": 32,
        "dayend": 18,
        "folder": "/var/services/surveillance/P5415-E-001",
        "tvStandard": 0,
```


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```
            "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,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0],
                "customAlarmDetect": 3,
```


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```
            "camLiveFps": 10,
            "camChannel": "1",
            "camRotOption": 0,
            "camQuality": "5",
            "camPrefix": "P5415-E-001",
            "edgeStgRetrieveAction": 2,
            "camSchedule":
[1,1,1,
```

```
            "resolution": "800x450"
        }
    ]
}
```

2.3.4.4 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.	From 1 to 8
limit	<integer>	*Optional*. Number of camera groups to be returned. If not specified, return camera groups to the end of camera group list.	From 1 to 8

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.	From 1 to 8
offset	<integer>	The shifted offset in the total result.	From 1 to 8
cameraGroups	Array of <Camera Group Object>	The camera group list.	From 1 to 8

<Camera Group Object> definition:

Key	Value	Description	Availability
id	<CAMERA_GROUP_ID>	Unique camera group ID.	From 1 to 8
name	<string>	Camera group name.	From 1 to 8
cameraIds	Array of <CAMERA_ID>	The list of camera ID within this group.	From 1 to 8
description	<string>	The description of the camera group.	From 1 to 8
privilege	<integer>	The user privilege about this camera group. Use bit operation to get the privilege. • 0x01: liveview • 0x02: playback • 0x04: lens • 0x08: audio	From 4 to 8

Example:

```
{
        "total": 38,
        "offset": 10,
        "cameraGroups": [
            {
```

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```
                        "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
                }
        ]
}
```

2.3.4.5 GetSnapshot method

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

Request

Parameter	Value	Description	Availability
id	<CAMERA_ID>	Unique camera ID.	9 and onward
name	<string>	*Optional.* The name of queried camera. This parameter only valid when “id” is not specified and “dsId“ is specified.	9 and onward
dsId	<integer>	*Optional.* The owner ds id of queried camera. Used only combined with “name“ parameter.	9 and onward
profileType	<integer>	*Optional.* Profile type of selected camera. Default value is 1. • 0 - High quality • 1 - Balanced • 2 - Low bandwidth	9 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
version=9&id=18&api="SYNO.SurveillanceStation.Camera"&method="GetSnapshot"&profileType=0
```

Response

The binary JPEG image data.

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Example: HTTP response with image data

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

<Binary JPEG image data>
```

2.3.4.6 Enable method

Enable cameras.

Request

Parameter	Value	Description	Availability
idList	<string>	The list of <CAMERA_ID> to be queried concatenated by “,”.	9 and onward

Example: Enable cameras which ids are 2 and 10.

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Camera"&method="Enable"&version=9&idList="2,10"
```

Response

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

2.3.4.7 Disable method

Disable cameras.

Request

Parameter	Value	Description	Availability
idList	<string>	The list of <CAMERA_ID> to be queried concatenated by “,”.	9 and onward

Example: Disable cameras which ids are 2 and 10.

```
http://192.168.1.1:5000/webapi/entry.cgi?
&api="SYNO.SurveillanceStation.Camera"&version=9&method="Disable"&idList="2,10"
```

Response

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

2.3.4.8 GetCapabilityByCamId method

Get capability of a specific camera by its camera Id.

Request

Parameter	Value	Description	Availability

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cameraId	<CAMERA_ID>	Unique camera ID.	From 4 to 8

Example: Get capability of camera which id is 90

```
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.	From 4 to 8
ptzTilt	<boolean>	Capability to perform tilt action.	From 4 to 8
ptzZoom	<boolean>	Capability to perform zoom action.	From 4 to 8
ptzHome	<boolean>	Capability to perform home action.	From 4 to 8
ptzPresetNumber	<integer>	The maximum number of preset supported by the model. 0 stands for preset incapability.	From 4 to 8
ptzPan	<integer>	0: doesn't support pan action. 1: support step operation 2: support continuous operation	From 5 to 8
ptzTilt	<integer>	0: doesn't support tilt action. 1: support step operation 2: support continuous operation	From 5 to 8
ptzZoom	<integer>	0: doesn't support zoom action. 1: support step operation 2: support continuous operation	From 5 to 8
ptzIris	<integer>	0: doesn't support iris action. 1: support step operation 2: support continuous operation	From 5 to 8
ptzFocus	<integer>	0: doesn't support focus action. 1: support step operation 2: support continuous operation	From 5 to 8
ptzAbs	<boolean>	Capability to perform absolute PTZ action.	From 6 to 8
ptzAutoFocus	<boolean>	Capability to perform auto focus action.	From 6 to 8
ptzDirection	<integer>	The PTZ directions that camera support	From 6 to 8
ptzSpeed	<boolean>	Capability to perform change speed.	From 6 to 8
audioOut	<boolean>	Capability to perform audio output to camera.	From 1 to 8

Example:


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


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```
        "audioOut":true
}
```

2.3.4.9 MigrationEnum method

Enumerates current status of migration

Request

Parameter	Value	Description	Availability
start	<integer>	The beginning of the enumeration list	From 7 to 8
limit	<integer>	Amount of the events for showing	From 7 to 8
ownerDsId	<integer>	The source DS ID in the CMS table	From 7 to 8

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	From 7 to 8
total	<integer>	The total number of events in the database	From 7 to 8

<Migration Info Object> definition:

Key	Value	Description	Availability
from	<integer>	The source DS of the migration	From 7 to 8
id	<integer>	ID of selected migration event	From 7 to 8
ip	<string>	IP of camera	From 7 to 8
is_rotated_by_space	<boolean>	Replacement policy once the space is full	From 7 to 8
name	<string>	Name of the camera specified at the source DS	From 7 to 8
occupied	<string>	Occupied space in the destination DS denoted in GB	From 7 to 8
progress	<float>	The completeness of the event	From 7 to 8
rotation_by_space	<string>	Parameter of the replacement policy	From 7 to 8
status	<integer>	Status of the migration event	From 7 to 8
to	<integer>	The destination DS	From 7 to 8

Example:

```
{
"data": {
    "total": 3,
    "camInfo": [
```

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```
        {
            "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
        }
    ]
}
```


2.3.4.10 Migrate method

Migrating Cameras and recorded video (optional) to specified DS

Request

Parameter	Value	Description	Availability
serverId	<integer>	The destination of the migration	From 7 to 8
camIdList	<string>	List of To-Be-Migrated cameras	From 7 to 8
delMode	<integer>	Choosing to preserve, remove or migrate recorded videos	From 7 to 8

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.

2.3.4.11 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	From 7 to 8
limit	<integer>	The number of cameras to show	From 7 to 8

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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	From 7 to 8
cam_device	Array of <Group Status Object>	The list of camera counts categorized by devic	From 7 to 8
cam_group	Array of <Group Status Object>	The list of camera counts categorized by user defined groups	From 7 to 8
cam_status	Array of <Group Status Object>	The list of camera counts categorized by camera status	From 7 to 8
server	Array of <Group Status Object>	The list of camera counts categorized by owner DS	From 7 to 8
total	<integer>	The amount of cameras	From 7 to 8

<Group Status Object> definition:

Key	Value	Description	Availability
id	<string>	The identifier of status in the selected group	From 7 to 8

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"
        },
        {
```

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```
            "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
}
```


2.3.4.12 RecountEventSize method

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

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Request

Parameter	Value	Description	Availability
camId	<integer>	Specified cam	From 7 to 8

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	From 7 to 8

Example:

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

2.3.4.13 SaveOptimizeParam method

This API is able to save the configuration of Optimization panel

Request

Parameter	Value	Description	Availability
cameraIds	<integer>	Specified cam	From 7 to 8
camParamChkList	<integer>	*Optional.* 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	From 7 to 8
timeServer	<string>	*Optional.* Specified NTP server	From 7 to 8
vdoMirror	<boolean>	*Optional.* 1 for turning on while 0 for turning off	From 7 to 8
vdoFlip	<boolean>	*Optional.* 1 for turning on while 0 for turning off	From 7 to 8
vdoRotation	<boolean>	*Optional.* 1 for turning on while 0 for turning off	From 7 to 8

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expCtrl	<integer>	*Optional.* Degree of exposure control	From 7 to 8
expMode	<integer>	*Optional.* Modes for days and nights respectively	From 7 to 8
dayBegin	<integer>	*Optional.* Determine the start hour for the schedule of day mode	From 7 to 8
dayEnd	<integer>	*Optional.* Determine the end hour for the schedule of day mode	From 7 to 8
osdStatus	<boolean>	*Optional.* Specify whether osd is turned on/off	From 7 to 8
osdFormat	<integer>	*Optional.* Determine the format of osd if supported	From 7 to 8
osdPosition	<integer>	*Optional.* Determin the position of osd	From 7 to 8

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	From 7 to 8

Example:

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

2.3.4.14 GetOccupiedSize method

This method returns the occupied volume in GigaBytes

Request

Parameter	Value	Description	Availability
camIdList	<string>	The list of <CAMERA_ID> to be queried concatenated by “,”.	From 7 to 8

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
```

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```
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"}	From 7 to 8

Example:

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

2.3.4.15 CheckCamValid method

Check if the shortcut item is valid

Request

Parameter	Value	Description	Availability
cameraId	<CAMERA_ID>	Specified Cam ID	From 7 to 8

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	From 7 to 8
itemStatus	integer	Status of the shortcut	From 7 to 8

Example:

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

2.3.4.16 MigrationCancel method

Deleting selected tasks

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Request

Parameter	Value	Description	Availability
taskIds	<string>	To-Be-Deleted tasks	From 7 to 8

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.

2.3.4.17 Delete method

Deleting selected cameras

Request

Parameter	Value	Description	Availability
idList	<string>	The list of <CAMERA_ID> to be queried concatenated by “,”.	9 and onward
keepRecording	<boolean>	To delete recorded videos or not	9 and onward

Response

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

2.3.4.18 GetLiveViewPath method

Get live view url path by camera id.

Note

The effective time of the streaming path can be set by parameter rtspPathTimeout of method SYNO.SurveillanceStation.Camera.Save.

Request

Parameter	Value	Description	Availability
idList	<string>	The list of <CAMERA_ID> to be queried concatenated by “,”.	9 and onward

Example:

```
http://192.168.1.1:5000/webapi/entry.cgi?
api="SYNO.SurveillanceStation.Camera"&method="GetLiveViewPath"&version=9&idList="14,15"
```

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Response

Key	Value	Description	Availability
data	Array of <PathInfo Object>	Detail path information of quried cameras.	9 and onward

<PathInfo Object> definition:

Key	Value	Description	Availability
id	<integer>	ID of the camera.	9 and onward
mjpegHttpPath	<string>	Mjpeg stream path(over http) of the camera	9 and onward
multicstPath	<string>	Multi-cast path of the camera.	9 and onward
mxpegHttpPath	<string>	mxpeg stream path of the camera.	9 and onward
rtspOverHttpPath	<string>	RTSP stream(over http) path of the camera.	9 and onward
rtspPath	<string>	RTSP stream path of the camera.	9 and onward

Example:


```
{
    "data" : [
      {
        "id" : 14,
        "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\"",
        "rtspOverHttpPath" : "rtsp://10.13.13.9:5000/webman/3rdparty/SurveillanceStation/cgi/rtsp.cgi?
Sms=14.unicast&DsId=0&StmKey=faaa8c5e0d20b71038e35e7e3635b0ee",
        "rtspPath" :
"rtsp://admin:faaa8c5e0d20b71038e35e7e3635b0ee@10.13.13.9:554/Sms=14.unicast"
      },
      {
        "id" : 15,
        "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\"",
        "rtspOverHttpPath" : "rtsp://10.13.13.9:5000/webman/3rdparty/SurveillanceStation/cgi/rtsp.cgi?
Sms=15.unicast&DsId=0&StmKey=faaa8c5e0d20b71038e35e7e3635b0ee",
        "rtspPath" :
"rtsp://admin:faaa8c5e0d20b71038e35e7e3635b0ee@10.13.13.9:554/Sms=15.unicast"
      }
    ]
```


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```
}
```

2.3.4.19 API Error Code

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

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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	<CAMERA_ID>	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

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<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	<CAMERA_ID>	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

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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	<CAMERA_ID>	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

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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	<CAMERA_ID>	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
mode	<integer>	*Optional.* Define the keep thie camera original setting. e.g. 0:keep camera setting and 1:not keep camera 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=16&version="1"&api="SYNO.SurveillanceStation.Camera.Event"&threshol
d=20&sensitivity=90&percentage=50&method="MDParamSave"&mode=1
```

Response

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

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Example:

```
{
  "data" : {
    "camId" : 16
  },
  "httpd_restart" : false,
  "success" : true
}
```

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	<CAMERA_ID>	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

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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,
```

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```
            "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	<CAMERA_ID>	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	<CAMERA_ID>	The selected camera id.	4 and onward

Example:

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

2.3.5.7 DIParamSave method

Save digital input parameters. e.g. normal

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Request

Parameter	Value	Description	Availability
camId	<CAMERA_ID>	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	<CAMERA_ID>	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	<CAMERA_ID>	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

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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	<CAMERA_ID>	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	<CAMERA_ID>	The selected camera id.	4 and onward

Example:

```
{
```

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

2.3.5.10 API Error Code

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

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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

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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,
```


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```
            "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"
```

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```
            }
        ],
        "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.

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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:

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```
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,
```


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```
            "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": [
                {
                    "camPath":
"cnRzcDovL2FkbWluOnN5bm8xMjM0QDEwLjE3LjUyLjIwOTo1NTQvbGl2ZTEuc2Rw",
                    "fps": 15,
                    "quality": "5",
                    "resolution": "2592x1944",
                    "stmNo": 1,
                    "type": 0
```


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```
                },
                {
                    "camPath":
"cnRzcDovL2FkbWluOnN5bm8xMjM0QDEwLjE3LjUyLjIwOTo1NTQvbGl2ZTEuc2Rw",
                    "fps": 15,
                    "quality": "5",
                    "resolution": "2592x1944",
                    "stmNo": 1,
                    "type": 1
                },
                {
                    "camPath":
"cnRzcDovL2FkbWluOnN5bm8xMjM0QDEwLjE3LjUyLjIwOTo1NTQvbGl2ZTEuc2Rw",
                    "fps": 15,
                    "quality": "5",
                    "resolution": "2592x1944",
                    "stmNo": 1,
                    "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,
```


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```
                "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,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0],
                "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
,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
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
```


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```
            },
            "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"
```

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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="Archi
veEnum"
```

Response

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

<CamImportList Object> definition:

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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.

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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
CheckSDCardSize	2.3.8.1	4 and onward
CheckQuota	2.3.8.2	4 and onward
CamBatAddSaveAll	2.3.8.3	4 and onward
FormatSDCard	2.3.8.4	4 and onward
QuickCreate	2.3.8.5	4 and onward

2.3.8.1 CheckSDCardSize method

Check the available size in SD card

Request

Parameter	Value	Description	Availability
camId	<CAMERA_ID>	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"
```

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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
}
```

2.3.8.2 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
}
```

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2.3.8.3 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 • 1: WALL • 2: FLOOR	4 and onward
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="CheckSDCardSize"&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%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":

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```
""}&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
}
```

2.3.8.4 FormatSDCard method

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

Request

Parameter	Value	Description	Availability
camId	<CAMERA_ID>	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:

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

2.3.8.5 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

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Key	Value	Description	Availability
camId	<CAMERA_ID>	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",
```


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```
            "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": [
              {
                "camPath":
"cnRzcDovL2FkbWluOnN5bm8xMjM0QDEwLjE3LjUyLjIwOTo1NTQvbGl2ZTEuc2Rw",
                "fps": 15,
                "quality": "5",
                "resolution": "2592x1944",
                "stmNo": 1,
                "type": 0
              },
              {
                "camPath":
"cnRzcDovL2FkbWluOnN5bm8xMjM0QDEwLjE3LjUyLjIwOTo1NTQvbGl2ZTEuc2Rw",
                "fps": 15,
```


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```
                "quality": "5",
                "resolution": "2592x1944",
                "stmNo": 1,
                "type": 1
            },
            {
                "camPath":
"cnRzcDovL2FkbWluOnN5bm8xMjM0QDEwLjE3LjUyLjIwOTo1NTQvbGl2ZTEuc2Rw",
                "fps": 15,
                "quality": "5",
                "resolution": "2592x1944",
                "stmNo": 1,
                "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",
```


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"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
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0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0],
"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,

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```
            "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
}
```


2.3.8.6 API Error Code

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

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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
Home	2.3.9.11	5 and onward
AutoPan	2.3.9.12	5 and onward
ObjTracking	2.3.9.13	5 and onward

2.3.9.1 Move method

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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&moveType=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,	*Optional*.	3 and onward

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	Stop	Start continous move Stop continous move	

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*. 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 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:

```
{
```

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```
        “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

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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]
```

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```
                }
        ]
}
```

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

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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

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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 Home method

Move the camera PTZ to Home position.

Request

Parameter	Value	Description	Availability
cameraId	<CAMERA_ID>	Unique camera ID.	5 and onward

Example:

```
GET /webapi/entry.cgi?api=SYNO.SurveillanceStation.PTZ&method=Home&version=5&cameraId=10
```

Response

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

2.3.9.12 AutoPan method

Start or stop the camera auto pan.

Request

Parameter	Value	Description	Availability
cameraId	<CAMERA_ID>	Unique camera ID.	5 and onward
moveType	<string>	*Optional.* Start or Stop camera auto pan, default to start. "Step": Start "Stop": Stop	5 and onward

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Example:

```
GET /webapi/entry.cgi?api=SYNO.SurveillanceStation.PTZ&method=AutoPan&version=5&cameraId=10
```

Response

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

2.3.9.13 ObjTracking method

Start or stop the camera moving object tracking.

Request

Parameter	Value	Description	Availability
cameraId	<CAMERA_ID>	Unique camera ID.	5 and onward
moveType	<string>	*Optional.* Start or Stop object tracking, default to start. "Step": Start "Stop": Stop	5 and onward

Example:

```
GET /webapi/entry.cgi?api=SYNO.SurveillanceStation.PTZ&method=ObjTracking&version=5&cameraId=10
```

Response

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

2.3.9.14 API Error Code

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

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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.

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2.3.11 SYNO.SurveillanceStation.Recording

This API provides method to query recording information.

API Name	Version	Availability
SYNO.SurveillanceStation.Recording	1	Surveillance Station 6.0-2337
	3	Surveillance Station 6.3
	4	Surveillance Station 7.0
	6	Surveillance Station 8.0

Method Name	Section	Availability
List	2.3.11.1	6 and onward
Delete	2.3.11.2	6 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	6 and onward
UnLockFilter	2.3.11.12	4 and onward
Lock	2.3.11.13	6 and onward
Download	2.3.11.14	6 and onward
CheckEventValid	2.3.11.15	4 and onward
Stream	2.3.11.16	6 and onward
RangeExport	2.3.11.17	6 and onward
GetRangeExportProgress	2.3.11.18	6 and onward
OnRangeExportDone	2.3.11.19	6 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.	6 and onward
limit	<integer>	*Optional*. Number of recordings to be returned. If not specified, return recordings to the end of recording list.	6 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	6 and onward

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		related events.	
fromTime	<integer>	*Optional*. Query start time. If not specified, the default value is 0.	6 and onward
toTime	<integer>	*Optional*. Query stop time. If not specified, the default value is 0.	6 and onward
dsId	<integer>	*Optional.* The owner ds id of queried recordings.	6 and onward
mountId	<integer>	*Optional.* The mount id of queried recording.	6 and onward

Example:

```
GET /webapi/entry.cgi?
version=6&cameraIds="1,2"&api="SYNO.SurveillanceStation.Recording"&toTime=0&offset=0&limit=80&fro
mTime=0&method="List"
```

Response

Key	Value	Description	Availability
total	<integer>	The number of total recordings.	total
recordings	Array of <recordings>	List of the queried recordings.	recordings
dsId	<integer>	The belonged ds id of queried recordings.	dsId

<recordings> definition:

Key	Value	Description
id	<integer>	The id of the recording
videoCodec	<integer>	The video codec of the recording. • 0 - Unknown • 1 - MJPEG • 2 - MPEG4 • 3 - H264 • 5 - MXPEG • 6 - H265 • 7 - H264+
audioCodec	<integer>	The audio codec of the recording. • 0 - Unknown • 1 - PCM • 2 - G711 • 3 - G726 • 4 - AAC • 5 - AMR • 6 - UserDefine (use only with user define camera)
height	<integer>	The image height of the recording.
width	<integer>	The image width of the recording.
cameraId	<integer>	The belonged camera id of the recording.
cameraName	<integer>	The belonged camera name of the recording.
sizeByte	<integer>	The size of the recording.
filePath	<integer>	The file path of the recording.

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locked	<boolean>	The recording is locked or not.

Example:


```
{
    "dsId": 0,
    "total": 3,
    "recordings": [
        {
            "audioCodec": "",
            "videoCodec": "MJPEG",
            "width": 640,
            "filePath": "20141030PM/TVIP2155220141030-224911-1414680551.avi",
            "id": 46,
            "cameraName": "TVIP21552",
            "cameraId": 13,
            "sizeByte": 1041280,
            "height": 480,
        },
        {
            "audioCodec": "",
            "videoCodec": "MJPEG",
            "width": 640,
            "filePath": "20141030PM/TVIP2155220141030-224911-1414680851.avi",
            "id": 47,
            "cameraName": "TVIP21552",
            "cameraId": 13,
            "sizeByte": 1041280,
            "height": 480,
        },
        {
            "audioCodec": "",
            "videoCodec": "MJPEG",
            "width": 640,
            "filePath": "20141030PM/TVIP2155220141030-224911-1414681151.avi",
            "id": 48,
            "cameraName": "TVIP21552",
            "cameraId": 13,
            "sizeByte": 1041280,
            "height": 480,
        }
    ]
}
```


2.3.11.2 Delete method

Delete recordings with selection.

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Request

Parameter	Value	Description	Availability
idList	<string>	The list of recording id to be deleted concatenated by ",".	6 and onward
dsId	<integer>	*Optional.* The owner ds id of recording to be deleted.	6 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Recording"&idList="13,14"&version=6&method="Delete"
```

Response

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

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 • 10: Advanced Continuous	3 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.	3 and onward
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*.	3 and onward

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		Query stop time. If not specified, this parameter will be ignored and get all related events.	
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.Recording"&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.Recording"&version="4"&method="DeleteAll"
```

Response

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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.Recording"&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 ",".	4 and onward

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		• 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 • 10: Advanced Continuous	
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.SurveillanceStation.Recording"&evtSrcId=-1&toTime=0&limit=0&fromTime=0&method="CountByCategory"&timezoneOffset=480&includeAllCam=true
```

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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
        }
```

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```
    },
    "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.Recording"&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:

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```
GET /webapi/entry.cgi?api="SYNO.SurveillanceStation.Recording"&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.Recording"&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 • 3: Alarm Recording • 4: Custom Recording • 5: Manual Recording	4 and onward

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		• 6: External Recording • 7: Analytics Recording • 8: Edge Recording • 9: Action Rule Recording • 10: Advanced Continuous	
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.Recording"&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 recordings.

Request

Parameter	Value	Description	Availability
idList	<string>	The list of recording id to be unlocked concatenated by ",".	6 and onward
dsId	<integer>	*Optional.*	6 and onward

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		The belonged ds id of recordings to be unlocked.	

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Recording"&idList="13,14"&dsId=0&version=6&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 • 10: Advanced Continuous	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,	*Optional*. The filtered source. • 0: None	4 and onward

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	3	• 1: Local • 2: Recording Server • 3: Mount If not specified, the default value is 0.	
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.Recording"&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 recordings

Request

Parameter	Value	Description	Availability
idList	<string>	The list of recording id to be locked concatenated by ",".	6 and onward
dsId	<integer>	*Optional.* The belonged ds id of recordings to be locked.	6 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Recording"&idList="13,14"&version=6&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 recording.

Request

Parameter	Value	Description	Availability
id	<integer>	Id of recording.	6 and onward

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		If not specified, the default value will be 0.	
mountId	<integer>	*Optional*. Mount id of recording. If not specified, the default value will be 0.	6 and onward
offsetTimeMs	<integer>	*Optional*. The start time offset of the download recording.	6 and onward
playTimeMs	<integer>	*Optional.* The duration of the download recording.	6 and onward

Example:

```
GET /webapi/entry.cgi/test.mp4?
id=5753&version=6&mountId=0&api="SYNO.SurveillanceStation.Recording"&method="Download"&offsetTimeMs=2000
```

Response

MP4 file data.

Note

You could assign download file name in the webapi. The example show the case which downloaded the file name is “test.mp4”.

2.3.11.15 CheckEventValid method

Check if recording playable.

Request

Parameter	Value	Description	Availability
eventId	<integer>	*Optional*. Id of event. If not specified, the default value will be 0.	4 and onward
chkDetail	<boolean>	*Optional*. Default value: true. Check camera playback privilege and recording existence.	4 and onward
mountId	<integer>	*Optional*. Default value: 0. Check if mount status normal for mounted recording.	4 and onward
dsId	<integer>	*Optional*. Default value: 0. Check if recording server status normal for recording on slave ds.	4 and onward

Example:

```
GET /webapi/entry.cgi?
eventId=5753&version="4"&api="SYNO.SurveillanceStation.Recording"&method="CheckEventValid"
```

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Response

Key	Value	Description	Availability
itemStatus	<integer>	If recording playable. 0: Normal 1: Not Exist 2: No Privilege	4 and onward

Example:

```
{
  "itemStatus": 0
}
```

2.3.11.16 Stream method

Play a specific recording.

Request

Parameter	Value	Description	Availability
recordingId	<integer>	*Optional*. Id of recording.	6 and onward
dsId	<integer>	*Optional*. Owner ds id of recording.	6 and onward
mountId	<integer>	*Optional*. Mount id of recording.	6 and onward
alertRecording	<boolean>	*Optional*. True if played recording is triggered by live view alert. The default value is false.	6 and onward
videoCodec	<integer>	*Optional.* Recording video codec. Only valid when playing non local recordings. • 0 - Unknown • 1 - MJPEG • 2 - MPEG4 • 3 - H264 • 5 - MXPEG • 6 - H265 • 7 - H264+	6 and onward

Example:

```
GET /webapi/entry.cgi?
recordingId=5753&version=6&api="SYNO.SurveillanceStation.Recording"&method="Stream"&dsId=0
```

Response

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For MJPEG recording, 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:

Example 1: MJPEG recording stream

```
HTTP/1.1 200 OK
Date: Fri, 25 May 2012 05:59:39 GMT
Server: nginx
Keep-Alive: timeout=20
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>
...
```

For other codec recording, 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	video/mp4 – MPEG4/H.264 format recording.

Example 2: MPEG4 recording stream**.**

```
HTTP/1.1 206 Partial Content
Date: Mon, 05 Mar 2012 15:50:34 GMT
Server: nginx
Accept-Ranges: bytes
Content-Length: 9298055
Content-Range: bytes 19244797-28542851/28542852
Connection: keep-alive
Content-Type: video/mp4

<MPEG4 recording file data>
```

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2.3.11.17 RangeExport method

Download the merged files of UTC time range recordings of target camera.

If there are different resolution or codec within UTC time range, the recordings will merge as much as possible and downlod file will be a zip file.

Request

Parameter	Value	Description	Availability
camId	<integer>	Id of camera.	6 and onward
fromTime	<integer>	The start of UTC time range.	6 and onward
toTime	<integer>	The end of UTC time range.	6 and onward
fileName	<string>	Download file name without file extension. Use for included recording name if zip file needed.	6 and onward

Example:

```
GET /webapi/entry.cgi?
camId=366&fileName="video"&fromTime=1584933650&toTime=1584934152&api="SYNO.SurveillanceStation.Recording"&method="RangeExport"&version=6
```

Response

Name	Value	Description	Availability
dlid	<integer>	The download id of this range export task.	6 and onward

Note

This method will start a task which have keep-alive mechanism.

Use GetRangeExportProgress method to get newest progress and keep-alive.

After receiving progress 100, use OnRangeExportDone method to download exported recording within 1 minutes.

If you want to cancel range export task, just do not send GetRangeExportProgress method or OnRangeExportDone method. System will cleanup processed files itself.

2.3.11.18 GetRangeExportProgress method

Get newest progress and keep-alive of RangeExport method.

Request

Parameter	Value	Description	Availability
dlid	<integer>	Response of RangeExport method.	6 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Recording"&method="GetRangeExportProgress"&version=6&dlid=20069
```

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Response

Name	Value	Description	Availability
progress	<integer>	The progress of target RangeExport method task. Receive -1 if task failed.	6 and onward
fileExt	<string>	"zip", “mp4" or empty. Reval response data of OnRangeExportDone method if progress is 100.	6 and onward

Note

OnRangeExportDone method must send within each 20 seconds to keep RangeExport method task alive.

2.3.11.19 OnRangeExportDone method

Download recording from target RangeExport method.

Request

Parameter	Value	Description	Availability
dlid	<integer>	Response of RangeExport method.	6 and onward
fileName	<string>	Download file name without file extension. Use for zip file name if zip file needed.	6 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Recording"&method="OnRangeExportDone"&version=6&dlid=20069&&file
Name="video"
```

Response

MP4 or zip file data.

The response type can be found in fileExt of GetRangeExportProgress method response when progress 100.

Note

GetRangeExportProgress method must be sent within 1 minute after corresponding RangeExport method task is completed, otherwise the exported recordings will be cleared.

2.3.11.20 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.
405	CMS server connection failed.
414	Some events not exist.

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439	Too many items selected.

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2.3.12 SYNO.SurveillanceStation.Recording.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.Recording .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.Recording.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

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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.Recording.Export"&version="1"&dsId=0&method="CheckName"
```

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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.Recording.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	1 and onward

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		• 2: Unreachable • 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?
```

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```
camIdList="32,33,34"&version="1"&freeSize=881508&method="CheckAvailableExport"&api="SYNO.SurveillanceStation.Recording.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

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Example:

```
GET /webapi/entry.cgi?
srcDsId=0&isoverwrite=0&name="asdf"&dstdir="test"&start_time=1425398400&freesize=881508&method="Save"&api="SYNO.SurveillanceStation.Recording.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.Recording.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

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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.

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2.3.13 SYNO.SurveillanceStation.Recording.Mount

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

API Name	Version	Availability
SYNO.SurveillanceStation.Recording.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.Recording.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

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<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

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		• -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":
"0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000001111111111111111111111111111111111110000011111111111
1111111111111111111111100000111111111111111111111111111111111110000011111111111111111111
1111111111111111100000111111111111111111111111111111111110000011111111111111111111111111
1111111111100000111111111111111111111111111111111110000011111111111111111111111111111111
1111100000111111111111111111111111111111111110000011111111111111111111111111111111110
0000111111111111111111111111111111111110000011111111111111111111111111111111110000011
1111111111111111111111111111111110000011111111111111111111111111111111110000011111111
1111111111111111111111111100000111111111111111111111111111111111100000111111111111111
1111111111111111111100000111111111111111111111111111111111110000011111111111111111111
1111111111111100000111111111111111111111111111111111110000011111111111111111111111111
1111111100000111111111111111111111111111111111110000011111111111111111111111111111111
1110000011111111111111111111111111111111111110000011111111111111111111111111111111111",
                    "camMountType": 0,
                    "id": 38,
                    "name": "FE8172-001",
                    "analyticsSens": 1,
                    "feRegionList": [
                        {
                            "camId": 38,
                            "name": "Default Region",
                            "zoom": 25,
```


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```
                "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
}
]
```


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```
}
```

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.

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2.3.14 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	2.3.14.1	1 and onward
ModifySharePriv	2.3.14.2	1 and onward
ApplyOption	2.3.14.3	1 and onward
GetInfo	2.3.14.4	1 and onward
DoSyncData	2.3.14.5	1 and onward
CheckSambaEnabled	2.3.14.6	1 and onward
BatCheckSambaService	2.3.14.7	1 and onward
GetMDSnapshot	2.3.14.8	1 and onward
GetCMSStatus	2.3.14.9	1 and onward
EnableSamba	2.3.14.10	1 and onward
NotifyCMSBreak	2.3.14.11	1 and onward
LockSelf	2.3.14.12	1 and onward

2.3.14.1 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.

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2.3.14.2 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
}
```

2.3.14.3 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

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		• 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

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		• 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
}
```

2.3.14.4 GetInfo method

Get CMS related info.

Request

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

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		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

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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
}
```

2.3.14.5 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

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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
      }
   ]
}
```

2.3.14.6 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

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Example:

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

2.3.14.7 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
}
```

2.3.14.8 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?
```

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```
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)
}
```

2.3.14.9 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
}
```

2.3.14.10 EnableSamba method

Enable Samba service.

Request

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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.

2.3.14.11 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.

2.3.14.12 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.

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2.3.14.13 API Error Code

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

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2.3.15 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	2.3.15.1	1 and onward
UnPair	2.3.15.2	1 and onward
GetFreeSpace	2.3.15.3	1 and onward
Lock	2.3.15.4	1 and onward
Test	2.3.15.5	1 and onward
Logout	2.3.15.6	1 and onward
Pair	2.3.15.7	1 and onward
Login	2.3.15.8	1 and onward

2.3.15.1 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"
```

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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
}
```

2.3.15.2 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

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		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.

2.3.15.3 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
}
```

2.3.15.4 Lock method

Handle lock slave ds.

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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.SurveillanceStation.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

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		• 16: License invalid	

Example:

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

2.3.15.5 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

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		• 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
}
```

2.3.15.6 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

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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
}
```

2.3.15.7 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

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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"&dsname="DiskStation"&cms_locked=true&method="Pair"&mac="00113235D696"&api="SYNO.SurveillanceStation.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	

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		• 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"
}
```

2.3.15.8 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

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		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

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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

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		• 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
}
```

2.3.15.9 API Error Code

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

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2.3.16 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	2.3.16.1	1 and onward

2.3.16.1 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

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		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.

2.3.16.2 API Error Code

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

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2.3.17 SYNO.SurveillanceStation.CMS.SlavedsList

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

API Name	Version	Availability
SYNO.SurveillanceStation.CMS.SlavedsList	1	Surveillance Station 8.0

Method Name	Section	Availability
Load	2.3.17.1	1 and onward

2.3.17.1 Load method

Handle Load slave ds list.

Request

Parameter	Value	Description	Availability
blNeedStatus	<boolean>	*Optional*. Get DS status or not. If false, Get enabled DS only. If not specified, the default value will be false.	1 and onward
blGetSortInfo	<boolean>	*Optional*. Get list sort info or not. If not specified, the default value will be false.	1 and onward
blRuntimeInfo	<boolean>	*Optional*. Consider “Under failover” case or not. If true, The DS under failover and in the specified mode will be filtered out. If not specified, the default value will be true.	1 and onward
slaveMode	-1 … 1	*Optional*. Load only specified mode DS. • -1: All slave mode. • 0: Recording mode only. • 1: Failover mode only. If not specified, the default value will be -1.	1 and onward
dsIds	<string>	*Optional*. The list of <DS_ID> to be queried concatenated by “,”. If not specified, this parameter will be ignored and get all DS.	1 and onward
sortInfo	<Type, Order>	*Optional*. Set sort info, blGetSortInfo must be true. Type: • id	1 and onward

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		• name • ip • version Order: • asc • desc	

Example:

```
GET /webapi/entry.cgi?
api=SYNO.SurveillanceStation.CMS.SlavedsList&version=1&method=Load&blNeedStatus=true&blGetSortInfo=true&sortInfo="ip,asc"
```

Response

Key	Value	Description	Availability
slaveds	Array of <DS Object>	The list of queried slave DS.	1 and onward
sortInfo	<Type,Order>	The sort info of slave DS list.	1 and onward
total	<integer>	Total number of slave DS.	1 and onward

<DS Object> definition:

Key	Value	Description	Availability
accessToken	<string>	Access token of slaves DS.	1 and onward
cms_locked	<boolean>	Does slave DS locked or not.	1 and onward
cms_masked	<boolean>	Does slave DS masked or not.	1 and onward
connectType	0 ... 1	Connect type of slaves DS. • 0: Connect by IP or domain name. • 1: Connect by Quickconnect.	1 and onward
cookie	<string>	Cookie token of slave DS.	1 and onward
curr_cam_num	<integer>	Current number of cameras used.	1 and onward
curr_dev_num	<integer>	Current number of all device used.	1 and onward
curr_io_num	<integer>	Current number of iomodule used.	1 and onward
curr_speaker_dev_num	<integer>	Current number of speaker used.	1 and onward
curr_trans_dev_num	<integer>	Current number of transactions device used.	1 and onward
default_license	<integer>	Default license number of slaves DS.	1 and onward
dp_version	<string>	Device Pack version of slaves DS.	1 and onward
ds_model	<string>	Model name of slaves DS.	1 and onward
dsm_version	<string>	DSM version of slaves DS.	1 and onward
enable	<boolean>	Does slave DS enabled or not.	1 and onward
failoverReason	0 ... 6	Reason for failover. • 0: None • 1: Disconnected • 2: Volume crashed • 3: Volume degraded	1 and onward

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		• 4: Manual • 5: Package uninstalled • 6: Package disabled	
failoverServer	<string>	Id of failover server.	1 and onward
failoverServerSts	0 … 20	Connection status of failover server. • 0: Normal • 1: Disable • 2: Unauthorized • 3: Disconnect • 4: Deleted • 5: Inaccessible • 6: Occupied • 7: Configuring • 8: Wrong type (CMS mode does not match expectations) • 9: License duplicated • 10: Not admin user • 11: Insufficient license • 12: Server duplicated • 13: Unknow • 14: Recording storage removed • 15: Incompatible • 16: License invalid • 17: Normal in one way (Only host can connect to slave) • 18: Failovered • 19: Slave mode mismatch • 20: Unpaired	1 and onward
failoverStatus	0 … 4	Failover execution status • 0: None • 1: Failovering • 2: Recovering • 3: Failover error • 4: Wait manual restore	1 and onward
failover_pair_id	<integer>	Pair ID of failover DS.	1 and onward
id	<integer>	ID of slave DS.	1 and onward
ip	<string>	IP of slave DS.	1 and onward
key_total	<integer>	The total number of licenses	1 and onward
key_used	<integer>	The used number of licenses	1 and onward
max_cam_num	<integer>	Maximum number of cameras can be set.	1 and onward
max_io_num	<integer>	Maximum number of iomodules can be set.	1 and onward
max_speaker_dev_num	<integer>	Maximum number of speakers can be set.	1 and onward
max_trans_dev_num	<integer>	Maximum number of transactinos devices can be set.	1 and onward
name	<string>	Name of slave DS.	1 and onward
pkgStatus	0 … 12	Package execution status • 0: Unknow • 1: Running • 2: Stop	1 and onward

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		• 3: Installing • 4: Not installed • 5: Upgrading • 6: Repairing • 7: Uninstalling • 8: Starting • 9: Stopping • 10: Need to upgrade • 11: Broken • 12: Unavailable	
port	<integer>	Port of slave DS.	1 and onward
quickConnectId	<string>	QuickConnect Id of slave DS.	1 and onward
recoverProgress	<integer>	Recovering progress.	1 and onward
serial_num	<string>	Serial number of slave DS.	1 and onward
slave_mode	-1 … 1	Slave mode of slave DS. • -1: All • 0: Recording • 1: Failover	1 and onward
ss_version	<string>	Surveillance Station version of slave DS.	1 and onward
status	0 … 20	Connection status of slave DS. • 0: Normal • 1: Disable • 2: Unauthorized • 3: Disconnect • 4: Deleted • 5: Inaccessible • 6: Occupied • 7: Configuring • 8: Wrong type (CMS mode does not match expectations) • 9: License duplicated • 10: Not admin user • 11: Insufficient license • 12: Server duplicated • 13: Unknow • 14: Recording storage removed • 15: Incompatible • 16: License invalid • 17: Normal in one way (Only host can connect to slave) • 18: Failovered • 19: Slave mode mismatch • 20: Unpaired	1 and onward
status_flags	0,1,2,4,16,32	Execution status of slave DS. • 0: None • 1: Enabling • 2: Disabling • 4: Deleting • 8: Locking • 16: Unlocking	1 and onward

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		• 32: Configuring	
useHttps	<boolean>	Does slave DS used https or not.	1 and onward
volSpace	<double>	Volume space of slave DS.	1 and onward
volStatus	0 … 2	Volume status of slave DS. • 0: Normal • 1: Degrade • 2: Crash	1 and onward

Example:


```
{
  "data": {
    "slaveds": [
      {
        "accessToken": "y2ogsFzTM5DCQ1680O7N631502",
        "cms_locked": true,
        "cms_masked": false,
        "connectType": 0,
        "cookie": "",
        "curr_cam_num": 1,
        "curr_dev_num": 3,
        "curr_io_num": 0,
        "curr_speaker_dev_num": 1,
        "curr_trans_dev_num": 1,
        "default_license": 2,
        "dp_version": "5.7.0-2602",
        "ds_model": "DS716+II",
        "dsm_version": "6.2-23739",
        "enable": false,
        "failoverReason": 0,
        "failoverServer": "",
        "failoverServerSts": 0,
        "failoverStatus": 0,
        "failover_pair_id": -1,
        "id": 3,
        "ip": "10.13.21.110",
        "key_total": 2,
        "key_used": 0,
        "max_cam_num": 40,
        "max_io_num": 40,
        "max_speaker_dev_num": 40,
        "max_trans_dev_num": 40,
        "name": "Blake716",
        "pkgStatus": 2,
        "port": 5000,
        "quickConnectId": "",
        "recoverProgress": 0,
        "serial_num": "1680O7N631502",
        "slave_mode": 0,
        "ss_version": "8.2.0-5705",
```


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```
            "status": 1,
            "status_flags": 0,
            "useHttps": false,
            "volSpace": 889.826252,
            "volStatus": 0
        },
        {
            "accessToken": "lgojFoTfgr2xk1680NEN426804",
            "cms_locked": true,
            "cms_masked": false,
            "connectType": 0,
            "cookie": "id=HdAclolPThLeo",
            "curr_cam_num": 0,
            "curr_dev_num": 0,
            "curr_io_num": 0,
            "curr_speaker_dev_num": 0,
            "curr_trans_dev_num": 0,
            "default_license": 2,
            "dp_version": "5.7.0-2602",
            "ds_model": "DS216play",
            "dsm_version": "6.1.6-15266",
            "enable": true,
            "failoverReason": 0,
            "failoverServer": "",
            "failoverServerSts": 0,
            "failoverStatus": 0,
            "failover_pair_id": -1,
            "id": 4,
            "ip": "10.13.21.111",
            "key_total": 2,
            "key_used": 0,
            "max_cam_num": 15,
            "max_io_num": 15,
            "max_speaker_dev_num": 15,
            "max_trans_dev_num": 15,
            "name": "blake216",
            "pkgStatus": 1,
            "port": 5000,
            "quickConnectId": "",
            "recoverProgress": 0,
            "serial_num": "1680NEN426804",
            "slave_mode": 0,
            "ss_version": "8.2.0-5706",
            "status": 0,
            "status_flags": 0,
            "useHttps": false,
            "volSpace": 5540.297660827637,
            "volStatus": 0
        }
    ],
    "total": 2
```


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```
    },
    "success": true
}
```

2.3.17.2 API Error Code

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

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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

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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
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 and onward

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		• -1: Total number count. • 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,
```

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```
    "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

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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
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"&blClearAll=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

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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

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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

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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": {
```


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```
            "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

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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,"enabl
e":1},{"SSLogType":321912836,"enable":0}]
```

Response

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

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2.3.18.6 API Error Code

Code	Description
400	Execution failed.

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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
blCMSLosthost	<boolean>	Is CMS host lost.	1 and onward
keyPostponedCnt	<integer>	Number of postponed key.	1 and onward
key_max	<integer>	Maximum IP camera number in NAS.	1 and onward
key_total	<integer>	Number of total license.	1 and onward
key_used	<integer>	Number of used license.	1 and onward
license_num	<integer>	Number of license key.	1 and onward
localAcsCnt	<integer>	Number of AXIS control door.	1 and onward
localCamCnt	<integer>	Number of Acting Camera.	1 and onward
localIOCnt	<integer>	Number of IO module.	1 and onward

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localKeyTotal	<integer>	Number of license in this NAS.	1 and onward
localSpeakerCnt	<integer>	Number of IP speaker.	1 and onward
localTransCnt	<integer>	Number of transaction.	1 and onward
slaveDsCnt	<integer>	Number of slave DS.	1 and onward
success	<boolean>	Load successly or not.	1 and onward

Example:

```
{
  "data" : {
    "blCMSLosthost" : true,
    "keyPostponedCnt" : 0,
    "key_max" : 12,
    "key_total" : 4,
    "key_used" : 0,
    "license_num" : 1,
    "localAcsCnt" : 0,
    "localCamCnt" : 0,
    "localIOCnt" : 0,
    "localKeyTotal" : 4,
    "localSpeakerCnt" : 0,
    "localTransCnt" : 0,
    "slaveDsCnt" : 0,
    "success" : true
  },
  "httpd_restart" : 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

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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.

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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&method="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.

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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

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		• 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

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<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

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		• 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="1231"&ruleType=0&actType=0&evtSrc=1&evtDsId=0&evtDevId=-
1&evtId=1&evtItem=-1&evtMinIntvl=10&actions=%5B
%7B"id"%3A1,"actSrc"%3A4,"actDsId"%3A0,"actDevId"%3A0,"actId"%3A11,"actItemId"%
3A15,"actTimes"%3A1,"actTimeUnit"%3A1,"actTimeDur"%3A"10","actRetPos"%3A-
1,"extUrl"%3A"","userName"%3A"","password"%3A""%7D
%5D&actSchedule="111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111
```

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

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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,
```

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```
            "extUrl": "",
            "actDevName": "axis p3384",
            "evtDevName": "axis p3384",
            "actType": 0,
            "id": 82,
            "actId": 9,
            "actSchedule":
"111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111111",
            "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

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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:

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```
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,
```

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```
            "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.

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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 8.0

Method Name	Section	Availability
List	2.3.22.1	1 and onward
Load	2.3.22.2	1 and onward

2.3.22.1 List method

Get the list of all E-Maps.

Request

Parameter	Value	Description	Availability
start	<integer>	*Optional*. Start searching after the specified number data. If not specified, the offset will be 0.	1 and onward
limit	<integer>	*Optional*. Number of emaps to be returned. If not specified, return E-Maps to the end of E-Map list.	1 and onward
emapIds	<string>	*Optional*. The list of <EMAP_ID> to be queried concatenated by “,”. If not specified, this parameter will be ignored and get all emaps.	1 and onward
includeImage	<boolean>	*Optional*. Include complete image or not. If not specified, the default value is false.	1 and onward
includeItems	<boolean>	*Optional*. Include all item on emap or not. If not specified, the default value is false.	1 and onward

Example: List 2 E-Maps starting from offset 10, include Image and Items.

```
GET /webapi/entry.cgi?
api=SYNO.SurveillanceStation.Emap&version=1&method=List&start=10&limit=2&includeImage=true&includeItems=true
```

Response

Key	Value	Description	Availability
total	<integer>	The number of total E-maps.	1 and onward
success	<boolean>	The method result.	1 and onward
emap	Array of <E-Map Object>	The list of queried E-Maps.	1 and onward

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<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
filename	<string>	Name of image file.	1 and onward
filesize	<integer>	Size of image file.	
imageWidth	<integer>	Image width of the E-Map image.	1 and onward
imageHeight	<integer>	Image height of the E-Map image.	1 and onward
imageData	<string>	Image data in base64 format.	
item	Array of <E-Map Item Object>	The list of items marked on the E-Map.	1 and onward
hideItemName	<boolean>	Does item name hide or not	

<E-Map Item Object> definition:

Key	Value	Description	Availability
id	<Item_ID>	Item ID.	1 and onward
name	<string>	Item name.	1 and onward
type	0 … 6	Type of the E-Map item. • 0: Camera • 1: E-Map • 2: Door • 3: IOModule • 4: Transactions Device • 5: IP Speaker • 6: IP Speaker Group	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
uniqueId	<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>. And so on.	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
x	<integer>	X-coordinate of the E-Map item assuming that top-left of the E-Map is the origin.	1 and onward
y	<integer>	Y-coordinate of the E-Map item assuming that top-left of the E-Map is the origin.	1 and onward
iconCenterX	<integer>	X-coordinate of the E-Map item icon certer assuming that top-left of the E-Map is the origin.	1 and onward
iconCenterY	<integer>	Y-coordinate of the E-Map item icon certer assuming that top-left of the E-Map is the origin.	1 and onward
direction	0 … 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	1 and onward

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		• 6: Southward • 7: Southwestward	
blPlayback	<boolean>	This item can be played or not.	1 and onward
camIdOnRec	0, <CAMERA_ID>	ID of the camera or the paired camera of item on recording server. 0: On local host. <CAMERA_ID>: Cam ID on recording server.	1 and onward
camVideoType	1 … 8	Video type of the camera or the paired camera of item. • 1: MJPEG • 2: MPEG4 • 3: H264 • 4: EMAP • 5: MXPEG • 6: H265 • 7: H264+ • 8: H265+	1 and onward
deviceType	1, 2, 4, 8, 16, 32, 64, 128, 256, 512	Type of Camera or E-Map item. • 1: Camera • 2: Video server • 4: PTZ Camera • 8: Fisheye Camera • 16: IO Module • 32: Door controller • 64: Multi lens Camera • 128: Intercom • 256: Transactions Device • 512: IP Speaker	1 and onward
portIdx	<integer>	Port index of Item. Will be -1, If the item dont have any port.	
status	1 ... 18	Indicating the Item status • 1: Normal • 2: Deleted • 3: Disconnected • 4: Unavailable • 5: Ready • 6: Inaccessible • 7: Disabled • 8: Unrecognized • 9: Setting • 10: Server disconnected • 11: Migrating • 12: Others • 13: Storage removed • 14: Stopping • 15: Connect hist failed • 16: Unauthorized • 17: RTSP error • 18: No video	

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Example:


```
{
   "data": {
      "emap": [
         {
            "filename": "20180622160356.jpg",
            "filesize": 879394,
            "hideItemName": false,
            "id": 1,
            "imageData": "...",
            "imgHeight": 768,
            "imgWidth": 1024,
            "item": [
               {
                  "blPlayback": true,
                  "camIdOnRec": 0,
                  "camVideoType": 3,
                  "deviceType": 128,
                  "direction": 0,
                  "dsId": 0,
                  "iconCenterX": 128,
                  "iconCenterY": 84,
                  "id": 35,
                  "name": "AXIS - A8105-E",
                  "portIdx": -1,
                  "status": 7,
                  "txtPos": 0,
                  "type": 0,
                  "uniqueId": 35,
                  "x": 66,
                  "y": 64
               },
               {
                  "blPlayback": true,
                  "camIdOnRec": 0,
                  "camVideoType": 3,
                  "deviceType": 8,
                  "direction": 0,
                  "dsId": 0,
                  "iconCenterX": 176,
                  "iconCenterY": 170,
                  "id": 36,
                  "name": "AXIS - Generic_AXIS",
                  "portIdx": -1,
                  "status": 7,
                  "txtPos": 0,
                  "type": 0,
                  "uniqueId": 36,
                  "x": 98,
                  "y": 150
               }
```


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```
            ],
            "itemTotal": 2,
            "name": "01",
            "privilege": 3,
            "smallItemSize": false
        },
        {
            "filename": "20180628142420.jpg",
            "filesize": 845941,
            "hideItemName": false,
            "id": 2,
            "imageData": "...",
            "imgHeight": 768,
            "imgWidth": 1024,
            "item": [
                {
                    "direction": 0,
                    "dsId": 0,
                    "iconCenterX": 292,
                    "iconCenterY": 252,
                    "id": 1,
                    "name": "01",
                    "portIdx": -1,
                    "txtPos": 0,
                    "type": 1,
                    "uniqueId": 1,
                    "x": 270,
                    "y": 232
                }
            ],
            "itemTotal": 1,
            "name": "02",
            "privilege": 3,
            "smallItemSize": false
        }
    ],
    "success": true,
    "total": 2
  },
  "success": true
}
```


2.3.22.2 Load method

Get specific E-Map settings.

Request

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Parameter	Value	Description	Availability
emapIds	<string>	The list of <EMAP_ID> to be queried concatenated by “,”.	1 and onward
includeImage	<boolean>	*Optional*. Include complete image or not. If not specified, the default value is false.	1 and onward

Example: Get E-Map information with ID 1 and 2.

```
GET /webapi/entry.cgi?
api=SYNO.SurveillanceStation.Emap&version=1&method=Load&emapIds="1,2"&includeImage=true
```

Response

Key	Value	Description	Availability
total	<integer>	The number of total E-maps.	1 and onward
success	<boolean>	The method result.	1 and onward
emap	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
filename	<string>	Name of image file.	1 and onward
filesize	<integer>	Size of image file.	
imageWidth	<integer>	Image width of the E-Map image.	1 and onward
imageHeight	<integer>	Image height of the E-Map image.	1 and onward
imageData	<string>	Image data in base64 format.	
item	Array of <E-Map Item Object>	The list of items marked on the E-Map.	1 and onward
hideItemName	<boolean>	Does item name hide or not	

<E-Map Item Object> definition:

Key	Value	Description	Availability
id	<Item_ID>	Item ID.	1 and onward
name	<string>	Item name.	1 and onward
type	0 … 6	Type of the E-Map item. • 0: Camera • 1: E-Map • 2: Door • 3: IOModule • 4: Transactions Device • 5: IP Speaker • 6: IP Speaker Group	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
uniqueId	<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>. And so on.	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-	1 and onward

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		Map, it describes E-Map name.	
x	<integer>	X-coordinate of the E-Map item assuming that top-left of the E-Map is the origin.	1 and onward
y	<integer>	Y-coordinate of the E-Map item assuming that top-left of the E-Map is the origin.	1 and onward
iconCenterX	<integer>	X-coordinate of the E-Map item icon certer assuming that top-left of the E-Map is the origin.	1 and onward
iconCenterY	<integer>	Y-coordinate of the E-Map item icon certer assuming that top-left of the E-Map is the origin.	1 and onward
direction	0 … 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
blPlayback	<boolean>	This item can be played or not.	1 and onward
camIdOnRec	0, <CAMERA_ID>	ID of the camera or the paired camera of item on recording server. 0: On local host. <CAMERA_ID>: Cam ID on recording server.	1 and onward
camVideoType	1 … 8	Video type of the camera or the paired camera of item. • 1: MJPEG • 2: MPEG4 • 3: H264 • 4: EMAP • 5: MXPEG • 6: H265 • 7: H264+ • 8: H265+	1 and onward
deviceType	1, 2, 4, 8, 16, 32, 64, 128, 256, 512	Type of Camera or E-Map item. • 1: Camera • 2: Video server • 4: PTZ Camera • 8: Fisheye Camera • 16: IO Module • 32: Door controller • 64: Multi lens Camera • 128: Intercom • 256: Transactions Device • 512: IP Speaker	1 and onward
portIdx	<integer>	Port index of Item. Will be -1, If the item dont have any port.	
status	1 ... 18	Indicating the Item status • 1: Normal • 2: Deleted • 3: Disconnected	

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		• 4: Unavailable • 5: Ready • 6: Inaccessible • 7: Disabled • 8: Unrecognized • 9: Setting • 10: Server disconnected • 11: Migrating • 12: Others • 13: Storage removed • 14: Stopping • 15: Connect hist failed • 16: Unauthorized • 17: RTSP error • 18: No video	

Example:


```
{
  "data": {
    "emap": [
      {
        "filename": "20180622160356.jpg",
        "filesize": 879394,
        "hideItemName": false,
        "id": 1,
        "imageData": "...",
        "imgHeight": 768,
        "imgWidth": 1024,
        "item": [
          {
            "blPlayback": true,
            "camIdOnRec": 0,
            "camVideoType": 3,
            "deviceType": 128,
            "direction": 0,
            "dsId": 0,
            "iconCenterX": 128,
            "iconCenterY": 84,
            "id": 35,
            "name": "AXIS - A8105-E",
            "portIdx": -1,
            "status": 7,
            "txtPos": 0,
            "type": 0,
            "uniqueId": 35,
            "x": 66,
            "y": 64
          },
          {
            "blPlayback": true,
```


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```
            "camIdOnRec": 0,
            "camVideoType": 3,
            "deviceType": 8,
            "direction": 0,
            "dsId": 0,
            "iconCenterX": 176,
            "iconCenterY": 170,
            "id": 36,
            "name": "AXIS - Generic_AXIS",
            "portIdx": -1,
            "status": 7,
            "txtPos": 0,
            "type": 0,
            "uniqueId": 36,
            "x": 98,
            "y": 150
        }
    ],
    "itemTotal": 2,
    "name": "01",
    "privilege": 3,
    "smallItemSize": false
},
{
    "filename": "20180628142420.jpg",
    "filesize": 845941,
    "hideItemName": false,
    "id": 2,
    "imageData": "...",
    "imgHeight": 768,
    "imgWidth": 1024,
    "item": [
        {
            "direction": 0,
            "dsId": 0,
            "iconCenterX": 292,
            "iconCenterY": 252,
            "id": 1,
            "name": "01",
            "portIdx": -1,
            "txtPos": 0,
            "type": 1,
            "uniqueId": 1,
            "x": 270,
            "y": 232
        }
    ],
    "itemTotal": 1,
    "name": "02",
    "privilege": 3,
    "smallItemSize": false
```


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```
        }
      ],
      "success": true,
      "total": 2
    },
    "success": true
}
```


2.3.22.3 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.

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2.3.23 SYNO.SurveillanceStation.Emap.Image

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

Name	Version	Availability
SYNO.SurveillanceStation.Emap.Image	1	Surveillance Station 8.0

Method Name	Section	Availability
Load	2.3.23.1	1 and onward

2.3.23.1 Load method

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

Request

Parameter	Value	Description	Availability
filename	<string>	Image file name. Get from 2.3.22.1 or 2.3.22.2	1 and onward

Example:

```
GET /webapi/entry.cgi?
api=SYNO.SurveillanceStation.Emap.Image&version=1&method=Load&filename="20180628142420"
```

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>
```

2.3.23.2 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.

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2.3.24 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	2.3.24.1	1 and onward
SetCustomizedMessage	2.3.24.2	4 and onward
GetCustomizedMessage	2.3.24.3	4 and onward
SetVariables	2.3.24.4	4 and onward
GetVariables	2.3.24.5	4 and onward
SetAdvSetting	2.3.24.6	4 and onward
GetAdvSetting	2.3.24.5	4 and onward

2.3.24.1 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
}
```


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2.3.24.2 SetCustomizedMessage method

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.

2.3.24.3 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

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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"
    }
}
```

2.3.24.4 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.

2.3.24.5 GetVariables method

Return the sender name of notifications

Request

No parameters.

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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"
}
```

2.3.24.6 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
}
```

2.3.24.7 GetAdvSetting method

Get notification advanced settings.

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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
}
```

2.3.24.8 API Error Code

Code	Description
400	Execution failed.

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2.3.25 SYNO.SurveillanceStation.Notification.SMS

Notification.SMS doc

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

Method Name	Section	Availability
SendTestMessage	2.3.25.1	4 and onward
GetSetting	2.3.25.2	4 and onward
SetSetting	2.3.25.3	4 and onward

2.3.25.1 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

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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.

2.3.25.2 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

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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": ""
}
```

2.3.25.3 SetSetting method

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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"
```

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Response

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

2.3.25.4 API Error Code

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

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2.3.26 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	2.3.26.1	4 and onward
GetSetting	2.3.26.2	4 and onward
SetSetting	2.3.26.3	4 and onward
SendVerificationMail	2.3.26.4	4 and onward
ListMobileDevice	2.3.26.5	4 and onward
UnpairMobileDevice	2.3.26.6	4 and onward

2.3.26.1 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 Syno-mails	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
```

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```
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.

2.3.26.2 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": "",
```

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```
    "msgInterval": 1,
    "unverifiedMails": "",
    "mobileEnable": false
}
```

2.3.26.3 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 Syno-mails	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="SetSetting"
```

Response

Key	Value	Description	Availability
unverifiedMails	<boolean>	List of unverified emails	4 and onward

Example:

```
{
    "unverifiedMails": ""
}
```

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2.3.26.4 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.

2.3.26.5 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:

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```
{
    "list": [
        {
            "deviceName": "ASUS_T00F",
            "targetId": 4296562,
            "appVersion": "2.5-213",
            "firmwareVersion": "Android 4.4.2"
        }
    ]
}
```


2.3.26.6 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.

2.3.26.7 API Error Code

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

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2.3.27 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	2.3.27.1	4 and onward
GetCameraAlarmSchedule	2.3.27.2	4 and onward
GetSystemDependentSchedule	2.3.27.3	4 and onward
SetBatchSchedule	2.3.27.4	4 and onward
GetAccessControlDoorSchedule	2.3.27.5	4 and onward
GetCameraSchedule	2.3.27.6	4 and onward
SetSystemDependentSchedule	2.3.27.7	4 and onward
SetAccessControlSchedule	2.3.27.8	4 and onward
SetCameraSchedule	2.3.27.9	4 and onward

2.3.27.1 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 and onward

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		• 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 • 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:[{
```

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```
"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]
        }
    ]
}
```


2.3.27.2 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]
        }
    ]
```

```
}
```

2.3.27.3 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	4 and onward

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		• 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:[{
“eventGroupType”: 4,
```

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```
"eventType": 37,
"schedule":
[1,1,1,
```

{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},

2.3.27.5 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
,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1]
        }
    ]
}
```


2.3.27.6 GetCameraSchedule method

Get schedule of camera

Request

Parameter	Value	Description	Availability
CameraId	<CAMERA_ID>	Id of the specified camera	4 and onward

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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,
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1
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        }
    ]
}
```

2.3.27.7 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"},
```

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{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},
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{"schedule": "1"}, {"schedule": "1"}]

Response

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

2.3.27.8 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"},
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{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "0"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule":
"1"}]&eventType=38&api="SYNO.SurveillanceStation.Notification.Schedule"&doorId=1&method="SetAccessControlSchedule"

Response

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

2.3.27.9 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	<CAMERA_ID>	Id of specified camera	4 and onward

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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": "1"}, {"schedule": "1"},
{"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"},

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{"schedule": "1"}, {"schedule": "0"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}, {"schedule": "1"}]&eventType=4&cameraId=97&api="SYNO.SurveillanceStation.Notification.Schedule"&method="SetCameraSchedule"

Response

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

2.3.27.10 API Error Code

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

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2.3.28 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	2.3.28.1	1 and onward
SendTestMail	2.3.28.2	1 and onward
SetSetting	2.3.28.3	1 and onward

2.3.28.1 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
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

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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
oauthApply	<boolean>	Use Google OAuth 2.0	1 and onward

Example:

```
{
   "attachSnapshot": true,
   "primaryEmail": "bismarckh@synology.com",
   "enableInterval": false,
   "smtpServerPort": 587,
   "subjectPrefix": "Hi",
   "senderMail": "bismarckh@synology.com",
   "auth": true,
   "msgInterval": 1,
   "mailMethod": 2,
   "ssl": true,
   "authUserName": "syno.bismarckh@hotmail.com",
   "secondaryEmail": "syno.bismarckh@hotmail.com",
   "mailEnable": true,
   "smtpServer": "smtp.live.com",
   "senderName": "",
   "authPassword": "********",
   "oauthApply": false
}
```

2.3.28.2 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

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

2.3.28.3 SetSetting method

Set the setting of email notification.

Because of the authorization flow of Google policy, if you want to use Gmail to be SMTP server, please set it by Surveillance Station WebUI/Client.

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 (Needed when enable auth)*. Password.	1 and onward
authUserName	<string>	*Optional (Needed when enable auth)*. 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
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 (Needed when email notification service is enabled)*. 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. *If you want to use setting specific to SS, please uncheck “Show DSM notifications and sync Email/SMS/Push Service settings with DSM” in Notification App first.	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 (Needed when use setting specific to SS)*.	1 and onward

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		Primary email.	
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 (Needed when use setting specific to SS)*. SMTP server.	1 and onward
smtpServerPort	<integer>	*Optional (Needed when use setting specific to SS)*. 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

Example:

```
GET /webapi/entry.cgi?
subjectPrefix="Hi"&version="1"&attachSnapshot=true&senderMail="bismarckh@synology.com"&auth=true&mailMethod=2&ssl=true&authUserName="syno.bismarckh@hotmail.com"&senderName="1"&authPassword="********"&mailEnable=true&primaryEmail="bismarckh@synology.com"&enableInterval=false&msgInterval=1&api="SYNO.SurveillanceStation.Notification.Email"&secondaryEmail="syno.bismarckh@hotmail.com"&smtpServerPort=587&smtpServer="smtp.live.com"&method="SetSetting"
```

Response

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

2.3.28.4 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.

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2.3.29 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	2.3.29.1	1 and onward
Get	2.3.29.2	1 and onward

2.3.29.1 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.

2.3.29.2 Get method

Get information of filter in advance tab.

Request

No parameter is required.

Example:

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```
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

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		• 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
```

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```
        },
        {
            "filter": 1,
            "eventType": 4,
            "eventGroupType": 2
        },
        ...
    ]
}
```

2.3.29.3 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.

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2.3.30 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	2.3.30.1	1 and onward
Set	2.3.30.2	1 and onward
List	2.3.30.3	1 and onward
Delete	2.3.30.4	1 and onward

2.3.30.1 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"
```

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Response

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

2.3.30.2 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.

2.3.30.3 List method

List SMS service provider

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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
      }
   ]
}
```

2.3.30.4 Delete method

Delete SMS service provider.

Request

Parameter	Value	Description	Availability
providerName	<string>	*Optional*.	1 and onward

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		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.

2.3.30.5 API Error Code

Code	Description
400	Execution failed.
401	Parameter invalid.

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2.3.31 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	2.3.31.2	1 and onward
CheckUpdateInfo	2.3.31.3	1 and onward
GetInfo	2.3.31.4	1 and onward
List	2.3.31.5	1 and onward
Update	2.3.31.6	1 and onward
CheckEnableDone	2.3.31.7	1 and onward
Disable	2.3.31.8	1 and onward
SetAutoUpdate	2.3.31.9	1 and onward

2.3.31.1 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
}
```

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2.3.31.2 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.

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2.3.31.3 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
}
```

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2.3.31.4 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

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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
}
```

2.3.31.5 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

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<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+"
      },
```


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```
      "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
  }
```


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2.3.31.6 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.

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2.3.31.7 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
}
```

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2.3.31.8 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.

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2.3.31.9 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.

2.3.31.10 API Error Code

Code	Description
400	Execution failed.

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2.3.32 SYNO.SurveillanceStation.Alert

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.Alert	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	2.3.32.3	1 and onward
Clear	2.3.32.4	1 and onward
Enum	2.3.32.5	1 and onward
RecServerEnum	2.3.32.6	1 and onward
Unlock	2.3.32.7	1 and onward
Trigger	2.3.32.8	1 and onward
EventFlushHeader	2.3.32.9	1 and onward
Lock	2.3.32.10	1 and onward
RecServerEventCount	2.3.32.11	1 and onward

2.3.32.1 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.Alert"&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.

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2.3.32.2 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.Alert"&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
}
```

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2.3.32.3 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.Alert"&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.

2.3.32.4 Clear method

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.Alert"&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.

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2.3.32.5 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.Alert"&typeList="1,2,7"&lock=0&version="1"&method
="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

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		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

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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
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NQy/DDU4kLPf2AUd8t/8AE16xf6qkeVixI/t0H+NYc80ty+6VifbsKpYSAfW6p5nL4FvUbC3dq/uN3+FMHge+P/L
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+APxrsdP06xsNhk/wBNuiAwRfuA9wf84qZTUQ5WzKs9NuZoXlSI+Wg3FjwMU+BAfrXTTRXF1Gkl3MsFqMmN
```

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+XTIg5x/rJs/og5/MiuYvfGOoam7C6uHdc/cY4UD2UcfzNEpxehUaE3qfa+g3dleW7CzmSdUwCycrn69DXmfxl8Z
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      "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
}

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2.3.32.6 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.Alert"&typeList="1,2,7"&lock=0&version="1"&dsId=6&me
thod="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",
```


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```
    "fisheye_origin_view": true,
    "video_type": 3,
    "volume": 0,
    "reason": 1,
    "startTime": 1421985287,
    "eventSize": 6.570010185241699,
    "dsId": 6,
    "snapshot_medium":
"/9j/4AAQSkZJRgABAQAAAQABAAD/2wBDAAYEBQYFBAYGBQYHBwYIChAKCgkJChQODwwQFxQYGBcUFhYa
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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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ZHSmeVRYLme0ftUbR1pNFVrTtGu9Rl2W0JYd2PAH41LaS1LWpz7JxxUDpn613l3o2m6XbMsrm9viOEQ/Kv49
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+XTIg5x/rJs/og5/MiuYvfGOoam7C6uHdc/cY4UD2UcfzNEpxehUaE3qfa+g3dleW7CzmSdUwCycrn69DXmfxl8Z
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ktC0jnpVoqWZaKCrkulTuDsDlB6g/zrt9OukeMLYQ75T992HAP94D/HNef2fWux0l3jtJWjZkLYBKnGR6VjUirXKi
3exJ4tuE0rS57vUZbi4uSwBS2ILoT0b0A7dyM15rqsGr+IoC88UOl6XkbyzZYtjhi5yzfhkfSvYvDkEU7Ik8UciusgYO
oIbjvnrXiPji4mku7VZJpHVkKsGYnIB4B9hXDiG1JJHVQtJM87vYWtrxotwfaxXcOjDPUVNZHdPhu7DNQTktcMW
JJyeT9aS1J84nvz/Krizqa0OnjvJZVkaI4WMiJPULSa5fi5gG4MZEweWyT6/wBKqacTscZOPlqoeZnz6n+Vdb+G5zx
XvDGZzJvySmOte9+ENR/tPwvYXBOZBGI3/wB5eD/KvBl/1f8AwD+or1n4REnwzcgkkC5bHt8q06T94yxKvFM6+
aktY45Jgsqyv6JH1Y+maWWokZlYlSQcdQa2lscSNSfhfs74jU9LW1GWY/7Tf/rqhdnbG0XyxA9Le3+Zj/vN/n6Vfl/
deHg8fyO0mGZeCR6GqF2BHo0RQbS7EMRxu+vrWBre5zM64J4op83eitiT/9k=",
    "imageEnhancement": {
      "saturation": 0,
```


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```
            "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
}
```

2.3.32.7 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.Alert"&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": [
```

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```
      {
         "archived": false,
         "dsId": 6,
         "id": 13
      },
      {
         "archived": false,
         "dsId": 6,
         "id": 25
      }
   ]
},
"success": true
}
```


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2.3.32.8 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.Alert"&version="1"&method="Trigger"
```

Response

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

2.3.32.9 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.Alert"&version="1"&method="EventFlushHeader"
```

Response

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

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2.3.32.10 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.Alert"&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
}
```

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2.3.32.11 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.Alert"&camIdList="10,13"&dsId=6&version="1"&method="RecServerEventCount"
```

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
}
```

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2.3.32.12 API Error Code

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

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2.3.33 SYNO.SurveillanceStation.Alert.Setting

This API provides method to get analytics settings

API Name	Version	Availability
SYNO.SurveillanceStation.Alert.Setting	1	Surveillance Station 6.0-2337

Method Name	Section	Availability
Save	2.3.3.1	1 and onward

2.3.33.1 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.Alert.Setting"®ion=
"111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
```

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```
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
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1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111"&d
wellTime=5&beep=false&objSize=25&sens=2&showLine=false&showVirtualFence=false&type=1&method=
"Save"
```

Response

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

Example:

```
{
"data": {
   "success": boolean
},
"success": true
}
```

2.3.33.2 API Error Code

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

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2.3.34 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	2.3.4.3	1 and onward
CountByCategory	2.3.34.3	1 and onward
ChkContainLocked	2.3.4.4	1 and onward
UnlockFiltered	2.3.4.5	1 and onward
List	2.3.34.6	1 and onward
Unlock	2.3.34.7	1 and onward
TakeSnapshot	2.3.34.8	1 and onward
GetSetting	2.3.34.9	1 and onward
DeleteFiltered	2.3.34.10	1 and onward
LoadSnapshot	2.3.34.11	1 and onward
Lock	2.3.34.12	1 and onward
Download	2.3.34.13	1 and onward
LockFiltered	2.3.34.14	1 and onward
SaveSetting	2.3.34.15	1 and onward
Save	2.3.34.16	1 and onward
ChkSnapshotValid	2.3.34.17	1 and onward
GetCapabilityByCamIdDelete	2.3.34.18	1 and onward

2.3.34.1 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.

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2.3.34.2 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/2wBDAQMDAwQDBAgEBAgQCwkLEBAQEBAQEBAQEBAQEBAQEBAQEBA
QEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBD/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
WsvhR20rU7ZlNlxNp6WCOIkjOwJ/f/wDi68z8J2k2qzXGjuY3jttO8MaPL/vt/pM36S19EJ90VrXUaXwkzPCvEOm
3VnfalqXl+X5Mutamn/bGyjsof/RtZlkjafrFnBIn7mw1WztHT+4mn6NI7/8AkSvc9S0Kw1SKSOeIDzo2hZv9hm+c
f8CrgPFPhqTTGv8AV7SON3S01a7Tf9x57jy0T/xypg4S0QHm3/CJ3Nh4V0zXLuWN31DRm1b5IvufuYESP/vuX/y
LXK+J9Ne2sdQsfM+5LfeSn/XN44a+p7nwzZTadaaVKEkihjgg+fukbo+P+BeVXAeIfAz3M9ojx/667td7/wDXTUJL
mb/xyvExeX+2nz0yDM+EGtanP4mXQ7uSR0SXUrh3f+Py/Ihrqvif4YEN3p/xI0fT5LnWPDb+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+nkvX4izJ9su5/3n39vz
/8Arx8Zye1LHWb741qZ6zNKm+7Wm9cQENFFFADXqulWKqQ/wAX+81AD0ov/wDjxuf+uEn/AKBQlS3H/HvL/
wBcmoQI/Vn9j/U5fiN+zH4T/wCEgMge0hl0wun7rekLvGP/AByuB/4KUon/AArLw5J/Gmr7P+
+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/Q465rVdStbDyPtcmzevyf7ddxjAneztbyPy7u3jnT/brQR/Jj/1cj1Ss5kuYIp0+4
676ZretroNj9uk+55ip/31WBZrJeXH/LDS7iT/AL4/+LqpreqG6zYaVeXUGlyI6QNsfzU+SucvPiL9j8qS1t7e63/P8kr1
btviLLNPBBfW9unnMqbPN/vPVckzY7DTbl5tD0yef78yxu7/3/kro7T/UrXM6xNs+wwfx10FnN/oq1kUcf4//AOQ
```

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:

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```
{
"data": {
   "snapshotId": 156744,
   "recordData": {
      "modifiedCnt": 1,
      "update_time": 1425360178,
      "imageData":
"/9j/4AAQSkZJRgABAQAAAQABAAD/2wBDAAMCAgICAgMCAgIDAwMDBAYEBAQEBAgGBgUGCQgKCgkICQk
KDA8MCgsOCwkJDRENDg8QEBEQCgwSExIQEw8QEBD/2wBDAQMDAwQDBAgEBAgQCwkLEBAQEBAQEBAQ
EBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBD/wAARCAKAAeADASIAAhEBAx
EB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDA
AQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2JyggkKFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFV
WV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJ
ytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL
/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNO
El8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZa
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      "height": 640,
      "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
}
}

2.3.34.3 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="CountByCategory"&timezoneOffset=480
```

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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
}
}
```

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2.3.34.4 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
}
```

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2.3.34.5 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.

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2.3.34.6 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 the 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
camId	<integer >	Optional. The sanpshots of the specified camera id selected from database.	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=3&camId="16"&version="1"&method="List"
```

Response

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Name	Value	Description	Availability
auInfo	<string>	Information for auto update	4
data	Array of <Details Object>	Details of snapshot.	4
timestamp	<boolean>	Time stamp	4 and onward
total	<integer>	Total number of snapshots.	4 and onward

<Details Object**>** definition

Key	Value	Description	Availability
byteSize	<integer>	The snapshot size.	1 and onward
camId	<integer>	The camera Id of snapshot.	1 and onward
camName	<string>	The camera name of snapshot.	1 and onward
createdTm	<integer>	The timestamp of snapshot created.	1 and onward
DisplayTm	<integer>	The timestamp of snapshot displayed.	1 and onward
fileName	<string>	The file name of snapshot.	1 and onward
height	<integer>	The image height of snapshot.	1 and onward
id	<integer>	The Id of snapshot.	1 and onward
total	<integer>	Total number of snapshots.	1 and onward
width	<integer>	Width of snapshot.	1 and onward
recordId	<string>	Identification in cms "{server_id}_{id_on_server}".	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
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" : {
    "data" : [
      {
        "byteSize" : 81917,
        "camId" : 16,
        "camName" : "IP8331-001",
        "createdTm" : 1545965208,
        "displayTm" : 1545965208,
        "fileName" : "IP8331-001-20181228-1046483242.jpg",
        "height" : 480,
        "id" : 12,
        "imageData" :
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```


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        "update_time" : 1545965210,
        "videoTm" : 1545965208,
        "width" : 640
      },
      {
        "byteSize" : 88795,
        "camId" : 16,
        "camName" : "IP8331-001",
        "createdTm" : 1545964940,
        "displayTm" : 1545964940,
        "fileName" : "IP8331-001-20181228-1042206839.jpg",
        "height" : 480,
        "id" : 11,
        "imageData" :
```

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svieZVYhSikgHrRUgf//Z",
"lastModifiedTm" : 1545964940,
"locked" : false,
"markAsDel" : false,
"modifiedCnt" : 0,
"recordId" : "0_11",
"update_time" : 1545964958,
"videoTm" : 1545964940,
"width" : 640
},
{
"byteSize" : 87135,
"camId" : 16,
"camName" : "IP8331-001",
"createdTm" : 1545964940,
"displayTm" : 1545964940,
"fileName" : "IP8331-001-20181228-1042205291.jpg",
"height" : 480,

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```
        "id" : 10,
        "imageData" :
"/9j/4AAQSkZJRgABAQAAAQABAAD/2wBDAAYEBQYFBAYGBQYHBwYIChAKCgkJChQODwwQFxQYGBcUFhYa
HSUfGhsjHBYWICwgIyYnKSopGR8tMC0oMCUoKSj/2wBDAQcHBwoIChMKChMoGhYaKCgoKCgoKCgoKCgoKC
goKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCj/wAARCABaAHgDASIAAhEBAxEB/8QAHwAAA
QUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEG
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UkA9aKgD/2Q==",
        "lastModifiedTm" : 1545964940,
        "locked" : false,
        "markAsDel" : false,
        "modifiedCnt" : 0,
        "recordId" : "0_10",
        "update_time" : 1545964956,
        "videoTm" : 1545964940,
        "width" : 640
      }
    ],
    "timestamp" : "1545965385",
    "total" : 12
```


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```
  },
  "httpd_restart" : false,
  "success" : true
}
```

2.3.34.7 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.

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2.3.34.8 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="TakeSnapshot"
```

Response

Name	Value	Description	Availability
id	<integer>	Id of snapshot.	1 and onward

Example:

```
{
"data": {
   "id": 1
},
"success": true
}
```

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2.3.34.9 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
timestampPositio n	<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,
```

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```
        "dispSnapshot": true,
        "addTimestamp": true,
        "limitTotalSize": true
    }
},
"success": true
}
```

2.3.34.10 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.

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2.3.34.11 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.

2.3.34.12 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.

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2.3.34.13 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.

2.3.34.14 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.

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2.3.34.15 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
timestampPositio n	<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
   }
```

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```
},
"success": true
}
```


2.3.34.16 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
CAgICAgMCAgIDAwMDBAYEBAQEBAgGBgUGCQgKCgkICQkKDA8MCgsOCwkJDRENDg8QEBEQCgwSExIQEw8
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WCOIkjOwJ/f/wDi68z8J2k2qzXGjuY3jttO8MaPL/vt/pM36S19EJ90VrXUaXwkzPCvEOm3VnfalqXl+X5Mutamn
/bGyjsof/RtZlkjafrFnBIn7mw1WztHT+4mn6NI7/8AkSvc9S0Kw1SKSOeIDzo2hZv9hm+cf8CrgPFPhqTTGv8AV7
SON3S01a7Tf9x57jy0T/xypg4S0QHm3/CJ3Nh4V0zXLuWN31DRm1b5IvufuYESP/vuX/yLXK+J9Ne2sdQsfM+5L
feSn/XN44a+p7nwzZTadaaVKEkihjgg+fukbo+P+BeVXAeIfAz3M9ojx/667td7/wDXTUJLmb/xyvExeX+2nz0yDM
+EGtanP4mXQ7uSR0SXUrh3f+Py/Ihrqvif4YEN3p/xI0fT5LnWPDb+b5UP37m2b5Jo/wDvisT4N6dMmtNqF1G8
LrpfnOh/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+
+kpf8Agmv4qn174K654d8zY+ia1IiO/wD02TfR/wAFE3t7D4L+HdOvtR8+9fW1ETv9+bbDJvr1sTy/VzWHxH5wa
x/yDp/92tuz+4tYWq/8eE/
```


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+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
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la/8AXBa5d/8AVv8A7rV1HxC/5CsH/XBa5eb/AFEv+61cEv4h1Q+A8Xu5tlxLJ/tV9eWuqtc/B/4ead/c0tpX/wC+9
iV8fam+6ST/AHq9z8K/Ejw2fCWjadd6xHBcWFktpsff/C8n+xXXmNCc8PFwLw04HrvgPQYtb1ny57fz0RfufwfNU
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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
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/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"&api="SYNO.SurveillanceStation.SnapShot"&createdTm=1423499773&byteSize=51039&me
thod="Save"&height=640

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
}
```

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2.3.34.17 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
}
```

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2.3.34.18 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.

2.3.34.19 API Error Code

Code	Description
105	No permission.
400	Execution failed.
418	Object is not exist.

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2.3.35 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	2.3.35.3	1 and onward
Lock	2.3.35.4	1 and onward
Enum	2.3.35.5	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

2.3.35.1 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
}
```

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2.3.35.2 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
}
```

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2.3.35.3 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:

```
{
```

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```
"data": {
   "success": true
},
"success": true
}
```

2.3.35.4 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
}
```

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2.3.35.5 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

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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
}
```


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2.3.35.6 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
}
```

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2.3.35.7 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
}
```

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2.3.35.8 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
}
```

2.3.35.9 API Error Code

Code	Description
100	Unknown error.
400	Execution failed.
419	Visualstation name repetition.

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2.3.36 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	2.3.36.2	1 and onward
Delete	2.3.36.3	1 and onward

2.3.36.1 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

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		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": [
```

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```
        {
            "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
}
```


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2.3.36.2 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

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		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&isDefault=1&camGrpId=-1

Response

Key	Value	Description	Availability
id	<Integer>	The saved layout ID.	1 and onward

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success	<boolean>	Successful or not.	1 and onward

Example:

```
{
"data": {
   "id": 12,
   "success": true
},
"success": true
}
```

2.3.36.3 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
}
```

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2.3.36.4 API Error Code

Code	Description
100	Unknown error.
418	The VisualStation ID does not exist.

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2.3.37 SYNO.SurveillanceStation.VisualStation.Search

This API provides method to query visual station 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	2.3.37.2	1 and onward
Stop	2.3.37.3	1 and onward
InfoGet	2.3.37.4	1 and onward

2.3.37.1 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
}
```

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2.3.37.2 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",
```


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```
        "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
}
```

2.3.37.3 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
}
```

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2.3.37.4 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",
```


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```
            "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,
```


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```
            "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,
```


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```
            "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
}
```


2.3.37.5 API Error Code

Code	Description
100	Unknown error.
417	Test Connection Error.

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2.3.38 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	2.3.38.1	4 and onward
CountByCategoryCardHolder	2.3.38.2	4 and onward
EnumLogConfig	2.3.38.3	4 and onward
GetCardholderPhoto	2.3.38.4	4 and onward
CountByCategoryLog	2.3.38.5	4 and onward
EnumCardHolder	2.3.38.6	4 and onward
RetrieveLastCard	2.3.38.7	4 and onward
EnableCtrler	2.3.38.8	4 and onward
AckAlarm	2.3.38.9	4 and onward
SaveLogConfig	2.3.38.10	4 and onward
Save	2.3.38.11	4 and onward
DownloadLog	2.3.38.12	4 and onward
GetDoorNames	2.3.38.13	4 and onward
TestConnect	2.3.38.14	4 and onward
Enum	2.3.38.15	4 and onward
SaveCardHolder	2.3.38.16	4 and onward
ListDoor	2.3.38.17	4 and onward
ClearLog	2.3.38.18	4 and onward
DoorControl	2.3.38.19	4 and onward
SavePrivilege	2.3.38.20	4 and onward
ListPrivilege	2.3.38.21	4 and onward
ListLog	2.3.38.22	4 and onward
Delete	2.3.38.23	4 and onward
Retrieve	2.3.38.24	4 and onward
BlockCardHolder	2.3.38.25	4 and onward
CountByCategory	2.3.38.26	4 and onward

2.3.38.1 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"
```

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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
    }
}
```

2.3.38.2 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="CountByCategoryCardHolder"
```

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

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<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
        }
    }
}
```

2.3.38.3 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

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<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": "1111111111111111111111111111111111111111",
                "id": 97,
                "log_alarm": "1111111111111111111111111111111111111111"
            }
        ]
    }
}
```

2.3.38.4 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
```

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```
hod="GetCardholderPhoto"
```

Response

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

2.3.38.5 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

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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="15,24"&filterTimeFrom=1424016000&filterType=1&filterKeyword="Jack"&start=0&api="SYNO.SurveillanceStation.AxisAcsCtrler"&limit=0&eventTypes="1,2,3,4"&filterSource=91&method="CountByCategoryLog"&timezoneOffset=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

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-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
        }
    }
}
```


2.3.38.6 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

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		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&filterStatus=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

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		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
            }
        ]
    }
}
```


2.3.38.7 RetrieveLastCard method

Retrieve last access credential data from controller.

Request

Parameter	Value	Description	Availability
ctrlerId	<integer>	Controller ID.	4 and onward

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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="RetrieveLastCard"
```

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"
    }
}
```

2.3.38.8 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"&blEnable=false
```

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Response

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

2.3.38.9 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

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		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.

2.3.38.10 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":
"11111111111111111111111111111111111111", "id": 97, "log_alarm":
"00111111111111111111111111111111111111"}&version="1"&method="SaveLogConfig"
```

Response

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

2.3.38.11 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

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		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.

2.3.38.12 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

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		• 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.

2.3.38.13 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

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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.Surveillance
Station.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"
      ]
   }
}
```

2.3.38.14 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:

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```
http://192.168.1.1:5000/webapi/entry.cgi?
userName="root"&version="1"&ip="10.13.12.173"&ctrlerId=97&method="TestConnect"&api="SYNO.Surveillance
Station.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.

2.3.38.15 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

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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

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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.	4 and onward

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		0: Reader 1: Rex (Request to Exit)	

<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:

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```
{
    "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
,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
,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
,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
,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,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
          }
        ]
    }
}
```


2.3.38.16 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

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		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_until\":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.AxisAcsCtrler"&version="1"&method="SaveCardHolder"
```

Response

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

2.3.38.17 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

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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
}
```

2.3.38.18 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

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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.

2.3.38.19 ListPrivilege method

List all SurveillanceStation user privilege for each door.

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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
            }
        ]
    }
}
```


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2.3.38.20 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.

2.3.38.21 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

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

2.3.38.22 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

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		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="15,24"&filterTimeFrom=1424016000&filterType=1&filterKeyword="Jack"&start=0&api="SYNO.SurveillanceStation.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

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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

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		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

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		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

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		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
            }
        ]
    }
}
```


2.3.38.23 Delete method

Delete select controllers.

Request

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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.

2.3.38.24 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.

2.3.38.25 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="BlockCardHolder"
```

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Response

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

2.3.38.26 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
    }
}
```

2.3.38.27 API Error Code

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

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2.3.39 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	2.3.40.1	1 and onward
InfoGet	2.3.39.2	1 and onward

2.3.39.1 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
pid	<integer>	Controller search process ID, used as a parameter to get search result by InfoGet action.	1 and onward

Example:

```
{
    "pid": 10017
}
```

2.3.39.2 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

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Example:

```
GET /webapi/entry.cgi?
method="InfoGet"&api="SYNO.SurveillanceStation.AxisAcsCtrler.Search"&pid=10017&version="1"&offset=
0
```

Response

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:

```
{
        "ctrlers": [{
                "ip": "10.13.12.173",
                "mac": "AC:CC:8E:09:C8:84",
                "vendor": "AXIS",
                "model": "AXIS A1001",
                "port": 80
        }],
        "alive": true
}
```

2.3.39.3 API Error Code

Code	Description
400	Execution failed.

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2.3.40 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	2.3.40.1	1 and onward
Save	2.3.40.2	1 and onward
PollState	2.3.40.3	1 and onward

2.3.40.1 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:

```
{
```

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```
    "list": [
        {
            "trigger_state": true,
            "current_state": 1,
            "keep_setting": true,
            "idx": 0,
            "normal_state": 0
        }
    ]
}
```

2.3.40.2 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.DigitalOutput"&method="Save"&normal_state=1
```

Response

Key	Value	Description	Availability
camId	<integer>	The selected camera id .	1 and onward

Example:

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

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2.3.40.3 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
}
```

2.3.40.4 API Error Code

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

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2.3.41 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	2.3.41.1	1 and onward

2.3.41.1 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.

2.3.41.2 API Error Code

Code	Description
401	Parameter invalid.

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2.3.42 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	2.3.42.1	1 and onward
EnumPort	2.3.42.2	1 and onward
EnumVendorModel	2.3.42.3	1 and onward
Save	2.3.42.4	1 and onward
Enable	2.3.42.5	1 and onward
Disable	2.3.42.6	1 and onward
Delete	2.3.42.7	1 and onward
TestConn	2.3.42.8	1 and onward
GetCap	2.3.42.9	1 and onward
PortSetting	2.3.42.10	1 and onward
PollingDI	2.3.42.11	1 and onward
PollingDO	2.3.42.12	1 and onward
GetDevNumOfDs	2.3.42.13	1 and onward
CountByCategory	2.3.42.14	1 and onward

2.3.42.1 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:

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```
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

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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",
```


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```
                "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
```


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```
                    },
                    {
                        "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
                    },
                    {
```


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```
                "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,
```


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```
                    "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
}
```


2.3.42.2 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

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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,
```

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```
            "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,
```


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```
            "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",
```


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```
            "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
```


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```
        },
        {
                "current_state": 0,
                "idx": 14,
                "io_type": 1,
                "keep_setting": false,
                "name": "IO Port 15",
                "normal_state": 0,
                "trigger_state": false
        }],
        "success": true
}
```


2.3.42.3 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",
```


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```
                        "vendor": "Advantech"
                },
                {
                        "model_no": "ADAM-6052",
                        "vendor": "Advantech"
                },
                {
                        "model_no": "ADAM-6250",
                        "vendor": "Advantech"
                },
                {
                        "model_no": "ADAM-6266",
                        "vendor": "Advantech"
                }]
        },
        "success": true
}
```

2.3.42.4 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

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<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:

```
{
```

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```
        "data": {
                "editTime": 1458555950,
                "id": 10,
                "success": true
        },
        "success": true
}
```

2.3.42.5 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.

2.3.42.6 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.

2.3.42.7 Delete method

Remove IO modules.

Request

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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.

2.3.42.8 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.

2.3.42.9 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

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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

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< 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
}
```


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2.3.42.10 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.

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2.3.42.11 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&version=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
         }
      ]
   },
```

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

2.3.42.12 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
}
```

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2.3.42.13 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
}
```

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2.3.42.14 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
```

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```
        },
        "total":1
    },
    "success":true
}
```

2.3.42.15 API Error Code

Code	Description
100	Unknown error.
400	Execution failed.
401	Parameter invalid.
402	IO module disabled.
403	Insufficient license.

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2.3.43 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	2.3.43.1	1 and onward
InfoGet	2.3.43.2	1 and onward

2.3.43.1 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

2.3.43.2 InfoGet method

Get the searching info.

Request

Key	Value	Description	Availability
pid	<integer>	*Required*. The pid of the searching process.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.IOModule.Search"&version="1"&method="InfoGet"&pid=3604
```

Response

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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.	1 and onward
mac	<string>	I/O module MAC address.	1 and onward
model	<string>	Model of the I/O module.	1 and onward
port	<integer>	Port of the I/O module.	1 and onward
vendor	<string>	Vendor of the I/O module.	1 and onward

Example:

```
{
        "moduleList":[{
                "ip":"10.13.23.18",
                "mac":"AC:CC:8E:4B:DA:47",
                "model":"P8221",
                "port":80,
                "vendor":"AXIS"
        }],
        "searchStatus":true
}
```

2.3.43.3 API Error Code

Code	Description
400	Operation Failed.
401	Parameter invalid.

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2.3.44 SYNO.SurveillanceStation.Camera.Status

Get current camera status infomation.

Name	Version	Availability
SYNO.SurveillanceStation.Camera.Status	1	Surveillance Station 7.2.2

Method Name	Section	Availability
OneTime	2.3.44.1	1 and onward

2.3.44.1 OneTime method

Get current camera status.

Request

Key	Value	Description	Availability
id_list	<string>	*Required*. List of camera IDs.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Camera.Status"&version=1&method="OneTime"&id_list="1,2"
```

Response

Key	Value	Description	Availability
CamStatus	<string>	Array of camera infomation. [ID, Status, VideoType, Has audio (bool), Volume of sound, Mute (bool), Alert trigger level]	1 and onward

Definition:

Key	Value	Description	Availability
Status	<integer>	0: Unknown 1: Starting 2: Running 3: Stopping 4: Stopped 5: Retrying	1 and onward
VideoType	<integer>	1: Mjpeg 2: Mpeg4	1 and onward

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		3: H264 4: Emap 5: Mxpeg 6: H265	

Example:

```
{
        "CamStatus":"[1 2 3 1 50 0 0],[2 2 3 1 50 0 0]"
}
```

2.3.44.2 API Error Code

Code	Description
400	Operation Failed.
401	Parameter invalid.

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2.3.45 SYNO.SurveillanceStation.PTZ.Preset

This API provides a set of methods to execute preset action for PTZ cameras.

Name	Version	Availability
SYNO.SurveillanceStation.PTZ.Preset	1	Surveillance Station 7.2.2

Method Name	Section	Availability
Enum	2.3.45.1	1 and onward
GetInfo	2.3.45.2	1 and onward
SetPreset	2.3.45.3	1 and onward
DelPreset	2.3.45.4	1 and onward
Execute	2.3.45.5	1 and onward
SetHome	2.3.45.6	1 and onward

2.3.45.1 Enum method

Enum preset list from camera.

Request

Key	Value	Description	Availability
cameraId	<CAMERA_ID>	*Required*. Unique camera ID.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.PTZ.Preset"&version="1"&method="Enum"&cameraId=4
```

Response

Key	Value	Description	Availability
camId	<CAMERA_ID>	Unique camera ID.	1 and onward
preset	<Preset> Array	List of preset information.	1 and onward

<Preset> Definition:

Key	Value	Description	Availability
name	<string>	Name of the preset.	1 and onward
position	<integer>	ID of preset in camera.	1 and onward
speed	<integer>	Speed of preset.	1 and onward
Type	<integer>	0: Normal 1: Home	1 and onward

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Example:

```
{
        "camId":4,
        "preset":[{
                "name":"home",
                "position":0,
                "speed":3,
                "type":1
        }]
}
```

2.3.45.2 GetInfo method

Get preset capability from camera.

Request

Key	Value	Description	Availability
cameraId	<CAMERA_ID>	*Required.* Unique camera ID.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.PTZ.Preset"&version="1"&method="GetInfo"&cameraId=4
```

Response

Key	Value	Description	Availability
id	<CAMERA_ID>	Unique camera ID.	1 and onward
presetNum	<integer>	Max preset number.	1 and onward
pt_speed	<integer>	Speed of pan and tilt.	1 and onward
ptz	<integer>	Bitwise camera step ptz capability. 0x001: Pan 0x002: Tilt 0x004: Zoom 0x008: Home 0x010: Abs position 0x020: Focus 0x040: Auto focus 0x080: Iris 0x100: Ptz speed 0x200: Zoom speed	1 and onward
ptzAutoPanType	<integer>	Autopan implement type. 0: No autopan 1: By Surveillance Station simulation 2: Keep autopan until stop command.	1 and onward

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		3: Autopan one cycle for each command.	
ptzContinuous	<integer>	Bitwise camera continues ptz capability. 0x001: Pan 0x002: Tilt 0x004: Zoom 0x008: Home 0x010: Abs position 0x020: Focus 0x040: Auto focus 0x080: Iris 0x100: Ptz speed 0x200: Zoom speed	1 and onward
ptzDirection	<integer>	Direction of camera ptz. 1: Pan right 5: Up right 9: Tilt up 13: Up left 17: Pan left 21: Down left 25: Tilt down 29: Down right 33: Home 34: Zoom in 35: Zoom out 36: Iris in 37: Iris out 38: Focus in 39: Focus out 40: Auto focus 41: Abs position 42: Auto pan 43: Object tracking	1 and onward
ptzHasObjTracking	<boolean>	If camera has object tracking capability.	1 and onward
ptz_speed_keep_origin	<boolean>	If camera ptz speed modifiable.	1 and onward
zoom_speed	<integer>	Speed of zoom.	1 and onward

Example:

```
{
        "id":4,
        "presetNum":100,
        "pt_speed":3,
        "ptz":511,
        "ptzAutoPanType":0,
        "ptzContinuous":39,
        "ptzDirection":32,
        "ptzHasObjTracking":false,
        "ptz_speed_keep_origin":true,
        "zoom_speed":3
}
```

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2.3.45.3 SetPreset method

Record current camera position as preset point and set back to camera.

Request

Key	Value	Description	Availability
cameraId	<CAMERA_ID>	Unique camera ID.	1 and onward
position	<integer>	*Required*. ID of preset in camera.	1 and onward
speed	<integer>	*Optional.* Speed of ptz, default to 3.	1 and onward
name	<string>	*Required*. Name of the preset.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.PTZ.Preset"&version="1"&method="SetPreset"&cameraId=4&position=1&name="Preset1"
```

Response

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

2.3.45.4 DelPreset method

Delete list of preset from camera.

Request

Key	Value	Description	Availability
cameraId	<CAMERA_ID>	*Required.* Unique camera ID.	1 and onward
position	<string>	*Required.* List of preset position.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.PTZ.Preset"&version="1"&method="DelPreset"&cameraId=4&position="1,2,5"
```

Response

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

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2.3.45.5 Execute method

Go to specific preset by given speed.

Request

Key	Value	Description	Availability
cameraId	<CAMERA_ID>	*Required.* Unique camera ID.	1 and onward
position	<integer>	*Required.* ID of preset in camera. Should be -1 when type is 1(Home).	1 and onward
speed	<integer>	*Optional.* Speed to go to preset.	1 and onward
type	<integer>	Is this preset home or not. 0: Normal 1: Home	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.PTZ.Preset"&version="1"&method="Execute"&cameraId=4&position=1&speed=3
```

Response

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

2.3.45.6 SetHome method

Set current camera position as Home preset.

Request

Key	Value	Description	Availability
cameraId	<CAMERA_ID>	*Required.* Unique camera ID.	1 and onward
bindPosition	<integer>	*Optional.* Set Home position to specific ID of preset in camera.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.PTZ.Preset"&version="1"&method="SetHome"&cameraId=4
```

Response

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

2.3.45.7 API Error Code

Code	Description
400	Operation Failed.
401	Parameter invalid.

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2.3.46 SYNO.SurveillanceStation.PTZ.Patrol

This API provides a set of methods to execute preset action for PTZ cameras.

Name	Version	Availability
SYNO.SurveillanceStation.PTZ.Patrol	1	Surveillance Station 7.2.2

Method Name	Section	Availability
Enum	2.3.46.1	1 and onward
EnumPartial	2.3.46.2	1 and onward
Load	2.3.46.3	1 and onward
Save	2.3.46.4	1 and onward
Delete	2.3.46.5	1 and onward
Excute	2.3.46.6	1 and onward
Stop	2.3.46.7	1 and onward

2.3.46.1 Enum method

Enum patrol list and contain its preset members in Surveillance Station database.

Request

Key	Value	Description	Availability
camId	<CAMERA_ID>	*Required.* Unique camera ID.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.PTZ.Patrol"&version="1"&method="Enum"&camId=4
```

Response

Key	Value	Description	Availability
patrol	<Patrol> Array	List of patrol information.	1 and onward

<Patrol> Definition:

Key	Value	Description	Availability
id	<integer>	ID of patrol in Surveillance Station database.	1 and onward
name	<string>	Patrol name.	1 and onward
speed	<integer>	Speed of patrol to run preset.	1 and onward
stayTime	<integer>	Delay time in seconds from one preset to another.	1 and onward
presetList	<Preset> Array	List of preset information.	1 and onward

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<Preset> Definition:

Key	Value	Description	Availability
name	<string>	Name of the preset.	1 and onward
position	<integer>	ID of preset in camera.	1 and onward
Type	<integer>	0: Normal 1: Home	1 and onward

Example:

```
{
        "patrol":[{
                "id":1,
                "name":"p1",
                "presetList":[{
                        "name":"home",
                        "position":0,
                        "type":1
                }, {
                        "name":"syno1",
                        "position":1,
                        "type":0
                }],
                "speed":3,
                "stayTime":5
        }]
}
```

2.3.46.2 EnumPartial method

Enum patrol name list in Surveillance Station database.

Request

Key	Value	Description	Availability
camId	<CAMERA_ID>	*Required.* Unique camera ID.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.PTZ.Patrol"&version="1"&method="EnumPartial"&camId=4
```

Response

Key	Value	Description	Availability
camId	<CAMERA_ID>	Unique camera ID.	1 and onward
patrol	<Patrol> Array	List of patrol information.	1 and onward

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<Patrol> Definition:

Key	Value	Description	Availability
id	<integer>	ID of patrol in Surveillance Station database.	1 and onward
name	<string>	Patrol name.	1 and onward

Example:

```
{
        "camId":4,
        "patrol":[{
                "id":1,
                "name":"p1"
        }]
}
```

2.3.46.3 Load method

Load patrol detail include preset members information.

Request

Key	Value	Description	Availability
id	<integer>	*Required.* ID of patrol.	1 and onward

Example:

```
GET /webapi/entry.cgi?api="SYNO.SurveillanceStation.PTZ.Patrol"&version="1"&method="Load"&id=1
```

Response

Key	Value	Description	Availability
patrol	<Patrol> Array	List of patrol information.	1 and onward

<Patrol> Definition:

Key	Value	Description	Availability
camId	<CAMERA_ID>	Unique camera ID.	1 and onward
id	<integer>	ID of patrol in Surveillance Station database.	1 and onward
name	<string>	Patrol name.	1 and onward
speed	<integer>	Speed of patrol to run preset.	1 and onward
stayTime	<integer>	Delay time in seconds from one preset to another.	1 and onward
presetList	<Preset> Array	List of preset information.	1 and onward

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<Preset> Definition:

Key	Value	Description	Availability
name	<string>	Name of the preset.	1 and onward
position	<integer>	ID of preset in camera.	1 and onward
Type	<integer>	0: Normal 1: Home	1 and onward

Example:

```
{
        "patrol":{
                "camId":4,
                "id":1,
                "name":"p1",
                "presetList":[{
                        "name":"home",
                        "position":0,
                        "type":1
                }, {
                        "name":"syno1",
                        "position":1,
                        "type":0
                }],
                "speed":3,
                "stayTime":5
        }
}
```

2.3.46.4 Save method

Add or modify a patrol.

Request

Key	Value	Description	Availability
camId	<CAMERA_ID>	*Required.* Unique camera ID.	1 and onward
id	<integer>	*Optional.* ID of patrol to be modified, add a new one if no specific ID.	1 and onward
stayTime	<integer>	*Optional.* Delay time in seconds from one preset to another, default to 5.	1 and onward
speed	<integer>	*Optional.* Speed of patrol to run preset, default to 3.	1 and onward
name	<string>	*Required.* Name of the patrol.	1 and onward
presetList	<Preset> Array	*Optional.*	1 and onward

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		List of preset information, delete all preset if empty.	

<Preset> Definition:

Key	Value	Description	Availability
name	<string>	Name of the preset.	1 and onward
position	<integer>	ID of preset in camera.	1 and onward
Type	<integer>	0: Normal 1: Home	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.PTZ.Patrol"&version="1"&method="Save"&camId=4&name="p3"&presetList=[{"name":"home","position":0,"type":1},{"name":"syno7","position":7,"type":0}]
```

Response

Key	Value	Description	Availability
patrol	<Patrol> Array	List of patrol information.	1 and onward

<Patrol> Definition:

Key	Value	Description	Availability
camId	<CAMERA_ID>	Unique camera ID.	1 and onward
id	<integer>	ID of patrol in Surveillance Station database.	1 and onward
name	<string>	Patrol name.	1 and onward
speed	<integer>	Speed of patrol to run preset.	1 and onward
stayTime	<integer>	Delay time in seconds from one preset to another.	1 and onward
presetList	<Preset> Array	List of preset information.	1 and onward

<Preset> Definition:

Key	Value	Description	Availability
name	<string>	Name of the preset.	1 and onward
position	<integer>	ID of preset in camera.	1 and onward
Type	<integer>	0: Normal 1: Home	1 and onward

Example:

```
{
        "patrol":{
                "camId":4,
                "id":1,
                "name":"p1",
                "presetList":[{
                        "name":"home",
                        "position":0,
```

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```
                        "type":1
                }, {
                        "name":"syno1",
                        "position":1,
                        "type":0
                }],
                "speed":3,
                "stayTime":5
        }
}
```

2.3.46.5 Delete method

Delete specific patrol.

Request

Key	Value	Description	Availability
camId	<CAMERA_ID>	*Required.* Unique camera ID.	1 and onward
patrolId	<string>	*Required.* Array of patrol IDs.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.PTZ.Patrol"&version="1"&method="Delete"&camId=4&patrolId="1,2"
```

Response

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

2.3.46.6 Excute method

Start to run patrol, sequentially go to each preset position.

Request

Key	Value	Description	Availability
camId	<CAMERA_ID>	*Required.* Unique camera ID.	1 and onward
id	<integer>	*Required.* ID of patrol in Surveillance Station database.	1 and onward

Example:

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```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.PTZ.Patrol"&version="1"&method="Excute"&camId=4&id=1
```

Response

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

2.3.46.7 Stop method

Stop running patrol.

Request

Key	Value	Description	Availability
camId	<CAMERA_ID>	*Required.* Unique camera ID.	1 and onward

Example:

```
GET /webapi/entry.cgi?api="SYNO.SurveillanceStation.PTZ.Patrol"&version="1"&method="Stop"&camId=4
```

Response

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

2.3.46.8 API Error Code

Code	Description
400	Operation Failed.
401	Parameter invalid.

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2.3.47 SYNO.SurveillanceStation.Camera.Search

Searching cameras and get searching resrult.

Name	Version	Availability
SYNO.SurveillanceStation.Camera.Search	1	Surveillance Station 7.2.2

Method Name	Section	Availability
Start	2.3.47.1	1 and onward
GetInfo	2.3.47.2	1 and onward

2.3.47.1 Start method

Start camera search process.

Request

No parameter is required.

Example:

```
GET /webapi/entry.cgi?api="SYNO.SurveillanceStation.Camera.Search"&version="1"&method="Start"
```

Response

Key	Value	Description	Availability
pid	<integer>	Camera search process ID, used as a parameter to get search result by InfoGet action.	1 and onward

Example:

```
{
    "pid":1024
}
```

2.3.47.2 GetInfo method

Get the searching infomation.

Request

Key	Value	Description	Availability
pid	<integer>	*Required*. The pid of the searching process.	1 and onward
offset	<integer>	*Optional.* Next camera data start index, default to 0.	1 and onward

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Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Camera.Search"&version="1"&method="GetInfo"&pid=1024
```

Response

Key	Value	Description	Availability
camList	<Camera> Array	List of camera infomation.	1 and onward
searchStatus	<boolean>	Is the searching process alive.	1 and onward
camCount	<integer>	Last camera data index, used as next offset.	1 and onward

<Camera> definition:

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

Example:

```
{
        "camCount":53,
        "camList":[{
                "ip":"10.13.23.126",
                "mac":"28:10:7B:06:86:0E",
                "model":"DCS-2132L",
                "port":80,
                "vendor":"D-Link"
        }, {
                "ip":"10.13.23.5",
                "mac":"00:40:8C:C7:5B:0F",
                "model":"M1054",
                "port":80,
                "vendor":"AXIS"
        }],
        "searchStatus":true
}
```

2.3.47.3 API Error Code

Code	Description
400	Operation Failed.
401	Parameter invalid.

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2.3.48 SYNO.SurveillanceStation.HomeMode

Switch home mode or get home mode related setting and information.

Name	Version	Availability
SYNO.SurveillanceStation.HomeMode	1	Surveillance Station 8.1.0

Method Name	Section	Availability
Switch	2.3.48.1	1 and onward
GetInfo	2.3.48.2	1 and onward

2.3.48.1 Switch method

Switch home mode on/off.

Request

Key	Value	Description	Availability
on	<boolean>	*Required.* True to turn on home mode, while false to turn it off.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.HomeMode"&version="1"&method="Switch"&on=true
```

Response

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

2.3.48.2 GetInfo method

Get home mode related setting and information, including current binding mobile devices if required.

Request

Key	Value	Description	Availability
need_mobiles	<boolean>	*Optional.* Home mode info will conclude which mobile devices is binding to the server, default to false.	1 and onward

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Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.HomeMode"&version="1"&method="GetInfo"&need_mobiles=true
```

Response

Key	Value	Description	Availability
on	<boolean>	Whether home mode is turned on or off.	1 and onward
reason	<integer>	Reason for the last switching of home mode.	1 and onward
rec_schedule_on	<boolean>	Is the setting of recording enabled.	1 and onward
notify_on	<boolean>	Is the setting of notification enabled.	1 and onward
streaming_on	<boolean>	Is the setting of streaming profile enabled.	1 and onward
actrule_on	<boolean>	Is the setting of action rule enabled.	1 and onward
mode_schedule_on	<boolean>	Is the home mode schedule switching enabled.	1 and onward
mode_schedule	<schedule string>	Home mode switching schedule.	1 and onward
mode_schedule_next_time	<timestamp>	Next time to switch home mode by schedule. -1 if invalid.	1 and onward
cameras	<Camera> Array	Applied cameras in home mode.	1 and onward
io_modules	<IO Module> Array	Applied IO modules in home mode.	1 and onward
geo_lat	<float>	Latitude of home position.	1 and onward
geo_lng	<float>	Longitude of home position.	1 and onward
geo_radius	<integer>	The radius in meters around home.	1 and onward
geo_delay_time	<integer>	Delayed time if geofence is triggered.	1 and onward
geo_mobiles	<Mobile> Array	List of binding mobile devices.	1 and onward
rec_schedule	<schedule string>	Recording schedule in home mode.	1 and onward
stream_profile	<string>	Integer string to indicate stream profiles used in home mode.	1 and onward
actrules	<Action Rule> Array	Which action rule is enabled in home mode.	1 and onward
custom1_det	<string>	Customize setting 1 for detection.	1 and onward
custom2_det	<string>	Customize setting 2 for detection.	1 and onward
custom1_di	<string>	Customize setting 1 for digital inputs.	1 and onward
custom2_di	<string>	Customize setting 2 for digital inputs.	1 and onward
wifi_ssid	<string>	Wifi session id.	1 and onward
notify_event_list	<Notication> Array	Notification setting in home mode.	1 and onward

Example:


```
{
  "data":{
    "actrule_on":false,
    "actrules":"-1",
    "cameras":"-1",
    "custom1_det":1,
    "custom1_di":1,
    "custom2_det":1,
    "custom2_di":1,
    "geo_delay_time":60,
    "geo_lat":25.0516760,
```


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```
      "geo_lng":121.5158620,
      "geo_mobiles":[
        {
          "at_home":false,
          "device_id":"94D996F2-1C7C-41F2-A1B4-xxxxxxxxE50A0",
          "ds_cam_version":"4.7.0-273",
          "mobile_id":3,
          "name":"November",
          "os_type":1,
          "user_name":"1"
        }
      ],
      "geo_radius":100,
      "io_modules":"-1",
      "mode_schedule":"000000000 ... 0000000000000",
      "mode_schedule_next_time":-1,
      "mode_schedule_on":true,
      "notify_event_list":[
        {
          "eventGroupType":2,
          "eventType":3,
          "filter":0
        },
        …
        {
          "eventGroupType":9,
          "eventType":76,
          "filter":0
        }
      ],
      "notify_on":true,
      "on":true,
      "reason":1,
      "rec_schedule":"11111111111 ... 111111111111111",
      "rec_schedule_on":true,
      "stream_profile":"1,1,1,1,1,1",
      "streaming_on":false
    },
    "success":true
  }
```


2.3.48.3 API Error Code

Code	Description
400	Operation Failed.
401	Parameter invalid.

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2.3.49 SYNO.SurveillanceStation.Transactions.Device

This API provides methods to acquire information of transaction devices.

Name	Version	Availability
SYNO.SurveillanceStation.Transactions.Device	1	Surveillance Station 8.1.0

Method Name	Section	Availability
Enum	2.3.49.1	1 and onward

2.3.49.1 Enum

Get the list of all transaction devices.

Request

Key	Value	Description	Availability
filterIds	<string>	*Optional.* List of transaction device id. Should write in square brackets.	1 and onward
filterDsIds	<string>	*Optional.* List of id of ds. Should write in square brackets.	1 and onward
filterEnable	<boolean>	*Optional.* Filter the enable/disable devices.	1 and onward
filterStatus	<integer>	*Optional.* Filter the specified status. The status codes are list below: 0 : Normal, 1 : Disconnected, 2 : Disabled, 3 : Deleted	1 and onward
start	<integer>	*Optional*. The offset to be shifted in the total result. If not specified, the offset will be 0. This parameter should used with the limit parameter.	1 and onward
limit	<integer>	*Optional*. Number of transaction devices to be returned. If not specified, return devices to the end of device list.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Transactions.Device"&version="1"&method="Enum"&filterIds="1,2"&filterEnable=true&start=3&limit=50
```

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Response

Key	Value	Description	Availability
alert_event	<integer>	The settings in live view alert setting.	1 and onward
baudrate	<integer>	Baud rate.	1 and onward
connector	<integer>	The connection type. The types are list below: 0 : TCP, 1 : Serial Port, 2 : Surveillance Station WebAPI	1 and onward
databits	<integer>	Data bits.	1 and onward
ds_id	<integer>	The id of DS.	1 and onward
enable	<boolean>	Is the device enabled.	1 and onward
encoding	<string>	The encoding type of the device.	1 and onward
flowcontrol	<integer>	The setting of flow control. 0 : None, 1 : XON / XOFF, 2 : RTS / CTS	1 and onward
host	<string>	The address of the device.	1 and onward
id	<integer>	The id of the device.	1 and onward
id_on_rec_server	<integer>	The id on the recording server.	1 and onward
name	<string>	The name of the device.	1 and onward
notifyschedule	<string>	The schedule in the Notification app.	1 and onward
osd_bg_color	<string>	The background color code of the OSD.	1 and onward
osd_bg_trans	<integer>	The transparency of the background color.	1 and onward
osd_fontcolor	<string>	The color code of the OSD text.	1 and onward
osd_fontsize	<integer>	The font size of the OSD text.	1 and onward
osd_fontstyle	<integer>	The style of the OSD text. 0 : Normal, 1 : Bold	1 and onward
osd_position	<integer>	The position of the OSD. 0 : Left side, 1 : Right side	1 and onward
osd_textalign	<integer>	The alignment of the OSD text. 0 : Left, 1 : Center, 2 : Right	1 and onward
pairedcam_enable	<boolean>	If the device have a camera paired.	1 and onward
pairedcam_id	<integer>	The id of the paired camera.	1 and onward
pairedcam_stream	<integer>	The stream profile of the paired camera.	1 and onward
paritycheck	<integer>	The setting of parity check. 0 : None, 1 : Odd, 2 : Even, 3 : Mark, 4 : Space	1 and onward
port	<integer>	The address port of the device.	1 and onward
pos_parsing_rule	<json>	Describe the setting of the parsing rule.	1 and onward
status	<integer>	The current status of the transaction device.	1 and onward

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		0 : Normal, 1 : Disconnected, 2 : Disabled, 3 : Deleted	
stopbits	<integer>	Stop bits of the device.	1 and onward
keyUsedCnt	<integer>	The number of total used license in system.	1 and onward
localTotalCnt	<integer>	The number of installed transaction devices.	1 and onward
timestamp	<timestamp>	UTC unix timestamp. The time when the system respond this request.	1 and onward
total	<integer>	The total device number listed in the response.	1 and onward
success	<boolean>	Whether the request is success or not.	1 and onward

Example:


```
{
  "data" : {
    "data" : [
      {
        "alert_event" : 0,
        "baudrate" : 9600,
        "connector" : 0,
        "databits" : 8,
        "ds_id" : 0,
        "enable" : false,
        "encoding" : "UTF-8",
        "flowcontrol" : 0,
        "host" : "10.13.20.88",
        "id" : 1,
        "id_on_rec_server" : 0,
        "name" : "88",
        "notifyschedule" : "",
        "osd_bg_color" : "#000000",
        "osd_bg_trans" : 100,
        "osd_fontcolor" : "#00FF00",
        "osd_fontsize" : 14,
        "osd_fontstyle" : 1,
        "osd_position" : 0,
        "osd_textalign" : 0,
        "pairedcam_enable" : true,
        "pairedcam_id" : 2,
        "pairedcam_stream" : 0,
        "paritycheck" : 0,
        "port" : 8081,
        "pos_parsing_rule" : {
          "begin" : {
            "match_type" : 1,
            "pattern" : "Synology Transaction Start"
          },
          "cancel" : {
```


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```
            "match_type" : 1,
            "pattern" : "=== CANCEL ==="
          },
          "complete" : {
            "match_type" : 1,
            "pattern" : "Transaction Finish"
          },
          "text_rule" : [
            {
              "find" : "222",
              "replacement" : "666",
              "type" : 1
            }
          ]
        },
        "status" : 2,
        "stopbits" : 1,
        "trans_source" : 0
      }
    ],
    "keyUsedCnt" : 5,
    "localTotalCnt" : 1,
    "timestamp" : "1505288896",
    "total" : 1
  },
  "success" : true
}
```


2.3.49.2 API Error Code

Code	Description
400	Operation Failed.

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2.3.50 SYNO.SurveillanceStation.Transactions.Transaction

This API provides methods to acquire information of transaction histories.

Name	Version	Availability
SYNO.SurveillanceStation.Transactions.Transaction	1	Surveillance Station 8.1.0

Method Name	Section	Availability
Enum	2.3.50.1	1 and onward
Lock	2.3.50.2	1 and onward
Unlock	2.3.50.3	1 and onward
Delete	2.3.50.4	1 and onward
Begin	2.3.50.5	1 and onward
Complete	2.3.50.6	1 and onward
Cancel	2.3.50.7	1 and onward
AppendData	2.3.50.8	1 and onward

2.3.50.1 Enum

Get the list of all transactions.

Request

Key	Value	Description	Availability
filterIds	<json>	*Optional.* List of specified ids. Should write in a format like : "[{\"pos_id\":2,\"transaction_id\":2}]" The entry "transaction_id" can be empty.	1 and onward
dsId	<integer>	*Optional.* Ds id. Specified as local ds id by default.	1 and onward
filterStatus	<integer>	*Optional.* Filter transactions by status. 0 : None 1 : Completed 2 : Canceled 3 : Incomplete	1 and onward
filterLock	<boolean>	*Optional.* Filter transactions by the lock status.	1 and onward
filterTimeFrom	<timestamp>	*Optional.* UTC unix timestamp. Filter transactions after the specified time.	1 and onward
filterTimeTo	<timestamp>	*Optional.* UTC unix timestamp. Filter transactions before the specified time.	1 and onward
filterTimeRang	<boolean>	*Optional.*	1 and onward

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eIntersect		To determine whether the “filterTimeFrom” parameter would cover the duration of the first transaction or not.	
filterKeyword	<string>	*Optional.* To filter transactions containing the specified string.	1 and onward
start	<integer>	*Optional*. The offset to be shifted in the total result. If not specified, the offset will be 0. This parameter should used with the limit parameter.	1 and onward
limit	<integer>	*Optional*. Number of transactions to be returned. If not specified, return transactions to the end of transaction list.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Transactions.Transaction"&version="1"&method="Enum"&start=0&limit=50
&dsId=0&filterStatus=1&filterIds="[{\"pos_id\":6}]"&filterTimeFrom=1505318446&filterKeyword="Synolog
y"
```

Response

Key	Value	Description	Availability
audio_format	<string>	Audio format of recording file.	1 and onward
begin_tmstmp	<timestamp>	UTC unix timestamp. The start time of this history.	1 and onward
camera_id	<integer>	The id of camera that generate the recording file.	1 and onward
camera_name	<string>	The name of camera that generate the recording file.	1 and onward
closing	<boolean>	Point out the recording file is closing or not.	1 and onward
content	<json>	The parsed content of this transaction.	1 and onward
dsId	<integer>	The dsId of the device that generate this transaction.	1 and onward
end_tmstmp	<timestamp>	UTC unix timestamp. The end time of this transaction.	1 and onward
eventId	<integer>	The id of the recording file.	1 and onward
filesize	<integer>	The file size of the recording file.	1 and onward
folder	<string>	The folder path of the recording file.	1 and onward
framecount	<integer>	Frame count of the recording file.	1 and onward
id	<string>	The id combined with the device id and the transaction id.	1 and onward
lock	<boolean>	Whether the transaction is locked or not.	1 and onward
name	<string>	Path of the recording file.	1 and onward
pos_id	<integer>	The id of the device that generate this transaction.	1 and onward
posevent_ids	<string>	The id list of the recording files. Not in use	1 and onward

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		currently.	
recording	<boolean>	Whether the recording file is recording or not.	1 and onward
snapshot_medium	<integer>	Snapshot of the recording file.	1 and onward
startOffset	<integer>	The time offset when this transaction happened in the recording file.	1 and onward
startTime	<timestamp>	UTC unix timestamp. The start time of the recording file.	1 and onward
status	<integer>	The status of the transaction. 0 : None 1 : Completed 2 : Canceled 3 : Incomplete 4 : Completed without begin 5 : Canceled without begin	1 and onward
stopTime	<timestamp>	UTC unix timestamp. The start time of the recording file.	1 and onward
transaction_id	<integer>	The id of the transaction.	1 and onward
videoType	<integer>	The video encoding type of the recording file. 0 : Unknown 1 : mjpeg 2 : mpeg4 3 : h264 5 : mxpeg 6 : h265 7 : h264+ 8 : h265+	1 and onward
video_type	<integer>	The video encoding type of the recording file. (Same as above.)	1 and onward
video_height	<integer>	The height of the recording file.	1 and onward
video_width	<integer>	The width of the recording file.	1 and onward
volume	<integer>	The volume of the recording file.	1 and onward
success	<boolean>	If the request is success.	1 and onward
timestamp	<timestamp>	UTC unix timestamp. The time when the system respond this request.	1 and onward
total	<integer>	The total transaction number listed in the response.	1 and onward

Example:


```
{
  "data" : {
    "data" : [
      {
        "archId" : false,
        "audio_format" : "PCMU",
        "begin_tmstmp" : 1505353527,
        "camera_id" : 2,
        "camera_name" : "ACTi - A82",
        "closing" : false,
        "content" : [
```


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```
            {
              "content" : "\n2017/09/14  09:44:40\n\nOolung Tea x 1\t\t\t\t$5\n",
              "line_id" : 1,
              "linebreak" : "",
              "pos_id" : 6,
              "tmstmp" : 1505353527,
              "transaction_id" : 1
            },
            {
              "content" : "Martini x 1\t\t\t\t$10\n\nTotal:\t\t$15\nCash:\t\t$15\nChange:\t\t$0\n\n",
              "line_id" : 2,
              "linebreak" : "",
              "pos_id" : 6,
              "tmstmp" : 1505353528,
              "transaction_id" : 1
            }
          ],
          "dsId" : 0,
          "end_tmstmp" : 1505353528,
          "eventId" : 148,
          "filesize" : 6287854,
          "folder" : "/volume1/surveillance/@POS/ACTi - A82",
          "framecount" : 390,
          "id" : "6_1",
          "lock" : false,
          "name" : "20170914AM/ACTi - A8220170914-094441-1505353481.mp4",
          "pos_id" : 6,
          "posevent_ids" : "148",
          "recording" : false,
          "snapshot_medium" :
"/9j/4AAQSkZJRgABAQAAAQABAAD/2wBDAAYEBQYFBAYGBQYHBwYIChAKCgkJChQODwwQFxQYGBcUFhYa
HSUfGhsjHBYWICwgIyYnKSopGR8tMC0oMCUoKSj/2wBDAQcHBwoIChMKChMoGhYaKCgoKCgoKCgoKC
goKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCgoKCj/wAARCABaAHgDASIAAhEBAxEB/8QAHwAAA
QUBAQEBAQEAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEG
E1FhByJxFDKBkaEII0KxwRVS0fAkM2JyggkKFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZ
WZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ
2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgE
CBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJ
ygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkp
aanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEA
PwDziLxZebDvjh3+gB/xqS28UXrvtMcHHI4P+NeqeEvgjF/ZD6n4xvjp1vs3hFIBQerE8D6V5N4vTRdP154vDc891
ZpwJJgAWPfGO1JxSL9pJ9SwPEt5zlIR+f8AjVTVNYlv41WUINpyNuaxw7Sv6D0qYIeKSQnUk1a4KNxqzFCT0p9tb
7iOM12OgeFLzUkH2aB5CegAzVWIOQG6Ik7QfY0jzhlI8lQ3qM132q/DXxFbIznSroqBuJVd2B+FclqOiX1gT9pt5o
sf30K/zocR3MXe47g09ZT3Wh1YHkChFJP3TU2A3Y9EeaJWilXJGcGq93ot5Go3RF1XkbecVPZ38kWB2Fa8OrZX
DA0rMLnD3NrsY7kwe+RVdLfAJxW/rqzT3bTR4Kntmq7Q7wuByaewzAuoMrg8Z5FFa2qQgwZUf6sj8qKANjxB4
98Q6/Zrbatqc9xApzsJAB+uOtclJLk5FEik96jEZzzVElmzJLVeB5qvax8cCrYTB5oA2NBjSS7jVyFUsASe1fW3gK10jT
dJt4rK5t5Z3j3uyuMgV8g2MnlsCOtbC6xNCo8uVlPscUDPtJSpVShBB5GD1rxP49+Ko2t/7BtHVyDuuXwDz1C5ry
uw8ea7YFPsup3KbAVUb8gD2BrntQ1Ga8meWZ2eRySzMckmgRnyJl6u6dZmaQKBkk1WU811fgdIJdbs0uHWO
MyKGZjgAZ9aEDOrh+FOtmwiuhZh0kUOFRgWwfasPU/Ct1YAie2liYdmUivrG3aNoE8hleMABSpBGPwonghuIz
HcRRyoequoYfrVJoLHxBqVu8LEVDa5CBmHNei/FXT7Wz8U38VpEscSvwi9BXCwQgIWHPzYxUyQkZt6uIZM/wA
XFFLfHdIQPurxRU3LMMpRtqzIm1sUnl1QizZxZXOKmdMGr2n2hMGcUTQEE8UAUkytI7k1PJGVHSqrHmkAoN
```

OpgpRQBIDVq0uGiYEHFUwcUqtigDuNA8V6hpzA2t3NDj+45Fegad8WdXtYx55huQP+ei8/mMV4hDKVqc3hxj
NVcmxveMfEMmsavc3siqjzNuKr0FY1vdx/2e0YUeb5m4t3IxWZcSlySTUUBYEnPy5/Ok9RonnopkpzRUFEAi3tX
oPgj4Yat4q02W9sxFHAjhFMpxvPfH0rF8G6DLrepwwhX8ncDLIBkIueSa+r/Cel22m6bbx6TM5tI12iF8cfl3rTYk8
Mufh5quixMt3bkqOA6fMprl73SWidtyn8q+uWdHUrMmAeoYZFcn4q8IaNeWU9w+LVlUsXXp+VK47HylqMWz
PFYzDmut8SwLHcyLGdygkA+tcvIuDQwIacAacBmpFSkBGBTttSrGeuKlWIntQBWxSHIq55NQypigRSc+tLFu9flH
OKH4NSGZGK7VwcY/8Ar0mXC3USQ8UUS0VIj6T+Enh6fStGjvtLnguJJQrXCA89M7fcV6Zay210xMRNrdD7ydOf
pXyh4A8eah4Uug1s+BvvwsflNfRvhjxdoPjS2UxSrBegcoxwwPt6itWupJ1MtxLbIftaB4/7y15V8TvEEG7yNPncxlc
yKex9K7XxHqV7oFg7ErcQMCoZua+efEmoG4mkfPLEnFSgZzusXZkkbNY7/NT7qQtKc02PmmwEjjJPFatjYPKwCr
knpVa2X5hXoXw6tEl1y1aRcpGwYj/APXQhNmA/hu7jQM9tKo9SpAqJtJeMcqRX2AscUkCr5aGMj7pUYxWLqXh
DQ9QB86xjRj/ABRfIf04p6BZnyg9mw6is+7hKg5FfSGp/Ce0kybC8ZCf4ZVz+oryrx14L1DQF33cS+Sx2q6nINAanl
c4wagjP70fWr17HtYiqcQzL9KljRNLRSzdDRUlFJZeOtaGlapPZ3MctvK8cinIZTgisQdKkhPzr9au9iT1efxfqF/p0cN
1cM6qO561yt9dFs85qtak+R1NVbknnmhiRCz7mOTUsTVTXrVqLrQM1LBNzivePg3ai1Rp7i0V0lGA7Lnb9K8M0
v76/Wvrj4fADwnYgAAbaBdTdjWPaPLwB/s0/BHQ5+tV7kBeVAB9qWBiQMk0DHSyvGM+UWH+yc14t8ZvEH2
2CG02tGqMWKE9SOASPWvb6+efjzx4lOOP3QpoHseM6k2ZCap2gy0h9Mfzqa+
+8ais/wDVv9RUsEE7UVHP1oqSj//Z",
"startOffset" : 16,
"startTime" : 1505353481,
"status" : 1,
"stopTime" : 1505353648,
"transaction_id" : 1,
"videoType" : 3,
"video_height" : 480,
"video_type" : 3,
"video_width" : 640,
"volume" : 50
}
],
"success" : true,
"timestamp" : "1505355467",
"total" : 1
},
"httpd_restart" : false,
"success" : true
}

2.3.50.2 Lock

Lock history records matching given filter rule.

Request

Key	Value	Description	Availability
filterIds	<json>	*Optional.* List of specified ids. Should write in a format like : "[{\"pos_id\":2,\"transaction_id\":2}]" The entry "transaction_id" can be empty.	1 and onward
dsId	<integer>	*Optional.* Ds id. Specified as local ds id by default.	1 and onward

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filterStatus	<integer>	*Optional.* Filter transactions by status. 0 : None 1 : Completed 2 : Canceled 3 : Incomplete	1 and onward
filterLock	<boolean>	*Optional.* Filter transactions by the lock status.	1 and onward
filterTimeFrom	<timestamp>	*Optional.* UTC unix timestamp. Filter transactions after the specified time.	1 and onward
filterTimeTo	<timestamp>	*Optional.* UTC unix timestamp. Filter transactions before the specified time.	1 and onward
filterTimeRangeIntersect	<boolean>	*Optional.* To determine whether the “filterTimeFrom” parameter would cover the duration of the first transaction or not.	1 and onward
filterKeyword	<string>	*Optional.* To filter transactions containing the specified string.	1 and onward
start	<integer>	*Optional*. The offset to be shifted in the total result. If not specified, the offset will be 0. This parameter should used with the limit parameter.	1 and onward
limit	<integer>	*Optional*. Number of transactions to be locked. If not specified, lock transactions to the end of transaction list.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Transactions.Transaction"&version="1"&method="Lock"&dsId=0&filterStatus=1&filterIds="[{\"pos_id\":2,\"transaction_id\":2}]"&filterTimeFrom=1505318446&filterKeyword="Synology"
```

Response

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

2.3.50.3 Unlock

Unlock history records matching given filter rule.

Request

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Key	Value	Description	Availability
filterIds	<json>	*Optional.* List of specified ids. Should write in a format like : "[{\"pos_id\":2,\"transaction_id\":2}]" The entry "transaction_id" can be empty.	1 and onward
dsId	<integer>	*Optional.* Ds id. Specified as local ds id by default.	1 and onward
filterStatus	<integer>	*Optional.* Filter transactions by status. 0 : None 1 : Completed 2 : Canceled 3 : Incomplete	1 and onward
filterLock	<boolean>	*Optional.* Filter transactions by the lock status.	1 and onward
filterTimeFrom	<timestamp>	*Optional.* UTC unix timestamp. Filter transactions after the specified time.	1 and onward
filterTimeTo	<timestamp>	*Optional.* UTC unix timestamp. Filter transactions before the specified time.	1 and onward
filterTimeRangeIntersect	<boolean>	*Optional.* To determine whether the “filterTimeFrom” parameter would cover the duration of the first record or not.	1 and onward
filterKeyword	<string>	*Optional.* To filter transactions containing the specified string.	1 and onward
start	<integer>	*Optional*. The offset to be shifted in the total result. If not specified, the offset will be 0. This parameter should used with the limit parameter.	1 and onward
limit	<integer>	*Optional*. Number of transactions to be unlocked. If not specified, unlock transactions to the end of transaction list.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Transactions.Transaction"&version="1"&method="Unlock"&start=0&limit=50&dsId=0&filterStatus=1&filterIds="[{\"pos_id\":2,\"transaction_id\":2}]"&filterTimeFrom=1505318446&filterKeyword="Synology"
```

Response

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

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2.3.50.4 Delete

Delete history records matching given filter rule.

Request

Key	Value	Description	Availability
filterIds	<json>	*Optional.* List of specified ids. Should write in a format like : "[{\"pos_id\":2,\"transaction_id\":2}]" The entry "transaction_id" can be empty.	1 and onward
dsId	<integer>	*Optional.* Ds id. Specified as local ds id by default.	1 and onward
filterStatus	<integer>	*Optional.* Filter transactions by status. 0 : None 1 : Completed 2 : Canceled 3 : Incomplete	1 and onward
filterLock	<boolean>	*Optional.* Filter transactions by the lock status.	1 and onward
filterTimeFrom	<timestamp>	*Optional.* UTC unix timestamp. Filter transactions after the specified time.	1 and onward
filterTimeTo	<timestamp>	*Optional.* UTC unix timestamp. Filter transactions before the specified time.	1 and onward
filterTimeRangeIntersect	<boolean>	*Optional.* To determine whether the “filterTimeFrom” parameter would cover the duration of the first transaction or not.	1 and onward
filterKeyword	<string>	*Optional.* To filter transactions containing the specified string.	1 and onward
start	<integer>	*Optional*. The offset to be shifted in the total result. If not specified, the offset will be 0. This parameter should used with the limit parameter.	1 and onward
limit	<integer>	*Optional*. Number of transactions to be deleted. If not specified, delete transactions to the end of transaction list.	1 and onward

Example:

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

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```
api="SYNO.SurveillanceStation.Transactions.Transaction"&version="1"&method="Delete"&start=0&limit=50&dsId=0&filterStatus=1&filterIds="[{\"pos_id\":2,\"transaction_id\":2}]"&filterTimeFrom=1505318446&filterKeyword="Synology"
```

Response

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

2.3.50.5 Begin

Start a session with id specified in session_id. This method needs to be sent before any other transaction methods with the same session_id.

Request

Key	Value	Description	Availability
device_name	<string>	*Required.* The name of the transaction device established in Surveillance Station.	1 and onward
session_id	<string>	*Required.* Id of a session.	1 and onward
timeout	<integer>	*Required.* The max duration of a transaction.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Transactions.Transaction"&version="1"&method="Begin"&device_name="POS01"&session_id="1"&timeout=300
```

Response

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

2.3.50.6 Complete

Complete a session with id specified in session_id. A session will be ended and a complete transaction would be generated after this request has been sent. Any data carried by AppendData method with the same session_id after would be dropped and return error.

Request

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Key	Value	Description	Availability
device_name	<string>	*Required.* The name of the transaction device established in Surveillance Station.	1 and onward
session_id	<string>	*Required.* Id of a session.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Transactions.Transaction"&version="1"&method="Complete"&device_name="POS01"&session_id="1"
```

Response

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

2.3.50.7 Cancel

Cancel a session with id specified in session_id. A session will be ended and a transaction labeled as Cancel would be generated after this request has been sent. Any data carried by AppendData method with the same session_id after would be dropped and return error.

Request

Key	Value	Description	Availability
device_name	<string>	*Required.* The name of the transaction device established in Surveillance Station.	1 and onward
session_id	<string>	*Required.* Id of a session.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Transactions.Transaction"&version="1"&method="Cancel"&device_name="POS01"&session_id="1"
```

Response

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

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2.3.50.8 AppendData

Carry data into the session with id specified in session_id.

Request

Key	Value	Description	Availability
device_name	<string>	*Required.* The name of the transaction device established in Surveillance Station.	1 and onward
session_id	<string>	*Required.* Id of a session.	1 and onward
content	<string>	*Required.* The content of the transaction. The contents sent by one requested would be regard as one a line. Users can also carry "\n" in the contents to break lines.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Transactions.Transaction"&version="1"&method="AppendData"&device_name="POS01"&session_id="1"&content="Start\n2017/01/01"
```

Response

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

2.3.50.9 API Error Code

Code	Description
400	Operation Failed.
401	Illegal parameters.

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2.3.51 SYNO.SurveillanceStation.Archiving.Pull

This API provides methods to acquire information of Archive Vault and operate on it.

Name	Version	Availability
SYNO.SurveillanceStation.Archiving.Pull	1	Surveillance Station 8.0

Method Name	Section	Availability
SaveTask	2.3.51.1	1 and onward
LoginSourceDS	2.3.51.2	1 and onward
DeleteTask	2.3.51.3	1 and onward
ListTask	2.3.51.4	1 and onward
EnableTask	2.3.51.5	1 and onward
DisableTask	2.3.51.6	1 and onward
BatchEditTask	2.3.51.7	1 and onward
GetBatchEditProgress	2.3.51.8	1 and onward
BatchEdiProgressDone	2.3.51.9	1 and onward

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2.3.51.1 SaveTask

Add or edit an Archive Vault task.

Request

Key	Value	Description	Availability
blCustomFolder	<boolean>	To determine whether using custom folder name to save or not.	1 and onward
blLimitBySize	<boolean>	To determine whether the task has file size limit or not.	1 and onward
blRotateFile	<boolean>	To determine whether the files in the task will be rotated or not.	1 and onward
blSrcRecNoOverlap	<boolean>	To determine whether the files in the task will has the same time duration as the files in server or not.	1 and onward
blUseRecDet	<boolean>	To determine whether the files in the task only include "Event Summary" or not. Enabling "Event Summary" will only archive event clips such as Motion Detection, Digital Input, Tampering Detection, Audio Detection, PIR motion Detection, ACAP Detection.	1 and onward
camIds	<CAMERA_ID>	List of desired cameras to perform archiving tasks.	1 and onward
camInfo	Array of <Camera Information Object>	Info of camera in camIds.(See 2.3.4.3)	1 and onward
dayLimit	<integer>	Specify a period of time (in days) to retain the recordings. Any recordings that were saved earlier than the specified time range will be deleted automatically.	1 and onward
didCode	<string>	Device Id	1 and onward
dsSerial	<string>	Serial of ds which has source file.	1 and onward
execTime	<timestamp>	Specify one-time task execution time.	1 and onward
hostname	<string>	Host name(ip) of archiving source server.	1 and onward
id	<integer>	Task Id.	1 and onward
name	<string>	Task name.	1 and onward
passwd	<string>	Login user password of archiving source server.	1 and onward
port	<string>	Login port of archiving source server.	1 and onward
recEndTm	<timestamp>	End time to archive the recording files.	1 and onward
recMode	<string>	Select recording modes to archive.	1 and onward
recSchedule	<schedule string>	Schedule to archive recording files.	1 and onward
recStartTm	<timestamp>	Start time to archive the recording files.	1 and onward
schedule	<schedule string>	Schedule to execute the task.	1 and onward
storagePath	<string>	Storage path.	1 and onward
type	<integer>	Archiving Task Type. UnKnown = 0 Onetime_Immediate = 1	1 and onward

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		Onetime_Schedule = 2 Schedule = 3 Tiering = 4	
username	<string>	Login user name of archiving source server.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Archiving.Pull"&version="1"&method="SaveTask"id=2&name="longtime5"&
blSrcRecNoOverlap=false&storagePath="%2Fvolume2%2Fsurveillance"&blCustomFolder=false&dayLimit="
30"&blLimitBySize=false&blRotateFile=true&hostname="127.0.0.1"&port="5000"&protocol=false&userna
me="admin"&didCode=""&type=3&camIds="2"&camInfo=%5B
%7B"checked"%3Atrue,"id"%3A2,"newName"%3A"Vivotek%20-
%20PT81335","ip"%3A"10.13.22.184","port"%3A80,"deleted"%3Afalse,"folder"%3A"%2Fvolume2%2Fsurve
illance%2FVivotek%20-
%20PT81335","volumeSpace"%3A9.938,"vendor"%3A"Vivotek","model"%3A"PT8133","firmware"%3A"","c
hannel"%3A"1","feRegionList"%3A%5B%5D,"recDeleted"%3Afalse%7D
%5D&execTime=0&schedule="11111111111111111111111111111111111111111111111111111111
11111111111111111111111111111111111111111111111111111111111111111111111111111111
11111111111111111111111111111111111111111111111111111111111111111111111111111111
11111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111"&blUseRecDet=false&recStartTm=1540828800&recEndTm=0&recSchedule="111111
11111111111111111111111111111111111111111111111111111111111111111111111111111111
11111111111111111111111111111111111111111111111111111111111111111111111111111111
11111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111"&dsSerial="1880
PEN763106"&recMode="1,10,2,5,8,9,3,4"&api=SYNO.SurveillanceStation.Archiving.Pull
```

Response

Key	Value	Description	Availability
name	<string>	Task name	1 and onward
id	<integer>	Task Id	1 and onward
success	<boolean>	Execution success or not	1 and onward

Example:

{"data":{"id":8,"name":"2","success":true},"success":true}

2.3.51.2 LoginSourceDS

Login source server of an archive task to get informations including ds serial.

Request

Key	Value	Description	Availability
port	<string>	Port of the ds server.	1 and onward

hostname	<string>	Hostname of the ds server.	1 and onward
protocol	<boolean>	Use HTTPS Protocol or not.	1 and onward
username	<string>	User name of the ds server.	1 and onward
passwd	<string>	Password of the ds server.	1 and onward
archId	<integer>	Archive task id.	1 and onward
didCode	<string>	Device Id.	1 and onward
srcDsId	<integer>	Id of the ds server.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Archiving.Pull"&version="1"&method="LoginSourceDs"&undefined="You
%20can%20add%20Surveillance%20Station%20as%20the%20source%20recording%20server%20for
%20archiving%20tasks."&srcDsId=0&hostname=""&port="5000"&protocol=false&username="admin"
```

Response

Key	Value	Description	Availability
cameras	Array of <Camera Information Object>	Info of camera in the archive task.(See 2.3.4.3)	1 and onward
dsSerial	<string>	Serial of source ds.	1 and onward
success	<boolean>	Execution success or not	1 and onward

Example:


```
{
  "data": {
    "api": "SYNO.SurveillanceStation.Camera",
    "data": {
      "cameras": [
        {
          "DINum": 0,
          "DONum": 0,
          "analyticsType": 0,
          "audioCodec": 2,
          "audioOut": false,
          "blG726LE": false,
          "blPtzShowIcon": true,
          "blReceivePocZero": false,
          "channel": "1",
          "deleted": false,
          "deviceType": 4,
          "doorbellNum": 0,
          "dsId": 0,
          "enableLowProfile": true,
          "enableRecordingKeepDays": false,
          "enableRecordingKeepSize": true,
          "enabled": true,
          "extDIDev": 0,
          "extDIPorts": -1,
```


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```
    "feRegionList": [],
    "firmware": "",
    "fisheyeDispMode": "",
    "fisheyeParam": {},
    "folder": "/volume2/surveillance/Vivotek - PT81335",
    "fov": "",
    "hasCamParam": true,
    "hasEdgeStg": false,
    "id": 2,
    "idOnRecServer": 0,
    "ip": "10.13.22.184",
    "isAudioDisableRec": false,
    "isDisableRec": false,
    "isEnableExtDI": false,
    "isUnrecognized": false,
    "ledCap": false,
    "liveViewSource": 0,
    "mobileLiveViewSource": 0,
    "model": "PT8133",
    "mountType": 0,
    "newName": "Vivotek - PT81335",
    "pairedSpeakerEnabled": false,
    "pairedSpeakerId": 0,
    "port": 80,
    "postRecordTime": 5,
    "preRecordTime": 5,
    "presetNum": 20,
    "ptzCap": 11,
    "recShare": "surveillance",
    "recShareMountType": 0,
    "recSharePath": "/volume2/surveillance",
    "recStatus": 0,
    "recStorageStatus": 0,
    "recVolume": "/volume2",
    "recordTime": 30,
    "recordingKeepDays": 30,
    "recordingKeepSize": "10",
    "relayPortList": [],
    "rotateOption": 0,
    "speedDryCap": false,
    "status": 15,
    "statusFlags": 0,
    "stmFisheyeType": 0,
    "stream2": {
      "bitrateCtrl": 1,
      "constantBitrate": "1000",
      "fps": 10,
      "quality": "5",
      "resolution": "640x400"
    },
    "stream3": {
```


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```
      "bitrateCtrl": 1,
      "constantBitrate": "1000",
      "fps": 10,
      "quality": "5",
      "resolution": "640x400"
    },
    "tvStandard": 0,
    "uiStmNoList": "2,3,3",
    "updateTime": 12465,
    "vendor": "Vivotek",
    "videoCodec": 3,
    "videoMode": "",
    "volumeSpace": "9.938",
    "wiperCap": false
  },
  {
    "DINum": 2,
    "DONum": 0,
    "analyticsType": 0,
    "audioCodec": 2,
    "audioOut": false,
    "blG726LE": false,
    "blPtzShowIcon": true,
    "blReceivePocZero": false,
    "channel": "1",
    "deleted": false,
    "deviceType": 4,
    "doorbellNum": 0,
    "dsId": 0,
    "enableLowProfile": true,
    "enableRecordingKeepDays": false,
    "enableRecordingKeepSize": true,
    "enabled": true,
    "extDIDev": 0,
    "extDIPorts": -1,
    "feRegionList": [],
    "firmware": "",
    "fisheyeDispMode": "",
    "fisheyeParam": {},
    "folder": "/volume2/surveillance/zDIMAX - PT-31E",
    "fov": "",
    "hasCamParam": false,
    "hasEdgeStg": false,
    "id": 10,
    "idOnRecServer": 0,
    "ip": "10.13.22.52",
    "isAudioDisableRec": false,
    "isDisableRec": false,
    "isEnableExtDI": false,
    "isUnrecognized": false,
    "ledCap": false,
```


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```
    "liveViewSource": 0,
    "mobileLiveViewSource": 0,
    "model": "PT-31E",
    "mountType": 0,
    "newName": "zDIMAX - PT-31E",
    "pairedSpeakerEnabled": false,
    "pairedSpeakerId": 0,
    "port": 80,
    "postRecordTime": 5,
    "preRecordTime": 5,
    "presetNum": 0,
    "ptzCap": 267,
    "recShare": "surveillance",
    "recShareMountType": 0,
    "recSharePath": "/volume2/surveillance",
    "recStatus": 0,
    "recStorageStatus": 0,
    "recVolume": "/volume2",
    "recordTime": 30,
    "recordingKeepDays": 30,
    "recordingKeepSize": "10",
    "relayPortList": [],
    "rotateOption": 0,
    "speedDryCap": false,
    "status": 15,
    "statusFlags": 0,
    "stmFisheyeType": 0,
    "stream1": {
      "bitrateCtrl": 1,
      "constantBitrate": "1000",
      "fps": 10,
      "quality": "5",
      "resolution": "640x480"
    },
    "stream2": {
      "bitrateCtrl": 1,
      "constantBitrate": "1000",
      "fps": 10,
      "quality": "5",
      "resolution": "640x400"
    },
    "stream3": {
      "bitrateCtrl": 1,
      "constantBitrate": "1000",
      "fps": 10,
      "quality": "5",
      "resolution": "640x400"
    },
    "tvStandard": 0,
    "uiStmNoList": "1,1,1",
    "updateTime": 12464,
```


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```
      "vendor": "EDIMAX",
      "videoCodec": 3,
      "videoMode": "",
      "volumeSpace": "8.492",
      "wiperCap": false
    },
    {
      "DINum": 1,
      "DONum": 0,
      "analyticsType": 0,
      "audioCodec": 2,
      "audioOut": false,
      "blG726LE": false,
      "blPtzShowIcon": false,
      "blReceivePocZero": false,
      "channel": "Original",
      "deleted": false,
      "deviceType": 8,
      "doorbellNum": 0,
      "dsId": 0,
      "enableLowProfile": true,
      "enableRecordingKeepDays": false,
      "enableRecordingKeepSize": true,
      "enabled": true,
      "extDIDev": 0,
      "extDIPorts": -1,
      "feRegionList": [
        {
          "camId": 11,
          "id": 1,
          "location": 0,
          "name": "Default Region",
          "posX": 500,
          "posY": 500,
          "regions": [
            {
              "camId": 11,
              "id": 1,
              "location": 0,
              "name": "Default Region",
              "posX": 500,
              "posY": 500,
              "strSubRegionInfo": "[]",
              "type": 0,
              "zoom": 25
            }
          ],
          "strSubRegionInfo": "[]",
          "type": 0,
          "zoom": 25
        },
```


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```
    {
      "camId": 11,
      "id": 2,
      "location": 0,
      "name": "Default Panorama",
      "posX": 500,
      "posY": 250,
      "regions": [
        {
          "camId": 11,
          "id": 2,
          "location": 0,
          "name": "Default Panorama",
          "posX": 500,
          "posY": 250,
          "strSubRegionInfo": "[]",
          "type": 1,
          "zoom": 25
        }
      ],
      "strSubRegionInfo": "[]",
      "type": 1,
      "zoom": 25
    },
    {
      "camId": 11,
      "id": 3,
      "location": 0,
      "name": "Default Double Panorama",
      "posX": 500,
      "posY": 250,
      "regions": [
        {
          "camId": 0,
          "id": 0,
          "location": 0,
          "name": "",
          "posX": 500,
          "posY": 250,
          "strSubRegionInfo": "",
          "type": 6,
          "zoom": 25
        },
        {
          "camId": 0,
          "id": 0,
          "location": 0,
          "name": "",
          "posX": 500,
          "posY": 750,
          "strSubRegionInfo": "",
```


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```
            "type": 6,
            "zoom": 25
          }
        ],
        "strSubRegionInfo":
"[{\"camId\":0,\"id\":0,\"location\":0,\"name\":\"\",\"posX\":500,\"posY\":250,\"strSubRegionInfo\":\"\",\
"type\":6,\"zoom\":25},
{\"camId\":0,\"id\":0,\"location\":0,\"name\":\"\",\"posX\":500,\"posY\":750,\"strSubRegionInfo\":\"\",\"t
ype\":6,\"zoom\":25}]",
        "type": 2,
        "zoom": 25
      },
      {
        "camId": 11,
        "id": 4,
        "location": 0,
        "name": "Default Triple View",
        "posX": 500,
        "posY": 250,
        "regions": [
          {
            "camId": 0,
            "id": 0,
            "location": 0,
            "name": "",
            "posX": 250,
            "posY": 250,
            "strSubRegionInfo": "",
            "type": 5,
            "zoom": 25
          },
          {
            "camId": 0,
            "id": 0,
            "location": 0,
            "name": "",
            "posX": 750,
            "posY": 250,
            "strSubRegionInfo": "",
            "type": 5,
            "zoom": 25
          },
          {
            "camId": 0,
            "id": 0,
            "location": 0,
            "name": "",
            "posX": 500,
            "posY":
 750,
            "strSubRegionInfo": "",
```


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```
            "type": 6,
            "zoom": 25
          }
        ],
        "strSubRegionInfo":
"[{\"camId\":0,\"id\":0,\"location\":0,\"name\":\"\",\"posX\":250,\"posY\":250,\"strSubRegionInfo\":\"\",\
"type\":5,\"zoom\":25},
{\"camId\":0,\"id\":0,\"location\":0,\"name\":\"\",\"posX\":750,\"posY\":250,\"strSubRegionInfo\":\"\",\"t
ype\":5,\"zoom\":25},
{\"camId\":0,\"id\":0,\"location\":0,\"name\":\"\",\"posX\":500,\"posY\":750,\"strSubRegionInfo\":\"\",\"t
ype\":6,\"zoom\":25}]",
        "type": 3,
        "zoom": 25
      },
      {
        "camId": 11,
        "id": 5,
        "location": 0,
        "name": "Default Quad View",
        "posX": 500,
        "posY": 250,
        "regions": [
          {
            "camId": 0,
            "id": 0,
            "location": 0,
            "name": "",
            "posX": 250,
            "posY": 250,
            "strSubRegionInfo": "",
            "type": 5,
            "zoom": 25
          },
          {
            "camId": 0,
            "id": 0,
            "location": 0,
            "name": "",
            "posX": 750,
            "posY": 250,
            "strSubRegionInfo": "",
            "type": 5,
            "zoom": 25
          },
          {
            "camId": 0,
            "id": 0,
            "location": 0,
            "name": "",
            "posX": 250,
            "posY": 750,
```


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```
            "strSubRegionInfo": "",
            "type": 5,
            "zoom": 25
          },
          {
            "camId": 0,
            "id": 0,
            "location": 0,
            "name": "",
            "posX": 750,
            "posY": 750,
            "strSubRegionInfo": "",
            "type": 5,
            "zoom": 25
          }
        ],
        "strSubRegionInfo":
"[{\"camId\":0,\"id\":0,\"location\":0,\"name\":\"\",\"posX\":250,\"posY\":250,\"strSubRegionInfo\":\"\",\
"type\":5,\"zoom\":25},
{\"camId\":0,\"id\":0,\"location\":0,\"name\":\"\",\"posX\":750,\"posY\":250,\"strSubRegionInfo\":\"\",\"t
ype\":5,\"zoom\":25},
{\"camId\":0,\"id\":0,\"location\":0,\"name\":\"\",\"posX\":250,\"posY\":750,\"strSubRegionInfo\":\"\",\"t
ype\":5,\"zoom\":25},
{\"camId\":0,\"id\":0,\"location\":0,\"name\":\"\",\"posX\":750,\"posY\":750,\"strSubRegionInfo\":\"\",\"t
ype\":5,\"zoom\":25}]",
        "type": 4,
        "zoom": 25
      }
    ],
    "firmware": "",
    "fisheyeDispMode": "Original",
    "fisheyeParam": {
      "bitrate_control_": "",
      "bitrate_control_h264": "",
      "bitrate_control_h265": "",
      "bitrate_control_mjpeg": "",
      "bitrate_control_mpeg4": "",
      "bitrate_control_mxpeg": "",
      "bitrate_control_smart_264": "",
      "bitrate_control_smart_265": "",
      "channel_list": "1",
      "default_channel": "1",
      "limit_shape": "none",
      "limit_x_min": "0",
      "limit_y_min": "0",
      "radius_factor": "0.9, 1.02, 0.9, 1.02",
      "radius_factor_panorama": "1.02",
      "region_limit": "0.98",
      "region_limit_panorama": "0.98",
      "transform_offset_x": "0",
      "transform_offset_y": "0",
```


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```
    "transform_xyratio": "1",
    "wall_mount_limit_factor_x": "1.02",
    "wall_mount_limit_factor_y": "1.02",
    "wall_mount_phi_fov": "153",
    "wall_mount_theta_factor": "1"
  },
  "folder": "/volume2/surveillance/OncamGrandeye - EVO-12NCD",
  "fov": "",
  "hasCamParam": true,
  "hasEdgeStg": false,
  "id": 11,
  "idOnRecServer": 0,
  "ip": "10.13.22.96",
  "isAudioDisableRec": false,
  "isDisableRec": false,
  "isEnableExtDI": false,
  "isUnrecognized": false,
  "ledCap": false,
  "liveViewSource": 0,
  "mobileLiveViewSource": 0,
  "model": "EVO-12NCD",
  "mountType": 0,
  "newName": "OncamGrandeye - EVO-12NCD",
  "pairedSpeakerEnabled": false,
  "pairedSpeakerId": 0,
  "port": 80,
  "postRecordTime": 5,
  "preRecordTime": 5,
  "presetNum": 0,
  "ptzCap": 0,
  "recShare": "surveillance",
  "recShareMountType": 0,
  "recSharePath": "/volume2/surveillance",
  "recStatus": 0,
  "recStorageStatus": 0,
  "recVolume": "/volume2",
  "recordTime": 30,
  "recordingKeepDays": 30,
  "recordingKeepSize": "10",
  "relayPortList": [],
  "rotateOption": 0,
  "speedDryCap": false,
  "status": 15,
  "statusFlags": 0,
  "stmFisheyeType": 50,
  "stream1": {
    "bitrateCtrl": 1,
    "constantBitrate": "1000",
    "fps": 5,
    "quality": "5",
    "resolution": "1472x1384"
```


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```
        },
        "stream2": {
          "bitrateCtrl": 1,
          "constantBitrate": "1000",
          "fps": 10,
          "quality": "5",
          "resolution": "640x400"
        },
        "stream3": {
          "bitrateCtrl": 1,
          "constantBitrate": "1000",
          "fps": 10,
          "quality": "5",
          "resolution": "640x400"
        },
        "tvStandard": 0,
        "uiStmNoList": "1,1,1",
        "updateTime": 12466,
        "vendor": "OncamGrandeye",
        "videoCodec": 3,
        "videoMode": "Original View",
        "volumeSpace": "9.782",
        "wiperCap": false
      }
    ]
  },
  "didCode": "",
  "dsSerial": "1880PEN763106",
  "method": "List",
  "success": true,
  "version": 9
},
"success": true
}
```


2.3.51.3 DeleteTask

Delete an Archive Vault task.

Request

Key	Value	Description	Availability
id	<integer>	Task Id.	1 and onward
keepRec	<boolean>	Keep the recording files or not.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Archiving.Pull"&version="1"&method="DeleteTask"&id=2&keepRec=false
```

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Response

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

Example:

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

2.3.51.4 ListTask

List exist Archive Vault tasks.

Request

No parameter is required.

Example:

```
GET /webapi/entry.cgi?api="SYNO.SurveillanceStation.Archiving.Pull"&version="1"&method="ListTask"
```

Response

Key	Value	Description	Availability
BandwidthLimit1	<integer>	First limit value of bandwidth control limit.	1 and onward
BandwidthLimit2	<integer>	Second limit value of bandwidth control limit.	1 and onward
blCustomFolder	<boolean>	To determine whether using custom folder name to save or not.	1 and onward
blLimitBySize	<boolean>	To determine whether the task has file size limit or not.	1 and onward
blLimitByDate	<boolean>	To determine whether the task has date limit or not.	1 and onward
blRotateFile	<boolean>	To determine whether the files in the task will be rotated or not.	1 and onward
blAllCam	<boolean>	To determine archive task includes all camera or not.	1 and onward
blSrcRecNoOverlap	<boolean>	To determine whether the files in the task will has the same time duration as the files in server or not.	1 and onward
blUseRecDet	<boolean>	To determine whether the files in the task only include "Event Summary" or not. Enabling "Event Summary" will only archive event clips such as Motion Detection, Digital Input, Tampering Detection, Audio Detection, PIR motion Detection, ACAP	1 and onward

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		Detection.	
bwSchedule	<schedule string>	Schedule for bandwidth control.	1 and onward
configuring	<boolean>	The task is configuring or not.	1 and onward
currentSpeedLimit	<integer>	Current speed limit.	1 and onward
customFolder	<string>	The path of custom folder if blCustomFolder is true.	1 and onward
camIds	<CAMERA_ID>	List of desired cameras to perform archiving tasks.	1 and onward
cameras	Array of <Camera Information Object>	Info of camera in camIds.(See 2.3.4.3)	1 and onward
dayLimit	<integer>	Specify a period of time (in days) to retain the recordings. Any recordings that were saved earlier than the specified time range will be deleted automatically.	1 and onward
deleted	<boolean>	The task is deleted or not.	1 and onward
didCode	<string>	Device Id.	1 and onward
diffSerial	<string>	Different ds serial if ds serial is modified.	1 and onward
dsSerial	<string>	login source ds serial.	1 and onward
enabled	<boolean>	Task is enabled or not.	1 and onward
execTime	<timestamp>	Specify one-time task execution time.	1 and onward
fromId	<integer>	ds id.	1 and onward
hostname	<string>	Host name(ip) of archiving source server.	1 and onward
id	<integer>	Task Id.	1 and onward
lastConnectTime	<timestamp>	Last connect time.	1 and onward
lastEventId	<integer>	Last event Id.	1 and onward
lastEventIdByCam	<Json object>	The json object which key is camera id and value is lastEventId.	1 and onward
migrating	<boolean>	The task is currently migrating(changing folder path) or not.	1 and onward
name	<string>	Task name.	1 and onward
occupiedSize	<long long>	The file size that task total used.	1 and onward
passwd	<string>	Login user password of archiving source server.	1 and onward
progressPercent	<integer>	The percentage of the task if the task is executing.	1 and onward
protocol	<integer>	Protocal that connect to Archiving server. Http: 0, Https: 1	1 and onward
port	<string>	Port of archiving source server.	1 and onward
recEndTm	<timestamp>	End time to archive the recording files.	1 and onward
recMode	<string>	Select recording modes to archive.	1 and onward
recSchedule	<schedule string>	Schedule for archive recording files.	1 and onward
recStartTm	<timestamp>	Start time to archive the recording files.	1 and onward
schedule	<schedule string>	Schedule for execute the task.	1 and onward
shareUpdating	<boolean>	Whether share files are updating.	1 and onward
sizeLimitGB	<integer>	Size limit in GB	1 and onward

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srcDsId	<integer>	NAS device Id of source device.	1 and onward
status	<integer>	Status value of current task. normal: 0 disabled: 1 completed: 2 deleted: 3 abnormal: 4	1 and onward
storageAvailable	<boolean>	Whether storage is available or not.	1 and onward
storagePath	<string>	Storage Path.	1 and onward
tierTaskId	<integer>	Tier Task Id.	
transmissionSpeed	<float>	Transmission speed if task is executing.	1 and onward
type	<integer>	Task Type. UnKnown = 0 Onetime_Immediate = 1 Onetime_Schedule = 2 Schedule = 3 Tiering = 4	1 and onward
username	<string>	Login user name of archiving source server.	1 and onward
writingRecPath	<string>	The path of the last event updated.	1 and onward

Example:


```
"data":{"task":
[{"bandwidthLimit1":1000,"bandwidthLimit2":1000,"blAllCam":false,"blCustomFolder":false,"blLimitByDate
":true,"blLimitBySize":false,"blRotateFile":true,"blSrcRecNoOverlap":false,"blUseRecDet":false,"bwSchedul
e":"111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111111","cam
Ids":"10","cameras":
[{"channel":"1","deviceType":4,"firmware":"","folder":"/volume2/surveillance/@ArchiveVault/2/zDIMAX -
PT-31E","id":10,"ip":"10.13.22.52","model":"PT-31E","newName":"zDIMAX - PT-
31E","port":80,"recDeleted":false,"status":0,"vendor":"EDIMAX"}],"configuring":false,"currentSpeedLimit":
0,"customFolder":"","dayLimit":30,"deleted":false,"didCode":"","diffSerial":"","dsSerial":"1880PEN763106",
"enabled":true,"execTime":0,"fromId":1,"hostname":"127.0.0.1","id":8,"lastConnectTime":1542334200,"la
stEventId":0,"lastEventIdByCam":"null","migrating":false,"name":"2","occupiedSize":0,"passwd":"","port":5
000,"progressPercent":0,"protocol":0,"recDetType":"","recEndTm":0,"recMode":"1,10,2,5,8,9,3,4","recSch
edule":"111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111111",
"recStartTm":1542124800,"schedule":"111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111","shareUpdating":false,"sizeLimitGB":10,"srcDsId":0,"status":2,"storageAvail
able":true,"storagePath":"/volume2/surveillance","tierTaskId":0,"transmissionSpeed":0,"type":3,"usernam
```


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e":"admin","writingRecPath":""}],"total":1}

2.3.51.5 EnableTask

Enable Archive Vault task. Completed one-time task cannot be enabled or disabled.

Request

Key	Value	Description	Availability
id	<integer>	Task Id.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Archiving.Pull"&version="1"&method="EnableTask"&id=
"2"
```

Response

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

Example:

{"success":true}

2.3.51.6 DisableTask

Disable an Archive Vault task. Completed one time task cannot be enabled or disabled.

Request

Key	Value	Description	Availability
id	<integer>	Task Id.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Archiving.Pull"&version="1"&method="DisableTask"&id=
"2"
```

Response

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

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Example:

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

2.3.51.7 BatchEditTask

Disable Archive Vault task. Completed one time task cannot be enabled or disabled.

Request

Key	Value	Description	Availability
taskIds	<string>	Task Ids that wants to apply the settings, seperated by ",".	1 and onward
attrs	<Object>	The key and value setting pairs that will apply .The key can be the key in the request of the method SaveTask except some unique values.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Archiving.Pull"&version="1"&method="BatchEditTask"&taskIds="3,4,5,6"&a
ttrs={"schedule":"111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111"}
```

Response

Key	Value	Description	Availability
success	<boolean>	Execution success or not	1 and onward
pid	<integer>	Batch edit process id	1 and onward

Example:

```
{"data":{"pid":26631},"success":true}
```

2.3.51.8 GetBatchEditProgress

Get the progress of batch edit.

Request

Key	Value	Description	Availability

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pid	<integer>	Batch Edit process id	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Archiving.Pull"&version="1"&method="GetBatchEditProgress”&pid=31929
```

Response

Key	Value	Description	Availability
success	<boolean>	Execution success or not	1 and onward
progress	0 .. 100	The complete percentage of batch edit progress.	1 and onward

Example:

```
{"data":{"progress":100},"success":true}
```

2.3.51.9 BatchEditProgressDone

Send after the batch edit progress is done(use GetBatchEditProgress to check), in order to clean progress data.

Request

Key	Value	Description	Availability
pid	<integer>	Batch Edit process id	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Archiving.Pull"&version="1"&method="BatchEditProgressDone"&pid=31929
```

Response

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

Example:

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

2.3.51.10 API Error Code

Code	Description

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400	Execution Failed.
401	Guest or disabled account.
446	Task Path already exist.
534	Exceed name length limitation.
522	Original Task is Migrating.

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2.3.52 SYNO.SurveillanceStation.YoutubeLive

This API provides methods to get information of youtube liveview.

Name	Version	Availability
SYNO.SurveillanceStation.YoutubeLive	1	Surveillance Station 8.2

Method Name	Section	Availability
Load	2.3.52.1	1 and onward
Save	2.3.52.2	1 and onward
CloseLive	2.3.52.3	1 and onward

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2.3.52.1 Load

Get youtube live broadcast setting and current information.

Request

No parameter is required.

Example:

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

Response

Key	Value	Description	Availability
data	<YoubtubeLive Object>	Information of youtube live	1 and onward
success	<boolean>	Execution success or not	1 and onward

<YoubtubeLive Object> Definitions:

Key	Value	Description	Availability
cam_id	<integer>	Id of camera.	1 and onward
connect	<boolean>	Rmtp connect or not	1 and onward
key	<string>	Youtube serial key	1 and onward
live_on	<boolean>	Broadcast live or not	1 and onward
rtmp_path	<string>	Broadcast rtmp path	1 and onward
stream_profile	<integer>	Camera stream profile	1 and onward

Example:

```
{
  "data" : {
    "cam_id" : 2,
    "connect" : false,
    "key" : "1ma7-s2gw-b7ja-e0rb",
    "live_on" : false,
    "rtmp_path" : "rtmp://a.rtmp.youtube.com/live2",
    "stream_profile" : 1
  },
  "success" : true
}
```

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2.3.52.2 Save

Set youtube live broadcast information.

Request

Key	Value	Description	Availability
rtmp_path	<string>	Camera rtmp path	1 and onward
key	<string>	Youtube serial key	1 and onward
cam_id	<integer>	Camera Id	1 and onward
stream_profile	<integer>	Camera stream profile	1 and onward
live_on	<bollean>	Youtube live broadcast start or not	1 and onward

Example:

```
GET /webapi/entry.cgi?api="SYNO.SurveillanceStation.YoutubeLive"&method="Save"&version="1"&
rtmp_path="rtmp://a.rtmp.youtube.com/live2"&key="1ma7-s2gw-b7ja-
e0rb"&cam_id="2"&stream_profile="1"&live_on="true"
```

Response

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

Example:

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

2.3.52.3 CloseLive

Close youtube live broadcast.

Request

No parameter is required.

Example:

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

Response

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

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Example:

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

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2.3.53 SYNO.SurveillanceStation.IVA

This API provides methods to get information of deep video analytics task list and settings.

Name	Version	Availability
SYNO.SurveillanceStation.IVA	1	Surveillance Station 8.2.9

Method Name	Section	Availability
ListTask	2.3.53.1	1 and onward
SaveTask	2.3.53.2	1 and onward
DeleteTask	2.3.53.3	1 and onward
EnableTask	2.3.53.4	1 and onward
DisableTask	2.3.53.5	1 and onward
ResetPplCntCounter	2.3.53.6	1 and onward

2.3.53.1 ListTask

Get deep video analytics task list.

Request

No parameter is required.

Example:

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

Response

Key	Value	Description	Availability
data	<Task List Object>	Information of task list.	1 and onward
success	<boolean>	Execution success or not	1 and onward

<Task List Object> Definitions:

Key	Value	Description	Availability
task	Array of <Task>	List of task info.	1 and onward
total	<integer>	The total number of tasks.	1 and onward

<Task> Definitions:

Key	Value	Description	Availability
analyze_type	<string>	Paired camea name	1 and onward
area_grid	<boolean>	The deleted status of this task	1 and onward
area_line	<boolean>	The enabled status of this task	1 and onward
area_region	<integer>	The id of this task	1 and onward
camera_id	<string>	The name of this task	1 and onward
camera_name	<integer>	The event count of this task today	1 and onward
deleted	<boolean>	the status of this task to be deleted or not	1 and onward
det_fg_obj	<integer>	the bitmap of status of detected object for	1 and onward

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		detecting specific object. ● 1 - detect people ● 2 - detect vehicle	
det_region	<string>	the vertexes of detected region of detection task, concatenated by ","	1 and onward
det_region_cnt	<integer>	the number of detected region	1 and onward
enable	<boolean>	the status of this task to start processing	1 and onward
enable_min_duration	<boolean>	the status of the shortest limitation of object staying in the detected region.	1 and onward
enable_recording	<boolean>	the status to record the video of detected result	1 and onward
enable_schedule	<boolean>	the status to enable the schedule of this task	1 and onward
event_integration	<boolean>	the status to integrate motion detected event with surveillance station	1 and onward
fence_dir_flag	<integer>	the status of detection direction of virtual fence task. ● 1 - detect one direction of the fence ● 2 - the other direction of the fence ● 3 - the both 2 directions of the fence	1 and onward
fence_line	<string>	the vertexes of virtual fence of intrusion detection task, concatenated by ","	1 and onward
id	<integer>	the id of this DVA task	1 and onward
id_on_rec_server	<integer>	the id of this DVA task on recording server. it is only work on cms host.	1 and onward
min_duration	<integer>	the seconds of the shortest limitation of object staying in the detected region.	1 and onward
min_obj_size	<double>	the minimum limitation of object size of detection.	1 and onward
min_obj_size_option	<integer>	the status to limit the object size of detection. ● 0 - disable limitation ● 1 - enable limitation	1 and onward
name	<string>	the name of this DVA task	1 and onward
owner_ds_id	<integer>	The DS id of which DS the recording belongs 0: Local Host > 0: The id of recording server	1 and onward
people_display_info	<integer>	The bitmap of the display info. ● 1 - DISPLAY_ANNOTATION ● 2 - DISPLAY_HINT_WHEN_PASS ● 4 - DISPLAY_REGION ● 8 - DISPLAY_BORDER ● 16 - DISPLAY_LINE ● 32 - DISPLAY_PEOPLE_COUNT_LIVE ● 64 - DISPLAY_PEOPLE_COUNT_REC ● 128 - DISPLAY_PEOPLE_STAY ● 324 DISPLAY_PEOPLE_GROUP_COUNT ● 512 - DISPLAY_PEOPLE_GROUP_STAY	1 and onward
people_display_pos	<integer>	the status of position of people counting displayed result on task preview. ● 0 - top right ● 1 - bottom right	1 and onward

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		● 2 - top left ● 3 - bottom left	
people_enable_stay_max	<boolean>	the status of to limit the stay count or not	1 and onward
people_enter	<integer>	the array index of people entering it could be changed with people_exit to swap counting result.	1 and onward
people_exit	<integer>	the array index of people exiting it could be changed with people_enter to swap counting result.	1 and onward
people_hint_pos	<string>	the vertexes of people direction of people counting task, concatenated by ","	1 and onward
people_mode	<integer>	the status of counting mode for people counting task ● 0 - counting for both enter and leave people ● 1 - counting for only enter people ● 2 - counting for only leave people	1 and onward
det_region	<string>	the vertexes of detected region of detection task, concatenated by ","	1 and onward
people_stay_max	<integer>	the limit number of people stayed. Only work when people_enable_stay_max is true.	1 and onward
post_rec_time	<integer>	the seconds to clip the record after detection	1 and onward
pre_rec_time	<integer>	the seconds to clip the record before detection	1 and onward
region_type	<integer>	the status of region type ● 0 - Include region ● 1 - Exclude region	1 and onward
reset_cnt_frequency	<integer>	the type of reset people count frequency. ● 1 - reset people count by days ● 2 - reset people count by weeks ● 3 - reset people count by months ● 4 - reset people count by years	1 and onward
reset_weekday	<integer>	the weekday to reset count	1 and onward
reset_date	<integer>	the date of the month to reset count	1 and onward
reset_time_minute	<integer>	the minutes of the hour in the day to reset count	1 and onward
reset_time_hour	<integer>	the hours of the day to reset count	1 and onward
schedule	<string>	the bitmap of hours in a week to process task.	1 and onward
scheduleOn	<boolean>	the status to enable the schedule of this task	1 and onward
status_flags	<integer>	the bitmap of task status. ● 0 - DEV_STATUS_FLAG_NONE ● 1 - DEV_STATUS_FLAG_UNRECOGNIZED ● 2 - DEV_STATUS_FLAG_DISABLING ● 4 -DEV_STATUS_FLAG_ENABLING ● 8 -DEV_STATUS_FLAG_RESTARTING ● 16 -DEV_STATUS_FLAG_DELETING ● 32 -DEV_STATUS_FLAG_CONFIGURING	1 and onward

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		● 64 -DEV_STATUS_FLAG_HW_RESTARTING ● 128 -DEV_STATUS_FLAG_UNSTABLE	
stream_profile	<integer>	the status of camera stream level ● 0 - level high ● 1 - level medium ● 2 - level low	1 and onward
sync_to_host	<boolean>	the status of this task to sync people counting result to cms host	1 and onward
trans_flags	<integer>	the bitmap of transient status of this task ● 0 -DVA_TRANS_FLAG_NORMAL ● 1 -DVA_TRANS_FLAG_CAM_FPS ● 2 - DVA_TRANS_FLAG_FETCH_FPS ● 4 -DVA_TRANS_FLAG_SIMULATING	1 and onward
trigger_alert	<boolean>	the status of this task to trigger alert event	1 and onward

Example:


```
{
  "data" : {
    "task": [{
        "analyze_type": 6,
        "area_grid":
    "1111111111111111111111111111111111111111111111111111111111111111111111111111111111
    1111111111111111111111111111111111111111111111111111111111111111111111111111111111
    1111111111111111111111111111111111111111111111111111111111111111111111111111111111
    1111111111111111111111111111111111111111111111111111111111111111111111111111111111
    1111111111111111111111111111111111111111111111111111111111111111111111111111111111
    1111111111111111111111111111111111111111111111111111111111111111111111111111111111
    1111111111111111111111111111111111111111111111111111111111111111111111111111111111
    1111111111111111111111111111111111111111111111111111111111111111111111111111111111
    1111111111111111111111111111111111111111111111111111111111111111111111111111111111
    1111111111111111111111111111111111111111111111111111111111111111111111111111111111
    1111111111111111111111111111111111111111111111111111111111111111111111111111111111
    1111111111111111111111111111111111111111111111111111111111111111111111111111111111
    1111111111111111111111111111111111111111111111111111111111111111111111111111111111
    1111111111111111111111111111111111111111111111111111111111111111111111111111111111
    1111111111111111111111111111111111111111111111111111111111111111111111111111111111
    1111111111111111111111111111111111111111111111111111111111111111111111111111111111
    1111111111111111111111111111111111111111111111111111111111111111111111111111111111
    1111111111111111111111111111111111111111",
        "area_line": "0.25,0.5,0.5,0.5,0.75,0.5",
```


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"area_region": "0.25,0.3333,0.25,0.6666,0.5,0.8333,0.75,0.6666,0.75,0.3333,0.5,0.1666",
"camera_id": 21,
"camera_name": "使用者自訂1",
"day_night_filter_mode": 0,
"day_night_filter_time": 10,
"deleted": false,
"det_fg_obj": 0,
"det_region":
"0.1,0.1,0.1,0.9,0.9,0.9,0.9,0.1;0.2,0.2,0.2,0.8,0.8,0.8,0.8,0.2;0.3,0.3,0.3,0.7,0.7,0.7,0.7,0.3",
"det_region_cnt": 1,
"disable_detection": false,
"enable": true,
"enable_min_duration": false,
"enable_recording": true,
"enable_schedule": true,
"enable_tampering": true,
"enable_tampering_2": true,
"enter_night_hour": 18,
"enter_night_min": 0,
"event_integration": true,
"fence_dir_flag": 3,
"fence_line": "0.3,0.6,0.5,0.5,0.7,0.6",
"id": 10,
"id_on_rec_server": 4,
"ignore_bg_event": 0,
"ignore_bg_event_2": 0,
"ignore_bg_obj": 0,
"ignore_bg_obj_2": 0,
"leave_night_hour": 6,
"leave_night_min": 0,
"min_duration": 10,
"min_obj_size": 0.2000000029802322,
"min_obj_size_2": 0.2000000029802322,
"min_obj_size_option": 1,
"min_obj_size_option_2": 1,

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```
        "name": "123",
        "owner_app": 0,
        "owner_ds_id": 2,
        "people_cnt": 0,
        "people_display_info": 162,
        "people_display_pos": 0,
        "people_enable_stay_max": false,
        "people_enter": 0,
        "people_exit": 2,
        "people_hint_pos": "0.446,0.5622,0.5419,0.2216",
        "people_mode": 0,
        "people_region": "0.0913,0.4676,0.9559,0.527,0.957,0.3758,0.0928,0.3081",
        "people_size": 0,
        "people_stay_max": 100,
        "post_rec_time": 5,
        "pre_rec_time": 5,
        "region_type": 0,
        "reset_cnt_frequency": 1,
        "reset_date": 1,
        "reset_time_hour": 0,
        "reset_time_minute": 0,
        "reset_weekday": 0,
        "schedule":
    "111111111111111111111111111111111111111111111111111111111111111111111111111111111111
    111111111111111111111111111111111111111111111111111111111111111111111111111111111111
    111111111111111111111111111111111111111111111111111111111111111111111111111111111111
    111111111111111111111111111111111111111111111111111111111111111111111111111111111111
    11111",
        "scheduleOn": true,
        "sensitivity": 1,
        "sensitivity_2": 1,
        "sensitivity_custom_value": 5,
        "sensitivity_custom_value_2": 5,
        "smart_tag_categ": 0,
        "status_flags": 0,
```


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```
            "stream_profile": 1,
            "sync_to_host": false,
            "trans_flags": 0,
            "trigger_alert": 0
        }],
    total: 1
  },
  success: true
}
```

2.3.53.2 SaveTask

Create of edit DVA Task

Request

Key	Value	Description	Availability
analyze_type	<integer>	the type of this DVA task ● 2 - DVA_NON_IDLE_ZONE ● 6 - DVA_PEOPLE_COUNTING_CEILING_MOUNT ● 8 - DVA_VIRTUAL_FENCE	1 and onward
actFromHost	<boolean>	the relayed flag of cms webapi. It should be true when calling by cms recording server,	1 and onward
name	<string>	name of this DVA task	1 and onward
camera_id	<integer>	the camera id of this DVA task	1 and onward
enable	<boolean>	the status of this task to start processing	1 and onward
enable_recording	<boolean>	the status to record the video of detected result	1 and onward
pre_rec_time	<integer>	the seconds to clip the record before detection	1 and onward
post_rec_time	<integer>	the seconds to clip the record after detection	1 and onward
event_integration	<boolean>	the status to integrate motion detected event with surveillance station	1 and onward
region_type	<integer>	the status of region type ● 0 - Include region ● 1 - Exclude region	1 and onward
det_region_cnt	<integer>	the number of detected region	1 and onward
det_region	<string>	the vertexes of detected region of detection task, concatenated by ","	1 and onward
people_mode	<integer>	the status of counting mode for people counting task ● 0 - counting for both enter and leave people	1 and onward

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		● 1 - counting for only enter people ● 2 - counting for only leave people	
reset_cnt_frequency	<integer>	the type of reset people count frequency. ● 1 - reset people count by days ● 2 - reset people count by weeks ● 3 - reset people count by months ● 4 - reset people count by years	1 and onward
reset_weekday	<integer>	the weekday to reset count	1 and onward
reset_date	<integer>	the date of the month to reset count	1 and onward
reset_time_minute	<integer>	the minutes of the hour in the day to reset count	1 and onward
reset_time_hour	<integer>	the hours of the day to reset count	1 and onward
fence_dir_flag	<integer>	the status of detection direction of virtual fence task. ● 1 - detect one direction of the fence ● 2 - the other direction of the fence ● 3 - the both 2 directions of the fence	1 and onward
people_display_pos	<integer>	the status of position of people counting displayed result on task preview. ● 0 - top right ● 1 - bottom right ● 2 - top left ● 3 - bottom left	1 and onward
stream_profile	<integer>	the status of camera stream level ● 0 - level high ● 1 - level medium ● 2 - level low	1 and onward
people_enable_stay_max	<boolean>	the status of to limit the stay count or not	1 and onward
intrusion_detect_target	<integer>	the status of the detected type of intrusion detection. ● 1 - detect all object ● 2 - detect specific object	1 and onward
det_fg_obj	<integer>	the bitmap of status of detected object for detecting specific object. ● 1 - detect people ● 2 - detect vehicle	1 and onward
min_obj_size	<double>	the minimum limitation of object size of detection.	1 and onward
min_obj_size_option	<integer>	the status to limit the object size of detection. ● 0 - disable limitation ● 1 - enable limitation	1 and onward
enable_min_duration	<boolean>	the status of the shortest limitation of object staying in the detected region.	1 and onward
min_duration	<integer>	the seconds of the shortest limitation of object staying in the detected region.	1 and onward
people_display_info	<integer>	The bitmap of the display info. ● 1 - DISPLAY_ANNOTATION ● 2 - DISPLAY_HINT_WHEN_PASS	1 and onward

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		● 4 - DISPLAY_REGION ● 8 - DISPLAY_BORDER ● 16 - DISPLAY_LINE ● 32 - DISPLAY_PEOPLE_COUNT_LIVE ● 64 - DISPLAY_PEOPLE_COUNT_REC ● 128 - DISPLAY_PEOPLE_STAY ● 324 DISPLAY_PEOPLE_GROUP_COUNT ● 512 - DISPLAY_PEOPLE_GROUP_STAY	
people_enter	<integer>	the array index of people entering it could be changed with people_exit to swap counting result.	1 and onward
people_stay_max	<integer>	the limit number of people stayed. Only work when people_enable_stay_max is true.	1 and onward
people_exit	<integer>	the array index of people exiting it could be changed with people_enter to swap counting result.	1 and onward
people_region	<string>	the vertexes of detected region of people counting task, concatenated by ","	1 and onward
people_hint_pos	<string>	the vertexes of people direction of people counting task, concatenated by ","	1 and onward
blEditMode	<boolean>	the status of task to be edited or not	1 and onward

Example:

```
GET /webapi/entry.cgi?
id=6&name="TaskName"&camera_id=2&owner_ds_id=0&id_on_rec_server=0&deleted=false&owner_app
=0&event_integration=true&enable_recording=true&status_flags=0&stream_profile=1&analyze_type=8&e
vent_type=0&sensitivity=1&sensitivity_2=1&sensitivity_custom_value=5&sensitivity_custom_value_2=5&e
nable_min_duration=false&min_duration="10"&min_obj_size="0.2000000029802322"&min_obj_size_opti
on=0&min_obj_size_2="0.2000000029802322"&min_obj_size_option_2=1&people_mode=0&people_enab
le_stay_max=false&people_stay_max="100"&people_display_info=17&people_display_pos=0&people_size
=0&people_cnt=0&people_enter=0&people_exit=2&people_region="0.45,0.3,0.45,0.7,0.55,0.7,0.55,0.3"&
people_hint_pos="0.3442,0.3652,0.5788,0.57"&region_type=0&reset_cnt_frequency=1&reset_weekday=0
&reset_date=1&reset_time_hour=0&reset_time_minute=0&enable_schedule=true&ignore_bg_event=0&i
gnore_bg_obj=0&ignore_bg_event_2=0&ignore_bg_obj_2=0&det_fg_obj=0&det_region_cnt=1&det_regio
n="0.1,0.1,0.1,0.9,0.9,0.9,0.9,0.1;0.2,0.2,0.2,0.8,0.8,0.8,0.8,0.20.3,0.3,0.3,0.7,0.7,0.7,0.7,0.3"&schedule="1
111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111"&area_reg
ion="0.25,0.3333,0.25,0.6666,0.5,0.8333,0.75,0.6666,0.75,0.3333,0.5,0.1666"&area_line="0.25,0.5,0.5,0.5,
0.75,0.5"&area_grid="111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111
```

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1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
11111111111111"&task_argument=""&fence_line="0.1644,0.6345,0.5008,0.8475,0.7002,0.6009"&fence_dir_flag=3&pre_rec_time=5&post_rec_time=5&enable_tampering=true&enable_tampering_2=true&day_night_filter_mode=0&leave_night_hour=6&leave_night_min=0&enter_night_hour=18&enter_night_min=0&day_night_filter_time=10&smart_tag_categ=7&groupName=""&groupId=0&isGroupEnabled=false&scheduleOn=true&camera_name="User Defined"&det_region_mode=1&enable_min_duration_2=false&min_duration_2="10"&det_fg_obj_2=0&blEditMode=true&api=SYNO.SurveillanceStation.IVA&method=SaveTask&version=1

Response

Key	Value	Description	Availability
data	<Task>	information of DVA task	1 and onward
success	<boolean>	Execution success or not	1 and onward

<Task> Definitions:

Key	Value	Description	Availability
analyze_type	<string>	Paired camea name	1 and onward
area_grid	<boolean>	The deleted status of this task	1 and onward
area_line	<boolean>	The enabled status of this task	1 and onward
area_region	<integer>	The id of this task	1 and onward
camera_id	<string>	The name of this task	1 and onward
camera_name	<integer>	The event count of this task today	1 and onward
deleted	<boolean>	the status of this task to be deleted or not	1 and onward
det_fg_obj	<integer>	the bitmap of status of detected object for detecting specific object. ● 1 - detect people ● 2 - detect vehicle	1 and onward
det_region	<string>	the vertexes of detected region of detection task, concatenated by ","	1 and onward
det_region_cnt	<integer>	the number of detected region	1 and onward
enable	<boolean>	the status of this task to start processing	1 and onward
enable_min_duration	<boolean>	the status of the shortest limitation of object staying in the detected region.	1 and onward
enable_recording	<boolean>	the status to record the video of detected result	1 and onward
enable_schedule	<boolean>	the status to enable the schedule of this task	1 and onward
event_integration	<boolean>	the status to integrate motion detected event with surveillance station	1 and onward
fence_dir_flag	<integer>	the status of detection direction of virtual fence task. ● 1 - detect one direction of the fence ● 2 - the other direction of the fence	1 and onward

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		● 3 - the both 2 directions of the fence	
fence_line	<string>	the vertexes of virtual fence of intrusion detection task, concatenated by ","	1 and onward
id	<integer>	the id of this DVA task	1 and onward
id_on_rec_server	<integer>	the id of this DVA task on recording server. it is only work on cms host.	1 and onward
min_duration	<integer>	the seconds of the shortest limitation of object staying in the detected region.	1 and onward
min_obj_size	<double>	the minimum limitation of object size of detection.	1 and onward
min_obj_size_option	<integer>	the status to limit the object size of detection. ● 0 - disable limitation ● 1 - enable limitation	1 and onward
name	<string>	the name of this DVA task	1 and onward
owner_ds_id	<integer>	The DS id of which DS the recording belongs 0: Local Host > 0: The id of recording server	1 and onward
people_display_info	<integer>	The bitmap of the display info. ● 1 - DISPLAY_ANNOTATION ● 2 - DISPLAY_HINT_WHEN_PASS ● 4 - DISPLAY_REGION ● 8 - DISPLAY_BORDER ● 16 - DISPLAY_LINE ● 32 - DISPLAY_PEOPLE_COUNT_LIVE ● 64 - DISPLAY_PEOPLE_COUNT_REC ● 128 - DISPLAY_PEOPLE_STAY ● 324 DISPLAY_PEOPLE_GROUP_COUNT ● 512 - DISPLAY_PEOPLE_GROUP_STAY	1 and onward
people_display_pos	<integer>	the status of position of people counting displayed result on task preview. ● 0 - top right ● 1 - bottom right ● 2 - top left ● 3 - bottom left	1 and onward
people_enable_stay_max	<boolean>	the status of to limit the stay count or not	1 and onward
people_enter	<integer>	the array index of people entering it could be changed with people_exit to swap counting result.	1 and onward
people_exit	<integer>	the array index of people exiting it could be changed with people_enter to swap counting result.	1 and onward
people_hint_pos	<string>	the vertexes of people direction of people counting task, concatenated by ","	1 and onward
people_mode	<integer>	the status of counting mode for people counting task ● 0 - counting for both enter and leave people ● 1 - counting for only enter people ● 2 - counting for only leave people	1 and onward
det_region	<string>	the vertexes of detected region of detection	1 and onward

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		task, concatenated by ","	
people_stay_max	<integer>	the limit number of people stayed. Only work when people_enable_stay_max is true.	1 and onward
post_rec_time	<integer>	the seconds to clip the record after detection	1 and onward
pre_rec_time	<integer>	the seconds to clip the record before detection	1 and onward
region_type	<integer>	the status of region type ● 0 - Include region ● 1 - Exclude region	1 and onward
reset_cnt_frequency	<integer>	the type of reset people count frequency. ● 1 - reset people count by days ● 2 - reset people count by weeks ● 3 - reset people count by months ● 4 - reset people count by years	1 and onward
reset_weekday	<integer>	the weekday to reset count	1 and onward
reset_date	<integer>	the date of the month to reset count	1 and onward
reset_time_minute	<integer>	the minutes of the hour in the day to reset count	1 and onward
reset_time_hour	<integer>	the hours of the day to reset count	1 and onward
schedule	<string>	the bitmap of hours in a week to process task.	1 and onward
scheduleOn	<boolean>	the status to enable the schedule of this task	1 and onward
status_flags	<integer>	the bitmap of task status. ● 0 - DEV_STATUS_FLAG_NONE ● 1 - DEV_STATUS_FLAG_UNRECOGNIZED ● 2 - DEV_STATUS_FLAG_DISABLING ● 4 -DEV_STATUS_FLAG_ENABLING ● 8 -DEV_STATUS_FLAG_RESTARTING ● 16 -DEV_STATUS_FLAG_DELETING ● 32 -DEV_STATUS_FLAG_CONFIGURING ● 64 -DEV_STATUS_FLAG_HW_RESTARTING ● 128 -DEV_STATUS_FLAG_UNSTABLE	1 and onward
stream_profile	<integer>	the status of camera stream level ● 0 - level high ● 1 - level medium ● 2 - level low	1 and onward
sync_to_host	<boolean>	the status of this task to sync people counting result to cms host	1 and onward
trans_flags	<integer>	the bitmap of transient status of this task ● 0 -DVA_TRANS_FLAG_NORMAL ● 1 -DVA_TRANS_FLAG_CAM_FPS ● 2 - DVA_TRANS_FLAG_FETCH_FPS ● 4 -DVA_TRANS_FLAG_SIMULATING	1 and onward
trigger_alert	<boolean>	the status of this task to trigger alert event	1 and onward

Example:

```
{
```

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```
{
  "data": {
    "analyze_type": 6,
    "area_grid":
"1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111",
    "area_line": "0.25,0.5,0.5,0.5,0.75,0.5",
    "area_region": "0.25,0.3333,0.25,0.6666,0.5,0.8333,0.75,0.6666,0.75,0.3333,0.5,0.1666",
    "camera_id": 21,
    "camera_name": "使用者自訂1",
    "day_night_filter_mode": 0,
    "day_night_filter_time": 10,
    "deleted": false,
    "det_fg_obj": 0,
    "det_region":
"0.1,0.1,0.1,0.9,0.9,0.9,0.9,0.1;0.2,0.2,0.2,0.8,0.8,0.8,0.8,0.2;0.3,0.3,0.3,0.7,0.7,0.7,0.7,0.3",
    "det_region_cnt": 1,
    "disable_detection": false,
    "enable": true,
    "enable_min_duration": false,
    "enable_recording": true,
```


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"enable_schedule": true,
"enable_tampering": true,
"enable_tampering_2": true,
"enter_night_hour": 18,
"enter_night_min": 0,
"event_integration": true,
"fence_dir_flag": 3,
"fence_line": "0.3,0.6,0.5,0.5,0.7,0.6",
"id": 10,
"id_on_rec_server": 4,
"ignore_bg_event": 0,
"ignore_bg_event_2": 0,
"ignore_bg_obj": 0,
"ignore_bg_obj_2": 0,
"leave_night_hour": 6,
"leave_night_min": 0,
"min_duration": 10,
"min_obj_size": 0.2000000029802322,
"min_obj_size_2": 0.2000000029802322,
"min_obj_size_option": 1,
"min_obj_size_option_2": 1,
"name": "123",
"owner_app": 0,
"owner_ds_id": 2,
"people_cnt": 0,
"people_display_info": 162,
"people_display_pos": 0,
"people_enable_stay_max": false,
"people_enter": 0,
"people_exit": 2,
"people_hint_pos": "0.446,0.5622,0.5419,0.2216",
"people_mode": 0,
"people_region": "0.0913,0.4676,0.9559,0.527,0.957,0.3758,0.0928,0.3081",
"people_size": 0,
"people_stay_max": 100,

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```
        "post_rec_time": 5,
        "pre_rec_time": 5,
        "region_type": 0,
        "reset_cnt_frequency": 1,
        "reset_date": 1,
        "reset_time_hour": 0,
        "reset_time_minute": 0,
        "reset_weekday": 0,
        "schedule":
"111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111",
        "scheduleOn": true,
        "sensitivity": 1,
        "sensitivity_2": 1,
        "sensitivity_custom_value": 5,
        "sensitivity_custom_value_2": 5,
        "smart_tag_categ": 0,
        "status_flags": 0,
        "stream_profile": 1,
        "sync_to_host": false,
        "trans_flags": 0,
        "trigger_alert": 0
    },
    "success": true
}
```


2.3.53.3 DeleteTask

Delete DVA tasks

Request

Key	Value	Description	Availability
ids	<string>	The list of <TASK_ID> to be deleted,	1 and onward

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		concatenated by “,”.	

Example:

```
GET /webapi/entry.cgi?
ids="1"&keepRecording=false&api=SYNO.SurveillanceStation.IVA&method=DeleteTask&version=1
```

Response

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

Example:

```
{
    success: true
}
```

2.3.53.4 EnableTask

Enable DVA tasks

Request

Key	Value	Description	Availability
ids	<string>	The list of <TASK_ID> to be enabled, concatenated by “,”.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.IVA"&version="1"&method="EnableTask"&&ids="1,2,3"
```

Response

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

Example:

```
{
    success: true
}
```

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2.3.53.5 DisableTask

Disable DVA tasks

Request

Key	Value	Description	Availability
ids	<string>	The list of <TASK_ID> to be disabled, concatenated by “,”.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.IVA"&version="1"&method="DisableTask"&&ids="1,2,3"
```

Response

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

Example:

```
{
    success: true
}
```

2.3.53.6 ResetPplCntCounter

Reset the counter of people counting task

Request

Key	Value	Description	Availability
taskId	<int>	The id of the task to be reseted.	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.IVA"&version="1"&method="ResetPplCntCounter"&&taskId=1
```

Response

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

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Example:

```
{
    success: true
}
```

2.3.53.7 API Error Code

Code	Description
400	Operation Failed.
401	Illegal parameters.
543	The number of DVA tasks and face tasks exceed the limitation
548	The input video type of the DVA task is invalid

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2.3.54 SYNO.SurveillanceStation.IVA.Report

This API provides methods to query people counting result.

Name	Version	Availability
SYNO.SurveillanceStation.IVA.Report	1	Surveillance Station 8.2.6

Method Name	Section	Availability
GetCount	2.3.54.1	1 and onward
GetReport	2.3.54.2	1 and onward

2.3.54.1 GetCount

Get people counting enter and leave count.

Request

Key	Value	Description	Availability
ids	<string>	Task ids	1 and onward
timeStart	<string>	Start time in the format “YYYY-MM-DD:HH”	1 and onward
timeEnd	<string>	End time in the format “YYYY-MM-DD:HH”	1 and onward
timezone	<integer>	Offset of the time zone	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.IVA.Report"&version="1"&method="GetCount"&ids="1,4"&timeStart="201
9-11-5:10"&timeEnd="2019-11-6:12"&timezone=480
```

Response

Key	Value	Description	Availability
data	<report>	Information of youtube live	1 and onward
success	<boolean>	Execution success or not	1 and onward

<report> Definitions:

Key	Value	Description	Availability
enter	<integer>	People enter count	1 and onward
exit	<integer>	People exit count	1 and onward

Example:

```
{
    "data":{
        "report":{
```

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```
            "enter":145,
            "exit":87
        }
    },
    "success":true
}
```

2.3.54.2 GetReport

Get people counting counts of a day

Request

Key	Value	Description	Availability
ids	<string>	Task ids, concatenated by “,”.	1 and onward
interval	<int>	The time interval of the report to get ● 1 - one day ● 2 - 1 week ● 3 - 1 month ● 4 - 1 year	1 and onward
intervalUnit	<int>	the time interval unit of horizontal axis of the report to get ● 0 - DVA_ONE_HOUR ● 1 - DVA_FOUR_HOUR ● 2 - DVA_EIGHT_HOUR ● 3 - DVA_ONE_DAY ● 4 - DVA_ONE_WEEK ● 5 - DVA_ONE_MONTH ● 6 - DVA_ONE_SEASON	1 and onward
timezone	<integer>	Offset of the time zone	1 and onward
timestamp	<integer>	Offset of the time stamp to get the report	1 and onward
blOccupancy	<boolean>	The status of this webapi to count stayed people	1 and onward

Example:

```
GET /webapi/entry.cgi?
ids="2,3,4"&interval=1&intervalUnit=0&timestamp=1622505600&blOccupancy=true&timezone=480&api=
SYNO.SurveillanceStation.IVA.Report&method=GetReport&version=1
```

Response

Key	Value	Description	Availability
data	<Report List Object>	Information of report list	1 and onward
success	<boolean>	Execution success or not	1 and onward

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<Report List Object> Definitions:

Key	Value	Description	Availability
report	array of <report>	The list of report information	1 and onward
total	<integer>	The total number of report	1 and onward

<Report List Object> Definitions:

Key	Value	Description	Availability
count0	<integer>	The number of people counting array at index 0	1 and onward
count1	<integer>	The number of people counting array at index 1	1 and onward
count2	<integer>	The number of people counting array at index 2	1 and onward
id	<integer>	The index of this report	1 and onward
time	<string>	The time of this report in thestring format	1 and onward

Example:


```
{
    "data": {
        "report": [
            {
                "count0": 834,
                "count1": 1508,
                "count2": 0,
                "id": 0,
                "time": "00:00"
            },
            {
                "count0": 846,
                "count1": 1511,
                "count2": 0,
                "id": 1,
                "time": "01:00"
            }
        ],
        "total": 2
    },
    "success": true
```


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```
}
```

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2.3.55 SYNO.SurveillanceStation.IVA.Recording

Get the information of the recording file of detection results

Name	Version	Availability
SYNO.SurveillanceStation.IVA.Recording	1	Surveillance Station 8.2.6

Method Name	Section	Availability
List	2.3.55.1	1 and onward
Delete	2.3.55.2	1 and onward
GetAnalyticsResult	2.3.55.3	1 and onward
Lock	2.3.55.4	1 and onward
Unlock	2.3.55.5	1 and onward

2.3.55.1 List

Reset the counter of people counting task

Request

Key	Value	Description	Availability
taskIdList	<string>	Task ids, concatenated by “,”.	1 and onward
limit	<integer>	Max amount of recording list returned	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.IVA.Recording"&version="1"&method="List"&taskIdList="1,5,9"&limit=1
```

Response

Key	Value	Description	Availability
data	<DVA Event>	Information of Deep Video Analytics recording	1 and onward
success	<boolean>	Execution success or not	1 and onward

<DVA Event> Definitions:

Key	Value	Description	Availability
data	<DVA Event>	Information of Deep Video Analytics recording	1 and onward
analyze_type	<integer>	The analyze type of DVA Task	1 and onward
id	<integer>	The id of the recording	1 and onward
video_type	<integer>	The video codec of the recording. 0 - Unknown 1 - MJPEG 2 - MPEG4 3 - H264 5 - MXPEG 6 - H265	1 and onward

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		7 - H264+	
audio_format	<integer>	The audio codec of the recording. 0 - Unknown 1 - PCM 2 - G711 3 - G726 4 - AAC 5 - AMR 6 - UserDefine (use only with user define camera)	1 and onward
imgHeight	<integer>	The image height of the recording.	1 and onward
imgWidth	<integer>	The image width of the recording.	1 and onward
cameraId	<integer>	The belonged camera id of the recording.	1 and onward
camIdOnRecServer	<integer>	The belonged camera id of the recording on recording server. 0 if it's not CMS host server.	1 and onward
event_size_bytes	<integer>	The size of the recording.	1 and onward
path	<string>	The file path of the recording.	1 and onward
deleted	<boolean>	The recording is deleted or not.	1 and onward
dsId	<integer>	The DS id of which DS the recording belongs 0: Local Host > 0: The id of recording server	1 and onward
folder	<string>	The path of the folder contains this recording	1 and onward

Example:


```
{
  "data" : {
    "events" : [
      {
        "analyze_type" : 8,
        "archId" : 0,
        "archived" : false,
        "audio_format" : "",
        "camIdOnRecServer" : 0,
        "cameraId" : 1,
        "cause" : 0,
        "closing" : false,
        "comment" : "",
        "commentOnHost" : "",
        "confidence" : 0,
        "customLabel" : 0,
```


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```
        "customLabelOnHost" : 0,
        "deleted" : false,
        "dsId" : 0,
        "event_size_bytes" : 80740352,
        "fisheye_origin_view" : true,
        "folder" : "/volume1/surveillance/@VideoAnalytics/123123",
        "for_rotation_only" : false,
        "frameCount" : 3096,
        "id" : 62423,
        "idOnRecServer" : 0,
        "imgHeight" : 720,
        "imgWidth" : 1280,
        "markAsDel" : false,
        "mountId" : 0,
        "path" : "20210524PM/ppl-20210524-163419-1621845259.mp4",
        "reason" : 0,
        "recording" : true,
        "startTime" : 1621845259,
        "status_flags" : 0,
        "stopTime" : 1621845414,
        "systemLabel" : 0,
        "systemLabelAttr" : {
          "16" : "0.00"
        },
        "taskId" : 5,
        "taskName" : "123123",
        "task_argument" :
"{\"det_fg_obj\":0,\"det_region_cnt\":1,\"enable_min_duration\":false,\"enable_tampering\":true,\"ignore_bg_event\":0,\"ignore_bg_event_2\":0,\"ignore_bg_obj\":0,\"ignore_bg_obj_2\":0,\"min_duration\":10,\"min_obj_size\":0.2000000029802322,\"min_obj_size_2\":0.2000000029802322,\"min_obj_size_option\":1,\"min_obj_size_option_2\":1,\"people_enable_stay_max\":false,\"people_stay_max\":100,\"sensitivity\":1,\"sensitivity_2\":1}",
        "uniqueId" : "0_62423",
        "update_time" : 0,
        "video_type" : 3
```


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```
        }
      ],
      "total" : 879
    },
    "httpd_restart" : false,
    "success" : true
}
```

2.3.55.2 Delete

Delete the recording file of detection results

Request

Key	Value	Description	Availability
slaveDsParam	<json>	Parameter of filter to delete recording on ds {“5“:{“idList“: “1,2,3“}} ● the key “5“ is ds id. ● the value of “idList” is recording id on ds[5].	1 and onward
deleteMethod	<integer>	Method to delete recording ● 0 - delete recording with filter ● 1 - delete all recording	1 and onward

Example:

```
GET /webapi/entry.cgi?deleteMethod=0&slaveDsParam={"2":
{"idList":"1"}}&api=SYNO.SurveillanceStation.IVA.Recording&method=Delete&version=1
```

Response

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

Example:

```
{
    success: true
}
```

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2.3.55.3 GetAnalyticsResult

Get the information of both the task and frame result of the recording file

Request

Key	Value	Description	Availability
eventId	<integer>	The id of the recording	1 and onward
taskId	<integer>	The task id of the recording	1 and onward
blAlertEvt	<boolean>	The event type of the recording ● true - alert event ● false - iva event	1 and onward

Example:

```
GET /webapi/entry.cgi?
eventId=44&taskId=1&blAlertEvt=false&api=SYNO.SurveillanceStation.IVA.Recording&method=GetAnalyticsResult&version=1
```

Response

Key	Value	Description	Availability
data	<Analytic Result>	the analytic result of the recording	1 and onward
success	<boolean>	Execution success or not	1 and onward

<Analytic Result> Definitions:

Key	Value	Description	Availability
ivaResult	Array of <Frame Result>	List of the frame result of the recording	1 and onward
setting	<Task>	Execution success or not	1 and onward

<Frame Result> Definitions:

Key	Value	Description	Availability
frameId	<integer>	the id of the frame result	1 and onward
instances	Array of <Bounding Box>	list of bounding box info	1 and onward
is_trigger	<boolean>	the status for any bbox trigger the detection.	1 and onward
timestamp	<integer>	the timestamp of the frame result	1 and onward

<Bounding Box> Definitions:

Key	Value	Description	Availability
bottom_right	<Vertex>	the bottom right vertex of bounding box	1 and onward
top_left	<Vertex>	the top left of bounding box	1 and onward

<Vertex> Definitions:

Key	Value	Description	Availability
x	<double>	the coordinate value of vertex on x axis	1 and onward

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y	<double>	the coordinate value of vertex on y axis	1 and onward

<Task> Definitions:

Key	Value	Description	Availability
analyze_type	<string>	Paired camea name	1 and onward
area_grid	<boolean>	The deleted status of this task	1 and onward
area_line	<boolean>	The enabled status of this task	1 and onward
area_region	<integer>	The id of this task	1 and onward
camera_id	<string>	The name of this task	1 and onward
camera_name	<integer>	The event count of this task today	1 and onward
deleted	<boolean>	the status of this task to be deleted or not	1 and onward
det_fg_obj	<integer>	the bitmap of status of detected object for detecting specific object. ● 1 - detect people ● 2 - detect vehicle	1 and onward
det_region	<string>	the vertexes of detected region of detection task, concatenated by ","	1 and onward
det_region_cnt	<integer>	the number of detected region	1 and onward
enable	<boolean>	the status of this task to start processing	1 and onward
enable_min_duration	<boolean>	the status of the shortest limitation of object staying in the detected region.	1 and onward
enable_recording	<boolean>	the status to record the video of detected result	1 and onward
enable_schedule	<boolean>	the status to enable the schedule of this task	1 and onward
event_integration	<boolean>	the status to integrate motion detected event with surveillance station	1 and onward
fence_dir_flag	<integer>	the status of detection direction of virtual fence task. ● 1 - detect one direction of the fence ● 2 - the other direction of the fence ● 3 - the both 2 directions of the fence	1 and onward
fence_line	<string>	the vertexes of virtual fence of intrusion detection task, concatenated by ","	1 and onward
id	<integer>	the id of this DVA task	1 and onward
id_on_rec_server	<integer>	the id of this DVA task on recording server. it is only work on cms host.	1 and onward
min_duration	<integer>	the seconds of the shortest limitation of object staying in the detected region.	1 and onward
min_obj_size	<double>	the minimum limitation of object size of detection.	1 and onward
min_obj_size_option	<integer>	the status to limit the object size of detection. ● 0 - disable limitation ● 1 - enable limitation	1 and onward
name	<string>	the name of this DVA task	1 and onward
owner_ds_id	<integer>	The DS id of which DS the recording belongs 0: Local Host > 0: The id of recording server	1 and onward
people_display	<integer>	The bitmap of the display info.	1 and onward

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_info		● 1 - DISPLAY_ANNOTATION ● 2 - DISPLAY_HINT_WHEN_PASS ● 4 - DISPLAY_REGION ● 8 - DISPLAY_BORDER ● 16 - DISPLAY_LINE ● 32 - DISPLAY_PEOPLE_COUNT_LIVE ● 64 - DISPLAY_PEOPLE_COUNT_REC ● 128 - DISPLAY_PEOPLE_STAY ● 324 DISPLAY_PEOPLE_GROUP_COUNT ● 512 - DISPLAY_PEOPLE_GROUP_STAY	
people_display_pos	<integer>	the status of position of people counting displayed result on task preview. ● 0 - top right ● 1 - bottom right ● 2 - top left ● 3 - bottom left	1 and onward
people_enable_stay_max	<boolean>	the status of to limit the stay count or not	1 and onward
people_enter	<integer>	the array index of people entering it could be changed with people_exit to swap counting result.	1 and onward
people_exit	<integer>	the array index of people exiting it could be changed with people_enter to swap counting result.	1 and onward
people_hint_pos	<string>	the vertexes of people direction of people counting task, concatenated by ","	1 and onward
people_mode	<integer>	the status of counting mode for people counting task ● 0 - counting for both enter and leave people ● 1 - counting for only enter people ● 2 - counting for only leave people	1 and onward
det_region	<string>	the vertexes of detected region of detection task, concatenated by ","	1 and onward
people_stay_max	<integer>	the limit number of people stayed. Only work when people_enable_stay_max is true.	1 and onward
post_rec_time	<integer>	the seconds to clip the record after detection	1 and onward
pre_rec_time	<integer>	the seconds to clip the record before detection	1 and onward
region_type	<integer>	the status of region type ● 0 - Include region ● 1 - Exclude region	1 and onward
reset_cnt_frequency	<integer>	the type of reset people count frequency. ● 1 - reset people count by days ● 2 - reset people count by weeks ● 3 - reset people count by months ● 4 - reset people count by years	1 and onward
reset_weekday	<integer>	the weekday to reset count	1 and onward
reset_date	<integer>	the date of the month to reset count	1 and onward

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reset_time_minute	<integer>	the minutes of the hour in the day to reset count	1 and onward
reset_time_hour	<integer>	the hours of the day to reset count	1 and onward
schedule	<string>	the bitmap of hours in a week to process task.	1 and onward
scheduleOn	<boolean>	the status to enable the schedule of this task	1 and onward
status_flags	<integer>	the bitmap of task status. ● 0 - DEV_STATUS_FLAG_NONE ● 1 - DEV_STATUS_FLAG_UNRECOGNIZED ● 2 - DEV_STATUS_FLAG_DISABLING ● 4 -DEV_STATUS_FLAG_ENABLING ● 8 -DEV_STATUS_FLAG_RESTARTING ● 16 -DEV_STATUS_FLAG_DELETING ● 32 -DEV_STATUS_FLAG_CONFIGURING ● 64 -DEV_STATUS_FLAG_HW_RESTARTING ● 128 -DEV_STATUS_FLAG_UNSTABLE	1 and onward
stream_profile	<integer>	the status of camera stream level ● 0 - level high ● 1 - level medium ● 2 - level low	1 and onward
sync_to_host	<boolean>	the status of this task to sync people counting result to cms host	1 and onward
trans_flags	<integer>	the bitmap of transient status of this task ● 0 -DVA_TRANS_FLAG_NORMAL ● 1 -DVA_TRANS_FLAG_CAM_FPS ● 2 - DVA_TRANS_FLAG_FETCH_FPS ● 4 -DVA_TRANS_FLAG_SIMULATING	1 and onward
trigger_alert	<boolean>	the status of this task to trigger alert event	1 and onward

Example:


```
{
    "data": {
        "ivaResult": [
            {
                "frameId": -467,
                "instances": [],
                "is_trigger": false,
                "timestamp": 1622430052006,
                "version": 2
            },
            {
```


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```
            "frameId": 5366,
            "instances": [
                {
                    "bbox": {
                        "bottom_right": {
                            "x": 0.4741650223731995,
                            "y": 0.8076961636543274
                        },
                        "top_left": {
                            "x": 0.4291196763515472,
                            "y": 0.5039811134338379
                        }
                    },
                    "class_id": "PEOPLE",
                    "is_trigger": true,
                    "tracking_id": 1248
                }
            ],
            "is_trigger": true,
            "timestamp": 1622430057839,
            "version": 2
        },
        … # lots of frame results here
    ],
    "setting": {
        "analyze_type": 2,
        "area_grid":
"1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
```

1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
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1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111",

"area_line": "0.25,0.5,0.5,0.5,0.75,0.5",

"area_region": "0.25,0.3333,0.25,0.6666,0.5,0.8333,0.75,0.6666,0.75,0.3333,0.5,0.1666",

"camera_id": 2,

"day_night_filter_mode": 0,

"day_night_filter_time": 10,

"deleted": false,

"det_fg_obj": 3,

"det_region":
"0.1,0.1,0.1,0.9,0.9,0.9,0.9,0.1;0.2,0.2,0.2,0.8,0.8,0.8,0.8,0.2;0.3,0.3,0.3,0.7,0.7,0.7,0.7,0.3",

"det_region_cnt": 1,

"disable_detection": false,

"enable": true,

"enable_min_duration": false,

"enable_recording": true,

"enable_schedule": true,

"enable_tampering": true,

"enable_tampering_2": true,

"enter_night_hour": 18,

"enter_night_min": 0,

"event_integration": true,

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"fence_dir_flag": 3,

"fence_line": "0.3,0.6,0.5,0.5,0.7,0.6",

"id": 1,

"id_on_rec_server": 0,

"ignore_bg_event": 0,

"ignore_bg_event_2": 0,

"ignore_bg_obj": 0,

"ignore_bg_obj_2": 0,

"leave_night_hour": 6,

"leave_night_min": 0,

"min_duration": 10,

"min_obj_size": 0.2000000029802322,

"min_obj_size_2": 0.2000000029802322,

"min_obj_size_option": 1,

"min_obj_size_option_2": 1,

"name": "sw0",

"owner_app": 0,

"owner_ds_id": 0,

"people_cnt": 0,

"people_display_info": 13,

"people_display_pos": 0,

"people_enable_stay_max": false,

"people_enter": 0,

"people_exit": 2,

"people_hint_pos": "0.3442,0.3652,0.5788,0.57",

"people_mode": 0,

"people_region": "0.45,0.3,0.45,0.7,0.55,0.7,0.55,0.3",

"people_size": 0,

"people_stay_max": 100,

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```
            "post_rec_time": 5,
            "pre_rec_time": 5,
            "region_type": 0,
            "reset_cnt_frequency": 1,
            "reset_date": 1,
            "reset_time_hour": 0,
            "reset_time_minute": 0,
            "reset_weekday": 0,
            "schedule":
"111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111111",
            "sensitivity": 1,
            "sensitivity_2": 1,
            "sensitivity_custom_value": 5,
            "sensitivity_custom_value_2": 5,
            "smart_tag_categ": 3,
            "status_flags": 0,
            "stream_profile": 1,
            "sync_to_host": false,
            "trans_flags": 0,
            "trigger_alert": 0
        },
        "startId": 0
    },
    "success": true
}
```


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2.3.55.4 Lock

Lock the recording file of detection results

Request

Key	Value	Description	Availability
dsId	<integer>	The DS id of which DS the recording belongs 0: Local Host > 0: The id of recording server	1 and onward
idList	<string>	Task ids, concatenated by “,”.	1 and onward

Example:

```
GET /webapi/entry.cgi?
dsId="0"&idList="3,2,1"&api=SYNO.SurveillanceStation.IVA.Recording&method=Lock&version=1
```

Response

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

Example:

```
{
    success: true
}
```

2.3.55.5 Unlock

Unlock the recording file of detection results

Request

Key	Value	Description	Availability
dsId	<integer>	The DS id of which DS the recording belongs 0: Local Host > 0: The id of recording server	1 and onward
idList	<string>	Task ids, concatenated by “,”.	1 and onward

Example:

```
GET /webapi/entry.cgi?
dsId="0"&idList="3,2,1"&api=SYNO.SurveillanceStation.IVA.Recording&method=Unlock&version=1
```

Response

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

Example:

```
{
    success: true
}
```

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2.3.56 SYNO.SurveillanceStation.IVA.TaskGroup

This API provides methods to query people counting result.

Name	Version	Availability
SYNO.SurveillanceStation.IVA.Report	1	Surveillance Station 8.2.6

Method Name	Section	Availability
List	2.3.56.1	1 and onward
Create	2.3.56.2	1 and onward
Edit	2.3.56.3	1 and onward
Delete	2.3.56.4	1 and onward
Enable	2.3.56.5	1 and onward
Disable	2.3.56.6	1 and onward
GetPeopleCount	2.3.56.7	1 and onward
ResetPeopleCount	2.3.56.8	1 and onward

2.3.56.1 List

Get the information of the people counting task groups

Request

No parameter is required.

Example:

```
GET /webapi/entry.cgi?api=SYNO.SurveillanceStation.IVA.TaskGroup&method=List&version=1
```

Response

Key	Value	Description	Availability
data	<Group List Object>	Information of group list	1 and onward
success	<boolean>	Execution success or not	1 and onward

<Group List Object> Definitions:

Key	Value	Description	Availability
groups	Array of <Group>	List of task group info	1 and onward
total	<integer>	count of task groups	1 and onward

<Group> Definitions:

Key	Value	Description	Availability
enable	<boolean>	The enabled status of this task group	1 and onward
id	<integer>	The id of this task group	1 and onward
name	<string>	The name of this task group	1 and onward
owner_ds_id	<integer>	The DS id of which DS the recording belongs 0: Local Host	1 and onward

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		> 0: The id of recording server	
people_display_info	<integer>	The bitmap of the display info. 1 - DISPLAY_ANNOTATION 2 - DISPLAY_HINT_WHEN_PASS 4 - DISPLAY_REGION 8 - DISPLAY_BORDER 16 - DISPLAY_LINE 32 - DISPLAY_PEOPLE_COUNT_LIVE 64 - DISPLAY_PEOPLE_COUNT_REC 128 - DISPLAY_PEOPLE_STAY 324 DISPLAY_PEOPLE_GROUP_COUNT 512 - DISPLAY_PEOPLE_GROUP_STAY	1 and onward
people_enable_stay_max	<boolean>	the status of to limit the stay count or not	1 and onward
people_stay_max	<integer>	the limit number of people stayed. Only work when people_enable_stay_max is true.	1 and onward
reset_cnt_frequency	<integer>	the type of reset people count frequency. ● 1 - reset people count by days ● 2 - reset people count by weeks ● 3 - reset people count by months ● 4 - reset people count by years	1 and onward
reset_date	<integer>	the date of the month to reset count	1 and onward
reset_time_hour	<integer>	the hours of the day to reset count	1 and onward
reset_time_minute	<integer>	the minutes of the hour in the day to reset count	1 and onward
reset_weekday	<integer>	the weekday to reset count	1 and onward
task_ids	<string>	Task ids of this group, concatenated by “,”.	1 and onward
uniqueId	<string>	the unique id in cms, the dsId and the group id concatenated by “_“.	1 and onward

Example:

```
{
    data: {
        groups:
        [{
            enable: true
            id: 1
            name: "ppl01"
            owner_ds_id: 0
            people_display_info: 768
            people_enable_stay_max: false
```

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```
                people_stay_max: 100
                reset_cnt_frequency: 1
                reset_date: 1
                reset_time_hour: 0
                reset_time_minute: 0
                reset_weekday: 0
                task_ids: "2,3"
                uniqueId: "0_1"
            }]
            total: 1
        }
        success: true
}
```

2.3.56.2 Create

create a people counting task group

Request

Key	Value	Description	Availability
enable	<boolean>	The enabled status of this task group.	1 and onward
task_ids	<string>	Task ids of this group, concatenated by “,”.	1 and onward
owner_ds_id	<integer>	The DS id of which DS the recording belongs 0: Local Host > 0: The id of recording server	1 and onward
name	<string>	The name of this task group	1 and onward
people_display_info	<integer>	The bitmap of the display info. 1 - DISPLAY_ANNOTATION 2 - DISPLAY_HINT_WHEN_PASS 4 - DISPLAY_REGION 8 - DISPLAY_BORDER 16 - DISPLAY_LINE 32 - DISPLAY_PEOPLE_COUNT_LIVE 64 - DISPLAY_PEOPLE_COUNT_REC 128 - DISPLAY_PEOPLE_STAY 324 DISPLAY_PEOPLE_GROUP_COUNT 512 - DISPLAY_PEOPLE_GROUP_STAY	1 and onward
people_enable_stay_max	<boolean>	the status of to limit the stay count or not	1 and onward
people_stay_max	<integer>	the limit number of people stayed. Only work when people_enable_stay_max is true.	1 and onward

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reset_cnt_frequency	<integer>	the type of reset people count frequency. ● 1 - reset people count by days ● 2 - reset people count by weeks ● 3 - reset people count by months ● 4 - reset people count by years	1 and onward
reset_date	<integer>	the date of the month to reset count	1 and onward
reset_weekday	<integer>	the weekday to reset count	1 and onward
reset_time_hour	<integer>	the hours of the day to reset count	1 and onward
reset_time_minute	<integer>	the minutes of the hour in the day to reset count	1 and onward

Example:

```
GET /webapi/entry.cgi?
name="123"&owner_ds_id="0"&task_ids="2,3"&people_display_info=768&reset_cnt_frequency="1"&reset_weekday="0"&reset_date="1"&reset_time_hour="0"&reset_time_minute="0"&people_enable_stay_max=false&people_stay_max="100"&enable=true&api=SYNO.SurveillanceStation.IVA.TaskGroup&method=Create&version=1alse&people_stay_max="100"&id=2&enable=true&api=SYNO.SurveillanceStation.IVA.TaskGroup&method=Edit&version=1
```

Response

Key	Value	Description	Availability
data	<Group Id Object>	Information of group id	1 and onward
success	<boolean>	Execution success or not	1 and onward

<Group Id Object> Definitions:

Key	Value	Description	Availability
id	<integer>	The id of this group	1 and onward

Example:

```
{
    "data" : {
        "id" : 2
    },
    "success" : true
}
```

2.3.56.3 Edit

Modify the setting of a people counting task group

Request

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Key	Value	Description	Availability
enable	<boolean>	The enabled status of this task group.	1 and onward
id	<integer>	The id of this task group	1 and onward
task_ids	<string>	Task ids of this group, concatenated by “,”.	1 and onward
name	<string>	The name of this task group	1 and onward
people_display_info	<integer>	The bitmap of the display info. ● 1 - DISPLAY_ANNOTATION ● 2 - DISPLAY_HINT_WHEN_PASS ● 4 - DISPLAY_REGION ● 8 - DISPLAY_BORDER ● 16 - DISPLAY_LINE ● 32 - DISPLAY_PEOPLE_COUNT_LIVE ● 64 - DISPLAY_PEOPLE_COUNT_REC ● 128 - DISPLAY_PEOPLE_STAY ● 324 - DISPLAY_PEOPLE_GROUP_COUNT ● 512 - DISPLAY_PEOPLE_GROUP_STAY	1 and onward
people_enable_stay_max	<boolean>	the status of to limit the stay count or not	1 and onward
people_stay_max	<integer>	the limit number of people stayed. Only work when people_enable_stay_max is true.	1 and onward
reset_cnt_frequency	<integer>	the type of reset people count frequency. ● 1 - reset people count by days ● 2 - reset people count by weeks ● 3 - reset people count by months ● 4 - reset people count by years	1 and onward
reset_date	<integer>	the date of the month to reset count	1 and onward
reset_weekday	<integer>	the weekday to reset count	1 and onward
reset_time_hour	<integer>	the hours of the day to reset count	1 and onward
reset_time_minute	<integer>	the minutes of the hour in the day to reset count	1 and onward

Example:

```
GET /webapi/entry.cgi?
name="ppl1"&task_ids="8,9"&people_display_info=768&reset_cnt_frequency="2"&reset_weekday="0"&reset_date="1"&reset_time_hour="0"&reset_time_minute="0"&people_enable_stay_max=false&people_stay_max="100"&id=2&enable=true&api=SYNO.SurveillanceStation.IVA.TaskGroup&method=Edit&version=1
```

Response

Key	Value	Description	Availability
data	<Group Id Object>	Information of group id	1 and onward
success	<boolean>	Execution success or not	1 and onward

<Group Id Object> Definitions:

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Key	Value	Description	Availability
id	<integer>	The id of this group	1 and onward

Example:

```
{
    "data" : {
        "id" : 2
    },
    "success" : true
}
```

2.3.56.4 Delete

Delete the task groups

Request

Key	Value	Description	Availability
ids	<string>	ids of the task groups to be deleted,, concatenated by “,”.	1 and onward

Example:

```
GET /webapi/entry.cgi?ids="2"&api=SYNO.SurveillanceStation.IVA.TaskGroup&method=Delete&version=1
```

Response

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

Example:

```
{
    success: true
}
```

2.3.56.5 Enable

Start to count the people for the people counting task in groups

Request

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Key	Value	Description	Availability
ids	<string>	ids of the task groups to be enabled,, concatenated by “,”.	1 and onward

Example:

```
GET /webapi/entry.cgi?ids="2"&api=SYNO.SurveillanceStation.IVA.TaskGroup&method=Enable&version=1
```

Response

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

Example:

```
{
    success: true
}
```

2.3.56.6 Disable

Stop to count the people for the people counting task in groups

Request

Key	Value	Description	Availability
ids	<string>	ids of the task groups to be enabled,, concatenated by “,”.	1 and onward

Example:

```
GET /webapi/entry.cgi?ids="2"&api=SYNO.SurveillanceStation.IVA.TaskGroup&method=Disable&version=1
```

Response

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

Example:

```
{
    success: true
}
```

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2.3.56.7 GetPeopleCount

Get the counting number of the task group

Request

Key	Value	Description	Availability
id	<integer>	id of the task group to get people counting number	1 and onward

Example:

```
GET /webapi/entry.cgi?
id=2&api=SYNO.SurveillanceStation.IVA.TaskGroup&method=GetPeopleCount&version=1
```

Response

Key	Value	Description	Availability
data	<People Count Info>	Information of people counting info	1 and onward
success	<boolean>	Execution success or not	1 and onward

<People Count Info> Definitions:

Key	Value	Description	Availability
InCount	<integer>	The counting number of people in	1 and onward
OutCount	<integer>	The counting number of people out	1 and onward

Example:

```
{
  "data" : {
    "InCount" : 1459,
    "OutCount" : 2632
  },
  "success" : true
}
```

2.3.56.8 ResetPeopleCount

Lock the recording file of detection results

Request

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Key	Value	Description	Availability
id	<integer>	id of the task group to reset people counting number	1 and onward

Example:

```
GET /webapi/entry.cgi?
id=2&api=SYNO.SurveillanceStation.IVA.TaskGroup&method=ResetPeopleCount&version=1
```

Response

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

Example:

```
{
    success: true
}
```

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2.3.57 SYNO.SurveillanceStation.Face

This API provides methods to get information of face task list and settings.

Name	Version	Availability
SYNO.SurveillanceStation.Face	1	Surveillance Station 8.2.8

Method Name	Section	Availability
ListTask	2.3.57.1	1 and onward
SaveTask	2.3.57.2	1 and onward
DeleteTask	2.3.57.3	1 and onward
EnableTask	2.3.57.4	1 and onward
DisableTask	2.3.57.5	1 and onward
ListPlayableTsk	2.3.57.6	1 and onward
CreateFaceGroup	2.3.57.7	1 and onward
DeleteFaceGroup	2.3.57.8	1 and onward
EditFaceGroup	2.3.57.9	1 and onward
ListFaceGroup	2.3.57.10	1 and onward
CountFaceGroup	2.3.57.11	1 and onward
DetectImageFace	2.3.57.12	1 and onward
CreateRegisteredFace	2.3.57.13	1 and onward
DeleteRegisteredFace	2.3.57.14	1 and onward
EditRegisteredFace	2.3.57.15	1 and onward
ListRegisteredFace	2.3.57.16	1 and onward
CountRegisteredFace	2.3.57.17	1 and onward
SearchRegisteredFace	2.3.57.18	1 and onward

2.3.57.1 ListTask

Get face task list.

Request

Key	Value	Description	Availability
ids	<string>	the string of comma-separated ids of tasks to list.	1 and onward
ownerDsId	<integer>	Indicate owner DS of tasks to list, 0 means the tasks belongs to LOCAL_HOST	1 and onward
blOnlyEnableDs	<boolean>	Indicate if only list enabled tasks	1 and onward

Example:

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

Response

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Key	Value	Description	Availability
data	<Task List Object>	Information of task list	1 and onward
success	<boolean>	Execution success or not	1 and onward

<Task List Object> Definitions:

Key	Value	Description	Availability
task	Array of <Task>	List of task info	1 and onward
total	<integer>	The total number of tasks	1 and onward

<Task> Definitions:

Key	Value	Description	Availability
allowed_color	<integer>	display color id for face in allowed list	1 and onward
allowed_count	<integer>	the counter for allowed faces	1 and onward
allowed_list	Array of <integer>	the list of ids of allowed groups	1 and onward
allowed_name_list	Array of <string>	the list of names of allowed groups	1 and onward
blocked_color	<integer>	display color id for face in blocked list	1 and onward
blocked_count	<integer>	the counter for the blocked faces	1 and onward
blocked_list	Array of <integer>	the list of ids of blocked groups	1 and onward
blocked_name_list	Array of <string>	the list of names of blocked groups	1 and onward
vip_color	<integer>	display color id for face in vip list	1 and onward
vip_count	<integer>	the counter for vip faces	1 and onward
vip_list	Array of <integer>	the list of ids of vip groups	1 and onward
vip_name_list	Array of <string>	the list of names of vip groups	1 and onward
recognized_color	<integer>	display color id for recognized faces	1 and onward
recognized_count	<integer>	the counter for recognized faces	1 and onward
unrecognized_color	<integer>	display color id for unrecognized face	1 and onward
unrecognized_count	<integer>	the counter for unrecognized faces	1 and onward
camera_id	<integer>	Paired camera id.	1 and onward
deleted	<boolean>	The deleted status of this task.	1 and onward
det_region	<string>	the comma-separated floating number to show the coordinate of detected region on frame.	1 and onward
det_region_cnt	<integer>	the counter for the detected region.	1 and onward
region_type	<integer>	the type of display region. (detectable or undetectable)	
display_info	<integer>	The status of display information setting of liveview.	1 and onward
frame_display_info	<integer>	The status of display information setting of each face in frame	
enable	<boolean>	The enabled status of this task.	1 and onward
enable_min_obj_size	<boolean>	The status of setting to enable limitation for minimum object size.	1 and onward
min_obj_size	<float>	The limitation for the minimum face size. (%)	1 and onward

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post_rec_time	<integer>	The append second of the record after the time when captured face are displayed.	1 and onward
pre_rec_time	<integer>	The append second of the record before the time when captured face are displayed.	1 and onward
schedule	<string>	the string of bits to decide whether to detect or not for the days in a week.	1 and onward
scheduleOn	<boolean>	the status of whether the task is following the schedule or not.	1 and onward
similarity	<float>	the threshold of recognition similarity.	1 and onward
stream_profile	<integer>	the type of stream quality	1 and onward
transientSts	<integer>	the quality type of stream frame rate	1 and onward
trans_flags	<integer>	the bitmap of transient status	1 and onward
trigger_alert	<integer>	the bitmap of alert status	1 and onward
id	<integer>	The id of this task.	1 and onward
owner_ds_id	<integer>	The ds id of the owner of the task. For instance, 0 means this task belongs to LOCAL_HOST	1 and onward
task_id	<integer>	The id of this task.	1 and onward
id_on_rec_server	<integer>	The task id of the counterpart of this task on recording server	1 and onward
name	<string>	The name of this task.	1 and onward
ignore_bad_quality	<boolean>	True if this task won't send alerts on detected faces with low quality(e.g., blurred).	1 and onward
todayEvtCnt	<integer>	The event count of this task today.	1 and onward

Example:


```
{
  "data" : {
    "task" : [
      {
        "allowed_color" : 3,
        "allowed_count" : 0,
        "allowed_list" : [ 1 ],
        "allowed_name_list" : [ "test_group" ],
        "blocked_color" : 4,
        "blocked_count" : 0,
        "blocked_list" : [],
        "blocked_name_list" : [],
        "camera_id" : 1,
        "deleted" : false,
        "det_region" :
"0.0,0.0,0.0,1.0,1.0,1.0,1.0,0.0;0.1000,0.9000,0.1000,0.1000,0.9000,0.1000,0.9000,0.9000;0.2000,0.8000,0.2000,0.2000,0.8000,0.2000,0.8000,0.8000",
```


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```
        "det_region_cnt" : 1,
        "display_info" : 2,
        "enable" : true,
        "enable_min_obj_size" : false,
        "enable_schedule" : true,
        "frame_display_info" : 1,
        "id" : 1,
        "id_on_rec_server": 1,
        "ignore_bad_quality" : true,
        "min_obj_size" : 0.2000000029802322,
        "name" : "0",
        "owner_ds_id": 0,
        "post_rec_time" : 5,
        "pre_rec_time" : 5,
        "recognized_color" : 6,
        "recognized_count" : 0,
        "region_type" : 0,
        "schedule" :
"111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111",
        "scheduleOn" : true,
        "similarity" : 0.800000011920929,
        "stream_profile" : 1,
        "task_id" : 1,
        "transientSts" : 0,
        "trigger_alert" : 127,
        "unrecognized_color" : 8,
        "unrecognized_count" : 0,
        "vip_color" : 1,
        "vip_count" : 0,
        "vip_list" : [],
        "vip_name_list" : []
      }
    ],
    "total" : 1
```


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```
    },
    "httpd_restart" : false,
    "success" : true
}
```

2.3.57.2 SaveTask

Create or edit task.

Request

Key	Value	Description	Availability
id	<integer>	The id of the task to edit.	1 and onward
id_on_rec_server	<integer>	The task id of the counterpart of this task on recording server	1 and onward
camera_id	<integer>	The camera id to paired.	1 and onward
camera_id_on_rec	<integer>	The camera id on recording server to paired.	1 and onward
owner_ds_id	<integer>	Indicate owner DS of this task, 0 means the tasks belongs to LOCAL_HOST	1 and onward
enable	<boolean>	The status of whether the task is enabled or not.	1 and onward
blEditMode	<boolean>	The status of whether this request is edit-mode or not	1 and onward
stream_profile	<integer>	the type of stream quality	1 and onward
name	<string>	The name of this task.	1 and onward
similarity	<float>	the threshold of recognition similarity.	1 and onward
allowed_color	<integer>	display color id for face in allowed list	1 and onward
allowed_list	Array of <integer>	the list of ids of allowed groups	1 and onward
blocked_color	<integer>	display color id for face in blocked list	1 and onward
blocked_list	Array of <integer>	the list of ids of blocked groups	1 and onward
vip_color	<integer>	display color id for face in vip list	1 and onward
vip_list	Array of <integer>	the list of ids of vip groups	1 and onward
recognized_color	<integer>	display color id for recognized faces	1 and onward
unrecognized_color	<integer>	display color id for unrecognized face	1 and onward
deleted	<boolean>	The deleted status of this task.	1 and onward
det_region	<string>	the comma-separated floating number to show the coordinate of detected region on frame.	1 and onward
det_region_cnt	<integer>	the counter for the detected region.	1 and onward
region_type	<integer>	the type of display region. (detectable or undetectable)	
display_info	<integer>	The status of display information setting of liveview.	1 and onward
frame_display_info	<integer>	The status of display information setting of each face in frame	

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enable_min_obj_size	<boolean>	The status of setting to enable limitation for minimum object size.	1 and onward
min_obj_size	<float>	The limitation for the minimum face size.	1 and onward
post_rec_time	<integer>	The append second of the record after the time when captured face are displayed.	1 and onward
pre_rec_time	<integer>	The append second of the record before the time when captured face are displayed.	1 and onward
schedule	<string>	the string of bits to decide whether to detect or not for the days in a week.	1 and onward
scheduleOn	<boolean>	the status of whether the task is following the schedule or not.	1 and onward
similarity	<float>	the threshold of recognition similarity.	1 and onward
ignore_bad_quality	<boolean>	the status of whether to ignore bad quality result or not	1 and onward

Example:

```
POST /webapi/entry.cgi

Form Data

id: 0

enable: true

blEditMode: false

stream_profile: 0

camera_id: 1

name: "0"

similarity: 0.8

display_info: 0

enable_min_obj_size: false

min_obj_size: "0.2"

frame_display_info: 1

region_type: "0"

det_region_cnt: "1"

det_region:

"0.0,0.0,0.0,1.0,1.0,1.0,1.0,0.0;0.1000,0.9000,0.1000,0.1000,0.9000,0.1000,0.9000,0.9000;0.2000,

0.8000,0.2000,0.2000,0.8000,0.2000,0.8000,0.8000"

recognized_color: 3

unrecognized_color: 8
```

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```
vip_color: 1
vip_list: ""
allowed_color: 2
allowed_list: ""
blocked_color: 4
blocked_list: ""
ignore_bad_quality: true
```

Response

Key	Value	Description	Availability
data	<Task Object>	Information of task info.	1 and onward
success	<boolean>	Execution success or not	1 and onward

<Task Object> Definitions:

Key	Value	Description	Availability
allowed_color	<integer>	display color id for face in allowed list	1 and onward
allowed_count	<integer>	the counter for allowed faces	1 and onward
allowed_list	Array of <integer>	the list of ids of allowed groups	1 and onward
allowed_name_list	Array of <string>	the list of names of allowed groups	1 and onward
blocked_color	<integer>	display color id for face in blocked list	1 and onward
blocked_count	<integer>	the counter for the blocked faces	1 and onward
blocked_list	Array of <integer>	the list of ids of blocked groups	1 and onward
blocked_name_list	Array of <string>	the list of names of blocked groups	1 and onward
vip_color	<integer>	display color id for face in vip list	1 and onward
vip_count	<integer>	the counter for vip faces	1 and onward
vip_list	Array of <integer>	the list of ids of vip groups	1 and onward
vip_name_list	Array of <string>	the list of names of vip groups	1 and onward
recognized_color	<integer>	display color id for recognized faces	1 and onward
recognized_count	<integer>	the counter for recognized faces	1 and onward
unrecognized_color	<integer>	display color id for unrecognized face	1 and onward
unrecognized_count	<integer>	the counter for unrecognized faces	1 and onward
camera_id	<integer>	Paired camera id.	1 and onward
deleted	<boolean>	The deleted status of this task.	1 and onward
det_region	<string>	the comma-separated floating number to show the coordinate of detected region on frame.	1 and onward
det_region_cnt	<integer>	the counter for the detected region.	1 and onward

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region_type	<integer>	the type of display region. (detectable or undetectable)	
display_info	<integer>	The status of display information setting of liveview.	1 and onward
frame_display_info	<integer>	The status of display information setting of each face in frame	
enable	<boolean>	The enabled status of this task.	1 and onward
enable_min_obj_size	<boolean>	The status of setting to enable limitation for minimum object size.	1 and onward
min_obj_size	<float>	The limitation for the minimum face size. (%)	1 and onward
post_rec_time	<integer>	The append second of the record after the time when captured face are displayed.	1 and onward
pre_rec_time	<integer>	The append second of the record before the time when captured face are displayed.	1 and onward
schedule	<string>	the string of bits to decide whether to detect or not for the days in a week.	1 and onward
scheduleOn	<boolean>	the status of whether the task is following the schedule or not.	1 and onward
similarity	<float>	the threshold of recognition similarity.	1 and onward
stream_profile	<integer>	the type of stream quality	1 and onward
transientSts	<integer>	the quality type of stream frame rate	1 and onward
trans_flags	<integer>	the bitmap of transient status	1 and onward
trigger_alert	<integer>	the bitmap of alert status	1 and onward
id	<integer>	The id of this task.	1 and onward
owner_ds_id	<integer>	The ds id of the owner of the task. For instance, 0 means this task belongs to LOCAL_HOST	1 and onward
task_id	<integer>	The id of this task.	1 and onward
id_on_rec_server	<integer>	The task id of the counterpart of this task on recording server	1 and onward
name	<string>	The name of this task.	1 and onward
ignore_bad_quality	<boolean>	True if this task won't send alerts on detected faces with low quality(e.g., blurred).	1 and onward
todayEvtCnt	<integer>	The event count of this task today.	1 and onward

Example:


```
{
        "data": {
                "allowed_color": 2,
                "allowed_list": "",
                "blocked_color": 4,
                "blocked_list": "",
                "camera_id": 1,
                "deleted": false,
                "det_region":
"0.0,0.0,0.0,1.0,1.0,1.0,1.0,0.0;0.1,0.9,0.1,0.1,0.9,0.1,0.9,0.9;0.2,0.8,0.2,0.2,0.8,0.2,0.8,0.8",
                "det_region_cnt": 1,
                "display_info": 3,
                "enable": true,
                "enable_min_obj_size": false,
```


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```
                "enable_schedule": true,
                "frame_display_info": 1,
                "id": 1,
                "id_on_rec_server": 1,
                "ignore_bad_quality": true,
                "min_obj_size": 0.2,
                "name": "Face Test CreateTask",
                "owner_ds_id": 0,
                "post_rec_time": 5,
                "pre_rec_time": 5,
                "recognized_color": 3,
                "region_type": 0,
                "schedule":
"111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111",
                "similarity": 0.8,
                "stream_profile": 0,
                "task_id": 1,
                "trigger_alert": 0,
                "unrecognized_color": 8,
                "vip_color": 1,
                "vip_list": ""
        },
        "success": true
}
```


2.3.57.3 DeleteTask

Delete face task.

Request

Key	Value	Description	Availability
ids	<string>	the comma-separated id of tasks to be deleted.	1 and onward
keepRecording	<boolean>	the status of whether record to be kept or not when task deleted	1 and onward

Example:

```
GET /webapi/entry.cgi?
ids="4"&keepRecording=false&api=SYNO.SurveillanceStation.Face&method=DeleteTask&version=
1
```

Response

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

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Example:

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

2.3.57.4 EnableTask

Enable task to start detection and recording.

Request

Key	Value	Description	Availability
ids	<string>	the comma-separated id of tasks to be enabled.	1 and onward

Example:

```
GET /webapi/entry.cgi?ids="2"&api=SYNO.SurveillanceStation.Face&method=EnableTask&version=1
```

Response

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

Example:

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

2.3.57.5 DisableTask

Disable task to stop detection and stop recording.

Request

Key	Value	Description	Availability
ids	<string>	the comma-separated id of tasks to be disabled.	1 and onward

Example:

```
GET /webapi/entry.cgi?
ids="2"&api=SYNO.SurveillanceStation.Face&method=DisableTask&version=1
```

Response

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

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Example:

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

2.3.57.6 ListPlayableTask

List tasks that the user has the privilege to watch record, but don't have the privilege to watch liveview.

Request

Key	Value	Description	Availability
ids	<string>	the comma-separated id of tasks to be listed.	1 and onward

Example:

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

Response

Key	Value	Description	Availability
data	<Task List Object>	Information of task list.	1 and onward
success	<boolean>	Execution success or not.	1 and onward

<Task List Object> Definitions:

Key	Value	Description	Availability
task	Array of <Task>	List of task info. (Only id and name info.)	1 and onward
total	<integer>	The total number of listed tasks.	1 and onward

Example:

```
{
    "data":
        {
            "task":[
                {"id":2,"name":"1"},
                {"id":5,"name":"0"}
                ],
            "total":2
        }
```

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```
    ,"success":true
}
```

2.3.57.7 CreateFaceGroup

Create face group.

Request

Key	Value	Description	Availability
name	<string>	Name of the face group.	1 and onward
description	<string>	Description of the face group.	1 and onward
update_registered_face	<Face List Object>	Information of face lists in the face group.	1 and onward

<Face List Object> Definitions:

Key	Value	Description	Availability
ids	Array of <integer>	Ids of faces.	1 and onward

Example:

```
GET /webapi/entry.cgi?name="name"&description="des"&update_registered_face={"ids":[]}&api=SYNO.SurveillanceStation.Face&method=CreateFaceGroup&version=1
```

Response

Key	Value	Description	Availability
data	<Result Object>	Information of execution result.	1 and onward
success	<boolean>	Execution success or not.	1 and onward

<Result Object> Definitions:

Key	Value	Description	Availability
error_code	<integer>	Error code of the execution.	1 and onward
success	<boolean>	Execution success or not.	1 and onward
face_group	<Face Group Object>	Information of face groups.	1 and onward

<Face Group Object> Definitions:

Key	Value	Description	Availability
checked	<boolean>	The group is checked on the UI or not.	1 and onward
description	<string>	Description of the face group.	1 and onward
id	<integer>	Id of the face group.	1 and onward
name	<string>	Name of the face group.	1 and onward
registered_face	<integer>	Number of registered face in the face group.	1 and onward

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_count			
registered_face_ids	Array of <integer>	Face ids of registered face in the face group.	1 and onward

Example:

```
{
    "data": {
        "error_code": 0,
        "face_group": {
            "checked": false,
            "description": "des",
            "id": 100,
            "name": "name",
            "registered_face_count": 0,
            "registered_face_ids": []
        },
        "success": true
    },
    "success": true
}
```

2.3.57.8 DeleteFaceGroup

Delete face group.

Request

Key	Value	Description	Availability
ids	Array of <integer>	Face group ids to delete.	1 and onward

Example:

```
GET /webapi/entry.cgi?
ids=[101]&api=SYNO.SurveillanceStation.Face&method=DeleteFaceGroup&version=1
```

Response

Key	Value	Description	Availability
data	<Result Object>	Information of execution result.	1 and onward
success	<boolean>	Execution success or not.	1 and onward

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<Result Object> Definitions:

Key	Value	Description	Availability
error_code	<integer>	Error code of the execution.	1 and onward
success	<boolean>	Execution success or not.	1 and onward
ids	Array of <integer>	Face group ids to delete.	1 and onward
face_group	<Face Group Object>	Information of face groups.	1 and onward

<Face Group Object> Definitions:

Key	Value	Description	Availability
checked	<boolean>	The group is checked on the UI or not.	1 and onward
description	<string>	Description of the face group.	1 and onward
id	<integer>	Id of the face group.	1 and onward
name	<string>	Name of the face group.	1 and onward
registered_face_count	<integer>	Number of registered face in the face group.	1 and onward
registered_face_ids	Array of <integer>	Face ids of registered face in the face group.	1 and onward

Example:

```
{
    "data": {
        "error_code": 0,
        "face_groups": [
            {
                "checked": false,
                "description": "des",
                "id": 101,
                "name": "name",
                "registered_face_count": 1,
                "registered_face_ids": [
                    154
                ]
            }
        ],
        "ids": [
            101
```

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```
        ],
        "success": true
    },
    "success": true
}
```

2.3.57.9 EditFaceGroup

Edit the face group.

Request

Key	Value	Description	Availability
name	<string>	Name of the face group.	1 and onward
description	<string>	Description of the face group.	1 and onward
update_registered_face	<Face List Object>	Information of face lists in the face group.	1 and onward
id	<integer>	Id of the face group to edit.	1 and onward

<Face List Object> Definitions:

Key	Value	Description	Availability
ids	Array of <integer>	Ids of faces.	1 and onward

Example:

```
GET /webapi/entry.cgi?name="name"&description="des"&update_registered_face={"ids":[154]}&id=100&api=SYNO.SurveillanceStation.Face&method=EditFaceGroup&version=1
```

Response

Key	Value	Description	Availability
data	<Result Object>	Information of execution result.	1 and onward
success	<boolean>	Execution success or not.	1 and onward

<Result Object> Definitions:

Key	Value	Description	Availability
error_code	<integer>	Error code of the execution.	1 and onward
success	<boolean>	Execution success or not.	1 and onward
face_group	<Face Group Object>	Information of face groups.	1 and onward

<Face Group Object> Definitions:

Key	Value	Description	Availability

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checked	<boolean>	The group is checked on the UI or not.	1 and onward
description	<string>	Description of the face group.	1 and onward
id	<integer>	Id of the face group.	1 and onward
name	<string>	Name of the face group.	1 and onward
registered_face_count	<integer>	Number of registered face in the face group.	1 and onward
registered_face_ids	Array of <integer>	Face ids of registered face in the face group.	1 and onward

Example:

```
{
    "data": {
        "error_code": 0,
        "face_group": {
            "checked": false,
            "description": "des",
            "id": 100,
            "name": "name",
            "registered_face_count": 1,
            "registered_face_ids": [
                154
            ]
        },
        "success": true
    },
    "success": true
}
```

2.3.57.10 ListFaceGroup

Get face group list.

Request

Key	Value	Description	Availability
id_only	<boolean>	Results only contain id or not.	1 and onward
filter	<Filter Object>	Information of filter .	1 and onward

<Filter Object> Definitions:

Key	Value	Description	Availability
offset	<integer>	Start offset of the query result.	1 and onward

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limit	<integer>	Limit of the number of the result.	1 and onward
ids	Array of <integer>	List the face groups matching the ids.	1 and onward
name	<string>	List the face groups having substring in the name.	1 and onward
description	<string>	List the face groups having substring in the description.	1 and onward
checked_ids	Array of <integer>	Checked face group ids on UI.	1 and onward
keyword	<string>	Keyword in the name or description. Using " " separate multiple string pattern.	1 and onward
order_by	<Order Object>	Information of the order.	1 and onward

<Order Object> Definitions:

Key	Value	Description	Availability
column	<string>	One of ID, NAME, REGISTERED_FACE_COUNT	1 and onward
order	<string>	One of ASC, DESC	1 and onward

Example:

```
GET /webapi/entry.cgi?filter={"limit"=50,"order_by":
{"column":"ID","order":"ASC"}}&api=SYNO.SurveillanceStation.Face&method=ListFaceGroup&vers
ion=1
```

Response

Key	Value	Description	Availability
data	<Result Object>	Information of execution result.	1 and onward
success	<boolean>	Execution success or not.	1 and onward

<Result Object> Definitions:

Key	Value	Description	Availability
error_code	<integer>	Error code of the execution.	1 and onward
success	<boolean>	Execution success or not.	1 and onward
face_groups	Array of <Face Group Object>	Information of face groups.	1 and onward
ids	Array of <integer>	Groups ids.	1 and onward
total	<integer>	Number of face groups.	1 and onward

<Face Group Object> Definitions:

Key	Value	Description	Availability
checked	<boolean>	The group is checked on the UI or not.	1 and onward
description	<string>	Description of the face group.	1 and onward
id	<integer>	Id of the face group.	1 and onward
name	<string>	Name of the face group.	1 and onward
registered_face_count	<integer>	Number of registered face in the face group.	1 and onward
registered_face_ids	Array of <integer>	Face ids of registered face in the face group.	1 and onward

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Example:

```
{
    "data": {
        "error_code": 0,
        "face_groups": [
            {
                "checked": false,
                "description": "des",
                "id": 142,
                "name": "name",
                "registered_face_count": 0,
                "registered_face_ids": []
            }
        ],
        "ids": [
            142
        ],
        "success": true,
        "total": 1
    },
    "success": true
}
```

2.3.57.11 CountFaceGroup

Count number of face groups.

Request

Key	Value	Description	Availability
filter	<Filter Object>	Information of filter .	1 and onward

<Filter Object> Definitions:

Key	Value	Description	Availability
offset	<integer>	Start offset of the query result.	1 and onward
limit	<integer>	Limit of the number of the result.	1 and onward
ids	Array of <integer>	List the face groups matching the ids.	1 and onward
name	<string>	List the face groups having substring in the name.	1 and onward
description	<string>	List the face groups having substring in the description.	1 and onward

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checked_ids	Array of <integer>	Checked face group ids on UI.	1 and onward
keyword	<string>	Keyword in the name or description. Using " " separate multiple string pattern.	1 and onward
order_by	<Order Object>	Information of the order.	1 and onward

<Order Object> Definitions:

Key	Value	Description	Availability
column	<string>	One of ID, NAME, REGISTERED_FACE_COUNT	1 and onward
order	<string>	One of ASC, DESC	1 and onward

Example:

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

Response

Key	Value	Description	Availability
data	<Result Object>	Information of execution result.	1 and onward
success	<boolean>	Execution success or not.	1 and onward

<Result Object> Definitions:

Key	Value	Description	Availability
error_code	<integer>	Error code of the execution.	1 and onward
success	<boolean>	Execution success or not.	1 and onward
count	<integer>	Number of face groups.	1 and onward

Example:

```
{
    "data": {
      "count": 3,
      "error_code": 0,
      "success": true
    },
    "success": true
}
```

2.3.57.12 DetectImageFace

Detect faces in a image.

Request

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Key	Value	Description	Availability
image_data	<string>	Base64 encode of registered face image.	1 and onward
image_size	<integer>	Size of image_data (before encoded).	1 and onward

Example:

```
GET /webapi/entry.cgi?
api=SYNO.SurveillanceStation.Face&method=DetectImageFace&version=1&&image_size=84776&image_data="..."(base64 encode of image)
```

Response

Key	Value	Description	Availability
data	<Result Object>	Information of execution result.	1 and onward
success	<boolean>	Execution success or not.	1 and onward

<Result Object> Definitions:

Key	Value	Description	Availability
error_code	<integer>	Error code of the execution.	1 and onward
success	<boolean>	Execution success or not.	1 and onward
faces	Array of <Face Object>	Detected faces	1 and onward

<Face Object> Definitions:

Key	Value	Description	Availability
detection	<Detection Object>	Detection of face.	1 and onward
feature	Array of <double>	Feature of target face.	1 and onward
bad_quality	<boolean>	Indicate if the face is bad quality.	1 and onward

<Detection Object> Definitions:

Key	Value	Description	Availability
conf	<float>	Confidence of the detection.	1 and onward
bbox	<BoundingBox>	Bounding box of detected face	1 and onward
landmark	<Landmark>	Landmark of face.	1 and onward

<BoundingBox> Definitions:

Key	Value	Description	Availability
bottom_right	<Point>	Bottom right coordinate of detection	1 and onward
top_left	<Point>	Top left coordinate of detection	1 and onward

<Landmark> Definitions:

Key	Value	Description	Availability
left_eye	<Point>	Coordination of left eye	1 and onward
right_eye	<Point>	Coordination of right eye	1 and onward

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nose	<Point>	Coordination of nose	1 and onward
mouth_left	<Point>	Coordination of mouth left point	1 and onward
mouth_right	<Point>	Coordination of mouth right point	1 and onward

<Point> Definitions:

Key	Value	Description	Availability
x	<float>	x coordinate of point	1 and onward
y	<float>	y coordinate of point	1 and onward

Example:


```
{
    "data": {
        "error_code": 0,
        "faces": [
            {
                "bad_quality": false,
                "detection": {
                    "bbox": {
                        "bottom_right": {
                            "x": 0.7558333277702332,
                            "y": 0.8221428394317627
                        },
                        "top_left": {
                            "x": 0.2074999958276749,
                            "y": 0.1942857205867767
                        }
                    },
                    "conf": 0.9909785985946655,
                    "landmark": {
                        "left_eye": {
                            "x": 0.3224999904632568,
                            "y": 0.4642857015132904
                        },
                        "mouth_left": {
                            "x": 0.2649999856948853,
                            "y": 0.6578571200370789
                        },
```


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```
            "mouth_right": {
                "x": 0.3991666734218597,
                "y": 0.7057142853736877
            },
            "nose": {
                "x": 0.3158333301544189,
                "y": 0.5742856860160828
            },
            "right_eye": {
                "x": 0.5008333325386047,
                "y": 0.522857129573822
            }
        }
    },
    "feature": [
        0.03171852603554726,
        -0.327616810798645,
        -0.09268184006214142,
        -0.01303871534764767,
        0.05430549383163452,
        -0.1040792390704155,
        -0.04600917920470238,
        -0.04881620034575462,
        0.1122017204761505,
        0.01901257410645485,
        -0.07227008044719696,
        -0.006643524393439293,
        0.03866777196526527,
        -0.06888914108276367,
        0.03924157842993736,
        0.02998779900372028,
        0.03805521503090858,
        0.0199570432305336,
        -0.1169411092996597,
        -0.02250787802040577,
```


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-0.167428269982338,
-0.02108175866305828,
0.0717247724533081,
0.06246195733547211,
0.08616770803928375,
-0.1195886507630348,
-0.04478453099727631,
0.01743170246481895,
0.1663680523633957,
-0.1126247569918633,
0.07804444432258606,
-0.02626571618020535,
-0.004548948723822832,
-0.05173249915242195,
0.08363643288612366,
0.1642337143421173,
0.0941116064786911,
0.1006007939577103,
-0.03028238005936146,
-0.03303150087594986,
0.1619229465723038,
-0.05161372199654579,
0.02699304558336735,
0.05814265087246895,
0.01483084727078676,
-0.02029252052307129,
0.08939621597528458,
0.006152923684567213,
-0.1562657803297043,
0.0109412269666791,
-0.03838983178138733,
-0.09654632210731507,
-0.1075751706957817,
0.08595514297485352,
-0.04163002967834473,

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-0.09085164219141007,
-0.09127409756183624,
0.07326977699995041,
-0.08103315532207489,
0.01263571437448263,
0.02780077420175076,
-0.04454609751701355,
-0.02172120660543442,
0.06325339525938034,
0.01089720334857702,
0.1021099984645844,
-0.1290125846862793,
-0.1030500829219818,
0.006443798076361418,
-0.05863768979907036,
-0.04037598147988319,
-0.1138944551348686,
0.07211446762084961,
0.0720137357711792,
-0.1210512146353722,
0.08755607903003693,
0.03454670310020447,
0.0476050078868866,
0.1099587604403496,
-0.1602591276168823,
0.08855044096708298,
0.02996033430099487,
0.09074512869119644,
-0.0001058613997884095,
-0.2476167976856232,
0.04445100575685501,
-0.02698605507612228,
0.01402009278535843,
-0.06718133389949799,
0.06438887119293213,

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-0.1055569276213646,
0.2450158149003983,
0.07835261523723602,
0.02025209739804268,
-0.1351291239261627,
0.1085093468427658,
-0.02905211597681046,
0.03635768592357635,
-0.09950078278779984,
0.01295050885528326,
0.05994055792689323,
-0.07632963359355927,
0.05110764876008034,
-0.02028992958366871,
-0.09950169920921326,
-0.05603926628828049,
0.05858263373374939,
-0.1539228409528732,
0.01994415745139122,
0.01639402285218239,
0.01716926135122776,
-0.03836705163121223,
0.07797840982675553,
0.02707977592945099,
0.1473931074142456,
0.0662926509976387,
0.01988782174885273,
0.02884645573794842,
0.07923990488052368,
0.1627190560102463,
-0.1022889837622643,
0.130669042468071,
0.08311982452869415,
-0.1120589897036552,
0.06340517848730087,

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```
                -0.002032102318480611,
                -0.09534944593906403,
                -0.001494217664003372
            ]
        }
    ],
    "success": true
},
"success": true
}
```

2.3.57.13 CreateRegisteredFace

Create registered face.

Request

Key	Value	Description	Availability
account	<string>	Account.	1 and onward
name	<string>	Name.	1 and onward
description	<string>	Description.	1 and onward
image_data	<string>	Base64 encode of registered face image.	1 and onward
image_size	<integer>	Size of image_data (before encoded).	1 and onward
face	<Face Object>	Selected face from DetectImageFace response.	1 and onward
update_face_group	<Ids Object>	Face group of the target registered face.	1 and onward
captured_face_id	<integer>	Create with captured face.	1 and onward
update_unrecognized_captured_face	<boolean>	Update unknown captured face with created registered face	1 and onward
append_image_data	<boolean>	Append Base64 encode image with created registered face.	1 and onward

<Face Object> Definitions:

Key	Value	Description	Availability
detection	<Detection Object>	Detection of face.	1 and onward
feature	Array of <double>	Feature of target face.	1 and onward

<Detection Object> Definitions:

Key	Value	Description	Availability
conf	<float>	Confidence of the detection.	1 and onward
bbox	<BoundingBox>	Bounding box of detected face	1 and onward
landmark	<Landmark>	Landmark of face.	1 and onward

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<BoundingBox> Definitions:

Key	Value	Description	Availability
bottom_right	<Point>	Bottom right coordinate of detection	1 and onward
top_left	<Point>	Top left coordinate of detection	1 and onward

<Landmark> Definitions:

Key	Value	Description	Availability
left_eye	<Point>	Coordination of left eye	1 and onward
right_eye	<Point>	Coordination of right eye	1 and onward
nose	<Point>	Coordination of nose	1 and onward
mouth_left	<Point>	Coordination of mouth left point	1 and onward
mouth_right	<Point>	Coordination of mouth right point	1 and onward

<Point> Definitions:

Key	Value	Description	Availability
x	<float>	x coordinate of point	1 and onward
y	<float>	y coordinate of point	1 and onward

<Ids Object> Definitions:

Key	Value	Description	Availability
ids	Array of <integer>	Ids list	1 and onward

Example:

```
POST        /webapi/entry.cgi
Form Data
account: "account"
name: "name"
description: "description"
update_unrecognized_captured_face: false
image_data: "/9j/4A...(base64 image data)"
image_size: 30102
face:
{
  "detection":{
    "bbox":{
      "bottom_right":{
        "x":0.7599999904632568,
        "y":0.7142857313156128
```

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```
        },
        "top_left":{
            "x":0.2349999994039536,
            "y":0.2535714209079742
        }
    },
    "conf":0.8656806349754333,
    "landmark":{
        "left_eye":{
            "x":0.3899999856948853,
            "y":0.4142857193946838
        },
        "mouth_left":{
            "x":0.4099999964237213,
            "y":0.5892857313156128
        },
        "mouth_right":{
            "x":0.5950000286102295,
            "y":0.5928571224212646
        },
        "nose":{
            "x":0.5049999952316284,
            "y":0.5142857432365417
        },
        "right_eye":{
            "x":0.6150000095367432,
            "y":0.4178571403026581
        }
    }
},
"feature":[
    0.02810190618038177,
    -0.04223119840025902,
    …(128dims data)
]
```


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```
}
update_face_group: {"ids":[]}
api: SYNO.SurveillanceStation.Face
method: CreateRegisteredFace
version: 1
```

Response

Key	Value	Description	Availability
data	<Result Object>	Information of execution result.	1 and onward
success	<boolean>	Execution success or not.	1 and onward

<Result Object> Definitions:

Key	Value	Description	Availability
error_code	<integer>	Error code of the execution.	1 and onward
success	<boolean>	Execution success or not.	1 and onward
registered_face	<Registered Face Object>	Created registered face.	1 and onward

<Registered Face Object> Definitions:

Key	Value	Description	Availability
id	<integer>	Id of the registered face.	1 and onward
account	<string>	Account name of registered face.	1 and onward
name	<string>	Name of the registered face.	1 and onward
description	<string>	Description the registered face.	1 and onward
image_data	<string>	Base64 encoded image.	1 and onward
face_group_ids	Array of <integer>	Ids of registered face's groups.	1 and onward
face_group_names	Array of <integer>	Names of registered face's groups.	1 and onward
checked	<boolean>	The registered face is checked on the UI or not.	1 and onward

Example:

```
{
  "data":{
    "error_code":0,
    "registered_face":{
      "account":"account",
      "checked":false,
      "description":"description",
      "face_group_ids":[],
      "face_group_names":[],
```

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```
        "id":1049,
        "name":"name"
      },
      "success":true
    },
    "success":true
}
```

2.3.57.14 DeleteRegisteredFace

Delete registered face.

Request

Key	Value	Description	Availability
ids	Array of <integer>	Registered face ids to delete.	1 and onward

Example:

```
GET /webapi/entry.cgi?
ids=[1049]&api=SYNO.SurveillanceStation.Face&method=DeleteRegisteredFace&version=1
```

Response

Key	Value	Description	Availability
data	<Result Object>	Information of execution result.	1 and onward
success	<boolean>	Execution success or not.	1 and onward

<Result Object> Definitions:

Key	Value	Description	Availability
error_code	<integer>	Error code of the execution.	1 and onward
success	<boolean>	Execution success or not.	1 and onward
ids	Array of <integer>	Registered face ids to delete.	1 and onward
registered_faces	Array of <Registered Face Object>	Deleted registered faces.	1 and onward

<Registered Face Object> Definitions:

Key	Value	Description	Availability
id	<integer>	Id of the registered face.	1 and onward
account	<string>	Account name of registered face.	1 and onward
name	<string>	Name of the registered face.	1 and onward
description	<string>	Description the registered face.	1 and onward

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image_data	<string>	Base64 encoded image.	1 and onward
face_group_ids	Array of <integer>	Ids of registered face's groups.	1 and onward
face_group_names	Array of <integer>	Names of registered face's groups.	1 and onward
checked	<boolean>	The registered face is checked on the UI or not.	1 and onward

Example:


```
{
  "data":{
    "error_code":0,
    "ids":[1049],
    "registered_faces":[
      {
        "account":"account",
        "checked":false,
        "description":"description",
        "face_group_ids":[],
        "face_group_names":[],
        "id":1049,
        "name":"name"
      }
    ],
    "success":true
  },
  "success":true
}
```


2.3.57.15 EditRegisteredFace

Edit registered face.

Request

Key	Value	Description	Availability
id	<integer>	Target registered face id	1 and onward
account	<string>	Account.	1 and onward
name	<string>	Name.	1 and onward
description	<string>	Description.	1 and onward
image_data	<string>	Base64 encode of registered face image.	1 and onward
image_size	<integer>	Size of image_data (before encoded).	1 and onward
face	<Face Object>	Selected face from DetectImageFace response.	1 and onward

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update_face_group	<Ids Object>	Face group of the target registered face.	1 and onward
captured_face_id	<integer>	Create with captured face.	1 and onward
update_unrecognized_captured_face	<boolean>	Update unknown captured face with created registered face	1 and onward
append_image_data	<boolean>	Append Base64 encode image with created registered face.	1 and onward

<Face Object> Definitions:

Key	Value	Description	Availability
detection	<Detection Object>	Detection of face.	1 and onward
feature	Array of <double>	Feature of target face.	1 and onward

<Detection Object> Definitions:

Key	Value	Description	Availability
conf	<float>	Confidence of the detection.	1 and onward
bbox	<BoundingBox>	Bounding box of detected face	1 and onward
landmark	<Landmark>	Landmark of face.	1 and onward

<BoundingBox> Definitions:

Key	Value	Description	Availability
bottom_right	<Point>	Bottom right coordinate of detection	1 and onward
top_left	<Point>	Top left coordinate of detection	1 and onward

<Landmark> Definitions:

Key	Value	Description	Availability
left_eye	<Point>	Coordination of left eye	1 and onward
right_eye	<Point>	Coordination of right eye	1 and onward
nose	<Point>	Coordination of nose	1 and onward
mouth_left	<Point>	Coordination of mouth left point	1 and onward
mouth_right	<Point>	Coordination of mouth right point	1 and onward

<Point> Definitions:

Key	Value	Description	Availability
x	<float>	x coordinate of point	1 and onward
y	<float>	y coordinate of point	1 and onward

<Ids Object> Definitions:

Key	Value	Description	Availability
ids	Array of <integer>	Ids list	1 and onward

Example:

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```
POST        /webapi/entry.cgi
Form Data
account: "account"
name: "name"
description: "description"
update_unrecognized_captured_face: false
update_face_group: {"ids":[]}
id: 1048
api: SYNO.SurveillanceStation.Face
method: EditRegisteredFace
version: 1
```

Response

Key	Value	Description	Availability
data	<Result Object>	Information of execution result.	1 and onward
success	<boolean>	Execution success or not.	1 and onward

<Result Object> Definitions:

Key	Value	Description	Availability
error_code	<integer>	Error code of the execution.	1 and onward
success	<boolean>	Execution success or not.	1 and onward
registered_face	<Registered Face Object>	Edited registered face.	1 and onward

<Registered Face Object> Definitions:

Key	Value	Description	Availability
id	<integer>	Id of the registered face.	1 and onward
account	<string>	Account name of registered face.	1 and onward
name	<string>	Name of the registered face.	1 and onward
description	<string>	Description the registered face.	1 and onward
image_data	<string>	Base64 encoded image.	1 and onward
face_group_ids	Array of <integer>	Ids of registered face's groups.	1 and onward
face_group_names	Array of <integer>	Names of registered face's groups.	1 and onward
checked	<boolean>	The registered face is checked on the UI or not.	1 and onward

Example:

```
{
  "data":{
    "error_code":0,
```

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```
      "registered_face":{
        "account":"account",
        "checked":false,
        "description":"description",
        "face_group_ids":[],
        "face_group_names":[],
        "id":1049,
        "name":"name"
      },
      "success":true
    },
    "success":true
  }
```


2.3.57.16 ListRegisteredFace

List registered face.

Request

Key	Value	Description	Availability
id_only	<boolean>	Results only contain id or not.	1 and onward
filter	<Registered Face Filter Object>	Information of filter .	1 and onward
append_image_data	<boolean>	Append Base64 encode image with edited registered face.	1 and onward

<Registered Face Filter Object> Definitions:

Key	Value	Description	Availability
offset	<integer>	Start offset of the query result.	1 and onward
limit	<integer>	Limit of the number of the result.	1 and onward
ids	Array of <integer>	List faces matching the ids.	1 and onward
account	<string>	List faces having substring in the account.	1 and onward
name	<string>	List faces having substring in the name.	1 and onward
description	<string>	List faces having substring in the description.	1 and onward
face_group_ids	Array of <integer>	List faces belong to those face groups.	1 and onward
checked_ids	Array of <integer>	Checked face ids on UI.	1 and onward
keyword	<string>	Keyword in the name or description. Using " " separate multiple string pattern.	1 and onward
order_by	<Order Object>	Information of the order.	1 and onward

<Order Object> Definitions:

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Key	Value	Description	Availability
column	<string>	One of ID, NAME, REGISTERED_FACE_COUNT	1 and onward
order	<string>	One of ASC, DESC	1 and onward

Example:

```
GET /webapi/entry.cgi?filter={"limit"=50,"order_by":
{"column":"ID","order":"ASC"}}&api=SYNO.SurveillanceStation.Face&method=ListRegisteredFace&
version=1
```

Response

Key	Value	Description	Availability
data	<Result Object>	Information of execution result.	1 and onward
success	<boolean>	Execution success or not.	1 and onward

<Result Object> Definitions:

Key	Value	Description	Availability
error_code	<integer>	Error code of the execution.	1 and onward
success	<boolean>	Execution success or not.	1 and onward
registered_faces	Array of <Registered Face Object>	Information of registered faces.	1 and onward
ids	Array of <integer>	Id of registered faces	1 and onward
total	<integer>	Number of registered faces	1 and onward

<Registered Face Object> Definitions:

Key	Value	Description	Availability
id	<integer>	Id of the registered face.	1 and onward
account	<string>	Account name of registered face.	1 and onward
name	<string>	Name of the registered face.	1 and onward
description	<string>	Description the registered face.	1 and onward
image_data	<string>	Base64 encoded image.	1 and onward
face_group_ids	Array of <integer>	Ids of registered face's groups.	1 and onward
face_group_names	Array of <integer>	Names of registered face's groups.	1 and onward
checked	<boolean>	The registered face is checked on the UI or not.	1 and onward

Example:

```
{
  "data":{
    "error_code":0,
    "ids":[1048],
    "registered_faces":[
```

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```
        {
          "account":"account1",
          "checked":false,
          "description":"description",
          "face_group_ids":[],
          "face_group_names":[],
          "id":1048,
          "name":"name1"
        }
      ],
      "success":true,
      "total":1
    },
    "success":true
}
```


2.3.57.17 CountRegisteredFace

Count registered face.

Request

Key	Value	Description	Availability
filter	<Registered Face Filter Object>	Information of filter .	1 and onward

<Registered Face Filter Object> Definitions:

Key	Value	Description	Availability
offset	<integer>	Start offset of the query result.	1 and onward
limit	<integer>	Limit of the number of the result.	1 and onward
ids	Array of <integer>	List faces matching the ids.	1 and onward
account	<string>	List faces having substring in the account.	1 and onward
name	<string>	List faces having substring in the name.	1 and onward
description	<string>	List faces having substring in the description.	1 and onward
face_group_ids	Array of <integer>	List faces belong to those face groups.	1 and onward
checked_ids	Array of <integer>	Checked face ids on UI.	1 and onward
keyword	<string>	Keyword in the name or description. Using " " separate multiple string pattern.	1 and onward
order_by	<Order Object>	Information of the order.	1 and onward

<Order Object> Definitions:

Key	Value	Description	Availability

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column	<string>	One of ID, NAME, REGISTERED_FACE_COUNT	1 and onward
order	<string>	One of ASC, DESC	1 and onward

Example:

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

Response

Key	Value	Description	Availability
data	<Result Object>	Information of execution result.	1 and onward
success	<boolean>	Execution success or not.	1 and onward

<Result Object> Definitions:

Key	Value	Description	Availability
error_code	<integer>	Error code of the execution.	1 and onward
success	<boolean>	Execution success or not.	1 and onward
count	<integer>	Number of registered faces	1 and onward

Example:

```
{
  "data":{
    "error_code":0,
    "success":true,
    "count":1
  },
  "success":true
}
```

2.3.57.18 SearchRegisteredFace

Search registered face.

Request

Key	Value	Description	Availability
keywords	<string>	Information of keywords.	1 and onward
append_image_data	<boolean>	Append Base64 encode image with edited registered face.	1 and onward

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Example:

```
GET /webapi/entry.cgi?api=SYNO.SurveillanceStation.Face&method=SearchRegisteredFace
&version=1&keywords="123"
```

Response

Key	Value	Description	Availability
data	<Result Object>	Information of execution result.	1 and onward
success	<boolean>	Execution success or not.	1 and onward

<Result Object> Definitions:

Key	Value	Description	Availability
error_code	<integer>	Error code of the execution.	1 and onward
success	<boolean>	Execution success or not.	1 and onward
registered_faces	Array of <Registered Face Object>	Information of registered faces.	1 and onward

<Registered Face Object> Definitions:

Key	Value	Description	Availability
id	<integer>	Id of the registered face.	1 and onward
account	<string>	Account name of registered face.	1 and onward
name	<string>	Name of the registered face.	1 and onward
description	<string>	Description the registered face.	1 and onward
image_data	<string>	Base64 encoded image.	1 and onward
face_group_ids	Array of <integer>	Ids of registered face's groups.	1 and onward
face_group_names	Array of <integer>	Names of registered face's groups.	1 and onward
checked	<boolean>	The registered face is checked on the UI or not.	1 and onward

Example:

```
{
  "data":{
    "error_code":0,
    "registered_faces":[],
    "success":true
  },
  "success":true
}
```

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2.3.57.19 API Error Code

Code	Description
400	Operation Failed.
401	Illegal parameters.
553	No face detected.
554	Face detected is too small.
555	Multiple faces detected.
556	The account try to set has exists.
557	No image data appended.
558	Add face group failed.
560	The camera try to apply to face task is occupied by another face task.
561	The number of face profile exceeds the maximum limit.
562	The number of face group exceeds the maximum limit.
563	The face profile is created or edited failed due to duplicated account.
567	The face database is under syncrhonization.

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2.3.58 SYNO.SurveillanceStation.Face.Result

This API provides methods to get result information of face task.

Name	Version	Availability
SYNO.SurveillanceStation.Face.Result	1	Surveillance Station 8.2.8

Method Name	Section	Availability
List	2.3.58.1	1 and onward
Delete	2.3.58.2	1 and onward
Lock	2.3.58.3	1 and onward
Unlock	2.3.58.4	1 and onward
GetEventInfo	2.3.58.5	1 and onward
GetAnalyticsResult	2.3.58.6	1 and onward
Correct	2.3.58.7	1 and onward
MarkAsStranger	2.3.58.8	1 and onward

2.3.58.1 List

Get face result list.

Request

Key	Value	Description	Availability
filter	<Filter Object>	Information of filter	1 and onward
blIncludeSnapshot	<boolean>	Indicate if snapshot should be appended	1 and onward
blIncludeRegisteredFace	<boolean>	Indicate if face profile information should be appended	1 and onward
limit	<integer>	Max number of result list	1 and onward
slaveDsParam	<SlaveDsParam Object>	Parameter for corresponding recording servers	1 and onward

<Filter Object> Definitions:

Key	Value	Description	Availability
offset	<integer>	Start index of face result	1 and onward
limit	<integer>	Max number of result list	1 and onward
ids	Array of <integer>	List of result id	1 and onward
registered_face_id	<integer>	Id of face profile	1 and onward
task_ids	Array of <integer>	List of face task id	1 and onward
task_events	Array of <string>	List of face result event strings, which are consist of UNRECOGNIZED, RECOGNIZED, ALLOWED, BLOCKED, VIP	1 and onward
start_date_ts	<long long integer>	Start utc ms timestamp	1 and onward
end_date_ts	<long long integer>	End utc ms timestamp	1 and onward
start_clock_ms	<integer>	Start ms timestamp in a day	1 and onward
end_clock_ms	<integer>	End ms timestamp in a day	1 and onward
threshold	<double>	Similarity threshold between face result and target	1 and onward

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feature	Array of <double>	Feature of target face	1 and onward
recompare_registered_face_id_	<integer>	Id of target compared face profile	1 and onward
recompare_captured_face_id	<integer>	Id of target compared face result	1 and onward
locked	<boolean>	Indicate if result is locked	1 and onward
ignore_bad_quality	<boolean>	Indicate if ignore bad quality results	1 and onward
max_id	<integer>	Max id of face result	1 and onward
triggering	<boolean>	Indicate if face result is triggering	1 and onward

<SlaveDsParam Object> Definitions:

Key	Value	Description	Availability
start	<integer>	Start index of face results	1 and onward
max_id	<integer>	Max id of face results	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Face.Result"&version="1"&method="List"&blIncludeSnapshot=false&blIncludeRegisteredFace=false&filter={"start_date_ts":1593446400000,
"end_date_ts":1594051200000,"ignore_bad_quality":true}&limit=1&&slaveDsParam={"0":
{"max_id":88731, "start":0}}
```

Response

Key	Value	Description	Availability
data	<Data Object>	Information of execution result.	1 and onward
success	<boolean>	Execution success or not.	1 and onward

<Data Object> Definitions:

Key	Value	Description	Availability
captured_face	Array of <Result Object>	Information of face result list	1 and onward
max id	<integer>	Max id of face result	1 and onward
total	<integer>	Total count of face result	1 and onward
slaveDsParam	<SlaveDsParam Object>	Parameter for corresponding recording servers	1 and onward

<Result Object> Definitions:

Key	Value	Description	Availability
confirmed	<boolean>	Indicate if this result is good quality	1 and onward
start_time	<long long integer>	Start utc ms timestamp of result	1 and onward
end_time	<long long integer>	End utc ms timestamp of result	1 and onward
taken_time	<long long integer>	Utc ms timestamp when result snapshot is taken	1 and onward

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id	<integer>	Id of this result.	1 and onward
locked	<boolean>	Indicate if this result is locked	1 and onward
modified	<boolean>	Indicate if this result is modified	1 and onward
registered_face_id	<integer>	Id of face profile if this result is recognized as a certain profile	1 and onward
similarity	<double>	Similarity if this result is comared with a certain profile or result	1 and onward
task_name	<string>	Task name which this result is generated by	1 and onward
task_id	<integer>	Task id which this result is generated by	1 and onward
triggering	<boolean>	Indicate if this result is triggering	1 and onward
mask_status	<string>	UNKNOWN, UNMASKED, MASKED	1 and onward
event	<string>	UNRECOGNIZED, RECOGNIZED, ALLOWED, BLOCKED, VIP	1 and onward
image_data	<string>	Base64 encode of result snapshot	1 and onward
dsId	<integer>	Id of belonged DS	1 and onward
uniqueId	<string>	Unique id for each result	1 and onward

<SlaveDsParam Object> Definitions:

Key	Value	Description	Availability
start	<integer>	Start index of face result	1 and onward
max_id	<integer>	Max id of face result	1 and onward

Example:


```
{
    "data":{
        "captured_face":[
            {
                "confirmed":true,
                "dsId":0,
                "end_time":1594015770308,
                "event":"UNRECOGNIZED",
                "id":88731,
                "locked":false,
                "mask_status":"UNMASKED",
                "modified":false,
                "registered_face_id":0,
                "similarity":0,
                "start_time":1594015766542,
                "taken_time":1594015770175,
                "task_id":102,
                "task_name":"test",
```


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```
            "triggering":true,
            "uniqueId":"0_88731"
        }
    ],
    "error_code":0,
    "max_id":88731,
    "slaveDsParam": {0: {"max_id": 88731, start: 0}},
    "success":true,
    "total":5397
  },
  "success":true
}
```


2.3.58.2 Delete

Delete face result.

Request

Key	Value	Description	Availability
filter	<Filter Object>	Filter result parameter	1 and onward
slaveDsParam	<SlaveDsParam Object>	Parameter for corresponding recording servers	1 and onward

<Filter Object> Definitions:

Key	Value	Description	Availability
offset	<integer>	Start index of face result	1 and onward
limit	<integer>	Max number of result list	1 and onward
ids	Array of <integer>	List of result id	1 and onward
registered_face_id	<integer>	Id of face profile	1 and onward
task_ids	Array of <integer>	List of face task id	1 and onward
task_events	Array of <string>	List of face result event strings, which are consist of UNRECOGNIZED, RECOGNIZED, ALLOWED, BLOCKED, VIP	1 and onward
start_date_ts	<long long integer>	Start utc ms timestamp	1 and onward
end_date_ts	<long long integer>	End utc ms timestamp	1 and onward
start_clock_ms	<integer>	Start ms timestamp in a day	1 and onward
end_clock_ms	<integer>	End ms timestamp in a day	1 and onward
threshold	<double>	Similarity threshold between face result and target	1 and onward
feature	Array of <double>	Feature of target face	1 and onward
recompare_registered_face_id_	<integer>	Id of target compared face profile	1 and onward

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recompare_captured_face_id	<integer>	Id of target compared face result	1 and onward
locked	<boolean>	Indicate if result is locked	1 and onward
ignore_bad_quality	<boolean>	Indicate if ignore bad quality results	1 and onward
max_id	<integer>	Max id of face result	1 and onward
triggering	<boolean>	Indicate if face result is triggering	1 and onward

<SlaveDsParam Object> Definitions:

Key	Value	Description	Availability
ids	Array of <integer>	List of result id	1 and onward
max_id	<integer>	Max id of face results	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Face.Result"&version="1"&method="Delete"&filter={"ignore_bad_quality
":false,""max_id":89109}&slaveDsParam={"0":{"max_id":89109, "ids":[89109]}}
```

Response

Key	Value	Description	Availability
data	<Data Object>	Information of execution result.	1 and onward
success	<boolean>	Execution success or not.	1 and onward

<Data Object> Definitions:

Key	Value	Description	Availability
captured_face_id	Array of <integer>	Face result ids to delete.	1 and onward
delCnt	<integer>	Deleted count of result	1 and onward
delSizeMb	<integer>	Deleted megabyte of result	1 and onward

Example:

```
{
        "data": {
                "captured_face_id": [],
                "delCnt": 0,
                "delSizeMb": 0
        },
        "success": true
}
```

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2.3.58.3 Lock

Lock face result.

Request

Key	Value	Description	Availability
filter	<Filter Object>	Filter result parameter	1 and onward
slaveDsParam	<SlaveDsParam Object>	Parameter for corresponding recording servers	1 and onward

<Filter Object> Definitions:

Key	Value	Description	Availability
offset	<integer>	Start index of face result	1 and onward
limit	<integer>	Max number of result list	1 and onward
ids	Array of <integer>	List of result id	1 and onward
registered_face_id	<integer>	Id of face profile	1 and onward
task_ids	Array of <integer>	List of face task id	1 and onward
task_events	Array of <string>	List of face result event strings, which are consist of UNRECOGNIZED, RECOGNIZED, ALLOWED, BLOCKED, VIP	1 and onward
start_date_ts	<long long integer>	Start utc ms timestamp	1 and onward
end_date_ts	<long long integer>	End utc ms timestamp	1 and onward
start_clock_ms	<integer>	Start ms timestamp in a day	1 and onward
end_clock_ms	<integer>	End ms timestamp in a day	1 and onward
threshold	<double>	Similarity threshold between face result and target	1 and onward
feature	Array of <double>	Feature of target face	1 and onward
recompare_registered_face_id_	<integer>	Id of target compared face profile	1 and onward
recompare_captured_face_id	<integer>	Id of target compared face result	1 and onward
locked	<boolean>	Indicate if result is locked	1 and onward
ignore_bad_quality	<boolean>	Indicate if ignore bad quality results	1 and onward
max_id	<integer>	Max id of face result	1 and onward
triggering	<boolean>	Indicate if face result is triggering	1 and onward

<SlaveDsParam Object> Definitions:

Key	Value	Description	Availability
ids	Array of <integer>	List of result id	1 and onward
max_id	<integer>	Max id of face results	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Face.Result"&version="1"&method="Lock"&filter={"ignore_bad_quality":
```

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```
false,""max_id":89109}&slaveDsParam={"0":{"max_id":89109, "ids":[89109]}}
```

Response

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

Example:

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

2.3.58.4 Unlock

Unlock face result.

Request

Key	Value	Description	Availability
filter	<Filter Object>	Filter result parameter	1 and onward
slaveDsParam	<SlaveDsParam Object>	Parameter for corresponding recording servers	1 and onward

<Filter Object> Definitions:

Key	Value	Description	Availability
offset	<integer>	Start index of face result	1 and onward
limit	<integer>	Max number of result list	1 and onward
ids	Array of <integer>	List of result id	1 and onward
registered_face_id	<integer>	Id of face profile	1 and onward
task_ids	Array of <integer>	List of face task id	1 and onward
task_events	Array of <string>	List of face result event strings, which are consist of UNRECOGNIZED, RECOGNIZED, ALLOWED, BLOCKED, VIP	1 and onward
start_date_ts	<long long integer>	Start utc ms timestamp	1 and onward
end_date_ts	<long long integer>	End utc ms timestamp	1 and onward
start_clock_ms	<integer>	Start ms timestamp in a day	1 and onward
end_clock_ms	<integer>	End ms timestamp in a day	1 and onward
threshold	<double>	Similarity threshold between face result and target	1 and onward
feature	Array of <double>	Feature of target face	1 and onward
recompare_registered_face_id_	<integer>	Id of target compared face profile	1 and onward
recompare_captured_face_id	<integer>	Id of target compared face result	1 and onward

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locked	<boolean>	Indicate if result is locked	1 and onward
ignore_bad_quality	<boolean>	Indicate if ignore bad quality results	1 and onward
max_id	<integer>	Max id of face result	1 and onward
triggering	<boolean>	Indicate if face result is triggering	1 and onward

<SlaveDsParam Object> Definitions:

Key	Value	Description	Availability
ids	Array of <integer>	List of result id	1 and onward
max_id	<integer>	Max id of face results	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Face.Result"&version="1"&method="Unlock"&filter={"ignore_bad_quality":false,""max_id":89109}&slaveDsParam={"0":{"max_id":89109, "ids":[89109]}}
```

Response

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

Example:

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

2.3.58.5 GetEventInfo

Get information of recording file corresponding to certain face result.

Request

Key	Value	Description	Availability
capturedFaceId	<integer>	Id of face result	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Face.Result"&version="1"&method="GetEventInfo"&capturedFaceId=89582
```

Response

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Key	Value	Description	Availability
data	<Data Object>	Information of return data.	1 and onward
success	<boolean>	Execution success or not	1 and onward

<Data Object> Definitions:

Key	Value	Description	Availability
id	<integer>	Id of face recording	1 and onward
task_id	<integer>	id of corresponding task	1 and onward
video_type	<integer>	0: unknown, 1: mjpeg, 2: mpeg4, 3: h264, 6: h265, 7:h264_plus, 8: h265_plus	1 and onward

Example:


```
{
        "data": {
                "alignerOffset": 233933289,
                "archId": 0,
                "archived": true,
                "audio_format": "PCMU",
                "camIdOnRecServer": 0,
                "cameraId": 1,
                "camera_name": "wdwd",
                "cause": 0,
                "closing": false,
                "comment": "",
                "commentOnHost": "",
                "customLabel": 0,
                "customLabelOnHost": 0,
                "dsId": 0,
                "event_size_bytes": 6291456,
                "fisheye_origin_view": true,
                "for_rotation_only": false,
                "frameCount": 0,
                "id": 16170,
                "idOnRecServer": 0,
                "imgHeight": 1080,
                "imgWidth": 1920,
                "markAsDel": false,
                "mountId": 0,
                "path": "20210527PM/User Define-20210527-210912-1622120952.mp4",
                "reason": 0,
                "recording": false,
                "setting": {
                        "allowed_color": 2,
                        "allowed_list": "",
                        "blocked_color": 4,
```


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```
                    "blocked_list": "",
                    "camera_id": 1,
                    "deleted": false,
                    "det_region":
"0.0,0.0,0.0,1.0,1.0,1.0,1.0,0.0;0.1000,0.9000,0.1000,0.1000,0.9000,0.1000,0.9000,0.9000;0.2000,
0.8000,0.2000,0.2000,0.8000,0.2000,0.8000,0.8000",
                    "det_region_cnt": 1,
                    "display_info": 0,
                    "enable": true,
                    "enable_min_obj_size": false,
                    "enable_schedule": true,
                    "frame_display_info": 1,
                    "id": 12,
                    "id_on_rec_server": 12,
                    "ignore_bad_quality": true,
                    "min_obj_size": 0.2000000029802322,
                    "name": "wdwd",
                    "owner_ds_id": 0,
                    "post_rec_time": 5,
                    "pre_rec_time": 5,
                    "recognized_color": 3,
                    "region_type": 0,
                    "schedule":
"111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111",
                    "similarity": 0.8500000238418579,
                    "stream_profile": 0,
                    "task_id": 5,
                    "trans_flags": 0,
                    "trigger_alert": 127,
                    "unrecognized_color": 8,
                    "vip_color": 1,
                    "vip_list": ""
                },
                "startId": 0,
                "startTime": 1622120952,
                "status_flags": 0,
                "stopTime": 1622120969,
                "systemLabel": 0,
                "systemLabelAttr": {},
                "task_id": 12,
                "task_name": "wdwd",
                "update_time": 0,
                "video_type": 3
```


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```
        },
        "success": true
}
```

2.3.58.6 GetAnalyticsResult

Get recognition information of certain face recording.

Request

Key	Value	Description	Availability
taskId	<integer>	Id of face task	1 and onward
eventId	<integer>	Id of face recording	1 and onward
startTime	<long long integer>	Start utc timestamp	1 and onward
endTime	<long long integer>	End utc timestamp	1 and onward
blIncludeRegisteredFace	<boolean>	Indicate if face profile information should be appended	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Face.Result"&version="1"&method="GetAnalyticsResult"&taskId=102&eventId=468&startTime=1594017058&endTime=1594017068&blIncludeRegisteredFace=true
```

Response

Key	Value	Description	Availability
data	<Data Object>	Information of return data.	1 and onward
success	<boolean>	Execution success or not	1 and onward

<Data Object> Definitions:

Key	Value	Description	Availability
faceResult	Array of <Result>	Face recognition information	1 and onward

<Result> Definitions:

Key	Value	Description	Availability
frameId	<integer>	ms timestamp of this frame from recording start time	1 and onward
timestamp	<long long integer>	utc ms timestamp of this frame	1 and onward
instance	Array of <Recognition>	Recognition list of this frame	1 and onward

<Recognition> Definitions:

Key	Value	Description	Availability
bbox	<BoundingBox>	Bounding box of detected face	1 and onward

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captured_face_id	<integer>	Id of corresponding face result	1 and onward
captured_face	<CapturedFace>	Corresponding face result information	1 and onward
registered_face	<RegisteredFace>	Corresponding face profile information	1 and onward

<BoundingBox> Definitions:

Key	Value	Description	Availability
bottom_right	<Point>	Bottom right coordinate of detection	1 and onward
top_left	<Point>	Top left coordinate of detection	1 and onward

<Point> Definitions:

Key	Value	Description	Availability
x	<float>	x coordinate of point	1 and onward
y	<float>	y coordinate of point	1 and onward

<CapturedFace> Definitions:

Key	Value	Description	Availability
event	<string>	UNRECOGNIZED, RECOGNIZED, ALLOWED, BLOCKED, VIP	1 and onward
id	<integer>	Id of face result	1 and onward

<RegisteredFace> Definitions:

Key	Value	Description	Availability
account	null or <string>	Account of recognized face profile	1 and onward
id	<integer>	Id of recognized face profile	1 and onward
name	null or <string>	Name of recognized face profile	1 and onward

Example:


```
{
    "data":{
        "faceResult":[
            {
                "frameId":5230,
                "instances":[
                    {
                        "bbox":{
                            "bottom_right":{
                                "x":0.8661458492279053,
                                "y":0.9638888835906982
```


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```
                    },
                    "top_left":{
                        "x":0.7786458134651184,
                        "y":0.7740740776062012
                    }
                },
                "captured_face":{
                    "event":"UNRECOGNIZED",
                    "id":93528
                },
                "captured_face_id":93528,
                "registered_face":{
                    "account":null,
                    "id":0,
                    "name":null
                }
            }
        ],
        "timestamp":1594026559836
    },
  ]
},
"success":true
}
```


2.3.58.7 Correct

Correct face result.

Request

Key	Value	Description	Availability
id	<integer>	Id of target face result	1 and onward
registered_face_id	<integer>	Id of face profile which this result is applied to	1 and onward

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Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Face.Result"&version="1"&method="Correct"&id=333&registered_face_id=
15
```

Response

Key	Value	Description	Availability
data	<Data Object>	Information of execution result.	1 and onward
success	<boolean>	Execution success or not.	1 and onward

<Data Object> Definitions:

Key	Value	Description	Availability
captured_face	<Result Object>	Information of face result list	1 and onward

<Result Object> Definitions:

Key	Value	Description	Availability
confirmed	<boolean>	Indicate if this result is good quality	1 and onward
start_time	<long long integer>	Start utc ms timestamp of result	1 and onward
end_time	<long long integer>	End utc ms timestamp of result	1 and onward
taken_time	<long long integer>	Utc ms timestamp when result snapshot is taken	1 and onward
id	<integer>	Id of this result.	1 and onward
locked	<boolean>	Indicate if this result is locked	1 and onward
modified	<boolean>	Indicate if this result is modified	1 and onward
registered_face_id	<integer>	Id of face profile if this result is recognized as a certain profile	1 and onward
similarity	<double>	Similarity if this result is comared with a certain profile or result	1 and onward
task_id	<integer>	Task id which this result is generated by	1 and onward
triggering	<boolean>	Indicate if this result is triggering	1 and onward
mask_status	<string>	UNKNOWN, UNMASKED, MASKED	1 and onward
event	<string>	UNRECOGNIZED, RECOGNIZED, ALLOWED, BLOCKED, VIP	1 and onward

Example:

```
{
    "data":{
        "captured_face":{
            "confirmed":true,
            "end_time":1594023127352,
            "event":"RECOGNIZED",
            "id":93527,
            "locked":false,
```

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```
            "mask_status":"UNMASKED",
            "modified":true,
            "registered_face_id":176,
            "similarity":0,
            "start_time":1594023122993,
            "taken_time":1594023125819,
            "task_id":102,
            "triggering":false
        },
        "error_code":0,
        "success":true
    },
    "success":true
}
```


2.3.58.8 MarkAsStanger

Mark face results as stranger.

Request

Key	Value	Description	Availability
ids	Array of <integer>	Id of target face results	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Face.Result"&version="1"&method="MarkAsStranger"&ids=[93527,93528]
```

Response

Key	Value	Description	Availability
data	<Data Object>	Information of execution result.	1 and onward
success	<boolean>	Execution success or not.	1 and onward

<Data Object> Definitions:

Key	Value	Description	Availability
captured_face	<Result Object>	Information of face result list	1 and onward

<Result Object> Definitions:

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Key	Value	Description	Availability
confirmed	<boolean>	Indicate if this result is good quality	1 and onward
start_time	<long long integer>	Start utc ms timestamp of result	1 and onward
end_time	<long long integer>	End utc ms timestamp of result	1 and onward
taken_time	<long long integer>	Utc ms timestamp when result snapshot is taken	1 and onward
id	<integer>	Id of this result.	1 and onward
locked	<boolean>	Indicate if this result is locked	1 and onward
modified	<boolean>	Indicate if this result is modified	1 and onward
registered_face_id	<integer>	Id of face profile if this result is recognized as a certain profile	1 and onward
similarity	<double>	Similarity if this result is comared with a certain profile or result	1 and onward
task_id	<integer>	Task id which this result is generated by	1 and onward
triggering	<boolean>	Indicate if this result is triggering	1 and onward
mask_status	<string>	UNKNOWN, UNMASKED, MASKED	1 and onward
event	<string>	UNRECOGNIZED, RECOGNIZED, ALLOWED, BLOCKED, VIP	1 and onward

Example:

```
{
        "data": {
                "captured_faces": [
                        {
                                "confirmed": true,
                                "end_time": 1622121993204,
                                "event": "UNRECOGNIZED",
                                "id": 272228,
                                "locked": false,
                                "mask_status": "MASKED",
                                "modified": true,
                                "registered_face_id": 0,
                                "similarity": 0,
                                "start_time": 1622121990066,
                                "taken_time": 1622121992570,
                                "task_id": 12,
                                "triggering": false
                        }
                ],
                "error_code": 0,
                "success": true
        },
        "success": true
}
```

2.3.58.9 API Error Code

Code	Description
400	Operation Failed.

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401	Illegal parameters.
564	The face result try to query doesn't exist.

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2.3.59 SYNO.SurveillanceStation.Recording.Bookmark

This API provides methods to list, save and delete bookmark.

Name	Version	Availability
SYNO.SurveillanceStation.Recording.Bookmark	1	Surveillance Station 8.2.7

Method Name	Section	Availability
SaveBookmark	2.3.59.1	1 and onward
DeleteBookmark	2.3.59.2	1 and onward

2.3.59.1 SaveBookmark

Add new bookmark or edit exist one.

Request

Key	Value	Description	Availability
id	<integer>	Id of the bookmark, 0 means add. O.W means edit	1 and onward
eventId	<integer>	Target event id	1 and onward
cameraId	<integer>	Target event's camera id	1 and onward
archId	<integer>	Target event's archive task id (set to 0 if the event is not in archive vault app)	1 and onward
name	<string>	Bookmark name	1 and onward
timestamp	<timestamp>	Timestamp of the bookmark	1 and onward
comment	<string>	Comment of the bookmark	1 and onward

Example:

```
GET /webapi/entry.cgi?
id=0&eventId=12&cameraId=15&archId=0&name="bookmark_name"&timestamp=1622804136&comment
="COMMENT"&api=SYNO.SurveillanceStation.Recording.Bookmark&method=SaveBookmark&version=1
```

Response

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

Example:

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

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2.3.59.2 DeleteBookmark

Delete bookmark

Request

Key	Value	Description	Availability
bookmarkIds	Array of <integer>	List of result id	1 and onward

Example:

```
GET /webapi/entry.cgi?
api="SYNO.SurveillanceStation.Recording.Bookmark"&version="1"&method="DeleteBookmark"&bookmarkIds=”4,6”
```

Response

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

Example:

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

2.3.59.3 List

The section describes how to use version 5 of ***SYNO.SurveillanceStation.Recording List*** method, to get recording information which also includes the corresponding bookmark detail.

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.	5 and onward
limit	<integer>	*Optional*. Number of recordings to be returned. If not specified, return recordings to the end of recording list.	5 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.	5 and onward
fromTime	<integer>	*Optional*.	5 and onward

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		Query start time. If not specified, the default value is 0.	
toTime	<integer>	*Optional*. Query stop time. If not specified, the default value is 0.	5 and onward

Example:

```
GET /webapi/entry.cgi?
version=6&cameraIds="1,2"&api="SYNO.SurveillanceStation.Recording"&toTime=0&offset=0&limit=80&fromTime=0&method="List"
```

Response

Key	Value	Description	Availability
events	Array of <events>	Information of the queried events.	5
offset	<integer>	The shifted offset in the total result.	5
timestamp	<timestamp>	UTC unix timestamp. The time when the system respond this request.	5
total	<integer>	The number of total recordings.	5 and onward

<events> definition:

Key	Value	Description	Availability
archId	<integer>	Archive task id. 0 means not archive task.	5
audioCodec	<string>	The audio codec of the recording.	5
bookmark	Array of <bookmark>	Information of bookmark.	5
bookmarkCount	<integer>	Bookmark count of this recording.	5
cameraId	<integer>	The belonged camera id of the recording.	5
dsId	<integer>	The owner ds id of queried recordings.	5
folder	<string>	The folder path of the recording file.	5
id	<integer>	The id of the recording.	5
imgHeight	<integer>	The image height of the recording.	5
imgWidth	<boolean>	The image width of the recording.	5
startTime	<timestamp>	Recording start utc timestamp.	5
stopTime	<timestamp>	Recording stop utc timestamp.	5
videoCodec	<string>	The video codec of the recording.	5

<bookmark> definition:

Key	Value	Description	Availability
archId	<integer>	Archive task id. 0 means not archive task.	5
cameraId	<integer>	The belonged camera id of the bookmark.	5
comment	<string>	The comment of the bookmark.	5
eventId	<integer>	The belonged recording id of the bookmark.	5
id	<integer>	The id of the bookmark.	5
name	<string>	The name of the bookmark.	5
timestamp	<timestamp>	The bookmark timestamp of the recording.	5

Example:

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```
{
    "data":{
        "events":[
        {
            "archId":0,
            "audioCodec":"MPEG4-GENERIC",
            "bookmark":[
            {
                "archId":0,
                "cameraId":26,
                "comment":"11",
                "eventId":10336,
                "id":9,
                "name":"New Bookmark",
                "timestamp":1623036448
            },
            {
                "archId":0,
                "cameraId":26,
                "comment":"222",
                "eventId":10336,
                "id":10,
                "name":"New Bookmark2",
                "timestamp":1623036475
            }
            ],
            "bookmarkCount":2,
            "cameraId":26,
            "dsId":0,
            "event_size_bytes":3145728,
            "folder":"/volume2/surveillance/fffffffff_ccc",
            "id":10334,
            "imgHeight":844,
            "imgWidth":1456,
            "startTime":1623036368,
            "stopTime":1623036369,
            "videoCodec":"H.264",
            }
            ],
        "offset":0,
        "timestamp":"1623161204",
        "total":1
    },
"success":true
}
```


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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

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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).
<EVENT_ID>	A unique ID to identify a recorded event. The IDs can be obtained by calling “Query” method of SYNO.SurveillanceStation.Recording (section 2.3.37).
<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).

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