Synology Surveillance API Samples

Release 1.0.0

Synology Inc.

Jan 28, 2021

CONTENTS:

CHAPTER

ONE

WEB API

class webAPI.**WebAPI**(*ip_addr*, *port*, *account*, *password*)

This is a wrapper class which has Synology Surveillance Station Web API methods.

add_bookmark(*recording_id*, *name*, *comment*, *timestamp*)

Add bookmark to a specific recording

Parameters

- **recording_id** – (int) the id of the recording to add bookmark
- **name** – (str) name of the bookmark
- **comment** – (str) comment of the bookmark
- **timestamp** – (int) timestamp for the starting time of the recording

Returns (dict) response from Web API request

add_label_to_recording(*recording_id*, *label_id*)

Add a label to a specific recording in Recording app The type(label_id) for a label setting is by bit position. For example, when you create the first label, it's type is 1, the second is 2, the third is 4, and so on. Therefore, when we want to add labels to a recording, we simply 'bitwise or' all the type(label_id) for each label. Then, use that as customLabel parameter for SaveTag method in SYNO.SurveillanceStation.Recording Web API.

Parameters

- **recording_id** – (int) the id of the recording to add label
- **label_id** – (int) the id of the label

Returns (dict) response from Web API request

clean_labels_on_recording(*recording_id*)

Clean all labels on a specific recording in Recording app

Parameters **recording_id** – (int) the id of the recording

Returns (dict) response from Web API request

create_recording_label(*name*)

Create a new label category on Recording app The type(label_id) for a label setting is by bit position. For example, when you create the first label, it's type is 1, the second is 2, the third is 4, and so on. To add a new category, we have to use SetLabelSetting method in SYNO.SurveillanceStation.Recording Web API. However, when we use this method, we have to give it all the label settings, including the new one and all the other previous ones. As a result, we have to get previous label settings, add a new label setting, then call SetLabelSetting method.

Parameters **name** – (str) name of the label category

Returns (int) label id of the created category

delete_recording_label(*label_id*)
Delete a label category on Recording app

Parameters **label_id** – (int) the id of the label to be deleted

Returns (dict) response from Web API request

download_recording(*recording_id*, *recording_storing_path*)
Download a specific recording We can also use Download method in SYNO.SurveillanceStation.Recording. However, if we use that, we cannot get the timestamp of the recording since its filename is something like: example_recording-20200827-141256.mp4 On the contrast, when we download recording with this method, we can get the timestamp in the end of the filename, such as example_recording-20200827-141256-1598508776.mp4

Parameters

- **recording_id** – (int) the id of the recording to be downloaded
- **recording_storing_path** – (str) path to put the downloaded recording

Returns (str) filename of the downloaded recording

erase_recording_labels()
Erase all label categories on Recording app

Returns (dict) response from Web API request

get_liveview_rtsp(*camera_id*)
Get the rtsp path of a specific camera

Parameters **camera_id** – (int)

Returns (str) rtsp path of the camera

list_cameras()
List all the cameras in the Surveillance Station

Returns (list) list of cameras in the Surveillance Station

list_recordings(*camera_ids=[]*)
List all the recordings in the Surveillance Station. If camera_ids is not given, this method will get recordings from all the cameras in the Surveillance Station.

Parameters **camera_ids** – (list) list of camera_id(int)

Returns (list) list of recordings

login(*account*, *password*)
Login to Surveillance Station

Parameters

- **account** – (str)
- **password** – (str)

Returns (str) session id of this login

logout()
Logout Surveillance Station

Returns (dict) response from Web API request

remove_label_on_recording(*recording_id*, *label_id*)
Remove a label on a specific recording in Recording app

Parameters

- **recording_id** – (int) the id of the recording to remove label
- **label_id** – (int) the id of the label to be removed from the recording

Returns (dict) response from Web API request

send_notification()
Send notification to users. Please follow the setup in live-stream/README.md before you use this method.

Returns (dict) response from Web API request

send_request(*api*, *payload*, *request_type*)
Send request to call Web API

Parameters

- **api** – (str) the API to be called
- **payload** – (dict) the parameters for the desired API method
- **request_type** – (int) GET_REQUEST or POST_REQUEST

Returns (dict) response from Web API request

start_action_rule_recording()
Start action Rule Recording from a specific camera. Please follow the setup in live-stream/README.md before you use this method.

Returns (dict) response from Web API request

PYTHON MODULE INDEX

W

INDEX