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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	
8.0	2012/05/30	info.cgi for non-login users.	Claire	
	2212/27/21		Huang	
0.9	2012/05/31	Modify SYNO.API.Auth.	Claire	
	2212/22/21		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	
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			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	Pei-Wen Wu	
		2. Add privilege parameter for List, ListGroup in		
		SYNO.Surveillance.Camera		
1.5	2014/05/20	1. SYNO.Surveillance.Camera	Pei-Wen Wu	
		- 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		
1.6	2014/05/21	Replace"SS"with"Surveillance Station"	Kai Wang	
1.7	2014/06/12	1. Add sections	Pei-Wen Wu	
		- 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		

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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"	Josh Lin
		2. Add "Custom Recording"	
		3. Add audio out caps in GetCapability and	
		GetCapabilityByCamId	
2.0	2015/3/13	Add Document of Following APIs	Chuan-Che
2.0	2013/3/13	Door	Yen
		Camera.Event	Bismarck
		Camera	Hsu
		Event	Ben Tsai
		Camera.Wizard	Dell Isal
		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	
2.1	2015/10/16	Update calling examples using entry.cgi	Chuan-Che
	2013, 10, 10	Space caming examples doing entry rog.	Yen
		Request	
		Info	
		Camera Enable	
		External Recording Addons GetUpdateInfo	
2.2	2015/12/16	·	Chuan Cha
2.2	2015/12/16	Update calling example which refer to _sid	Chuan-Che
		Add Day was take ADI #5	Yen
	2215/5/5	Add Document the API "External Event"	1
2.3	2016/3/9	Correct old version webapi path	Septem Hsu
		Add example of PTZ webapi GoPreset method	

. 0,			
		Update description of Camera webapi	
		SaveOptimizeParam method	
	15/2/22		
2.4	16/3/23	Add document of following APIs	Chuan-Che
		• IOModule	Yen
		IOModule.search	Septem Hsu
			David Lai
		Add document of following methods	
		 SYNO.SurveillanceStation.Camera 	
		 GetStmUrlPath 	
		SYNO.SurveillanceStation.Notification	
		 SetAdvSetting 	
		 GetAdvSetting 	
		SYNO.SurveillanceStation.Log	
		GetSetting	
		SetSetting	
2.5	16/7/28		Jack
2.5	10///28	Rename following APIs • Event → Recording	Jack
		• 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	
2.6	47/4/44	SYNO.API.Auth	 _
2.6	17/1/11	Rename following methods	Terry
		SYNO.SurveillanceStation.Camera	
		○ GetStmUrlPath → GetLiveViewPath	
		SYNO.SurveillanceStation.Recording	
		○ DeleteMulti → Delete	
		Modify request/response parameter of following	
		methods	
		SYNO.SurveillanceStation.Camera	
		∘ List	
		o Enable	
		o Disable	

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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	
		o Stream	
		Remove following methods	
		SYNO.SurveillanceStation.Recording	
		EventFlushHeader	
2.7	17/9/8	Add document of following APIs	James Chan
2.7	17/9/0	SYNO.SurveillanceStation.HomeMode	Kayle Chang
		GetInfo	Rayle Chang
		• Switch	
		SYNO.SurveillanceStation.Transactions.Device	
		• Enum	
		SYNO.SurveillanceStation.Transactions.Transac	
		tion	
		○ Enum	
		○ Lock	
		○ Unlock	
		○ Delete	
		○ Begin	
		○ Complete	
		○ Cancel	
		 AppendData 	
2.8	18/7/5	Add document of following methods	Blake Lin
		 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	
		111101410	

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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	hungchengl
	_, , -	SYNO.SurveillanceStation.Archiving.Pull	
		○ SaveTask	
		DeleteTask	
		○ ListTask	
		EnableTask	
		DisableTask	
		BatchEditTask	
		 GetBatchEditProgress 	
		 BatchEditProgressDone 	
		LoginSourceDS	
3	18/12/28	Modify document of following methods	Saipher
	10, 12, 20	SYNO.SurveillanceStation.SnapShot	Salphier
		• List	
		SYNO.SurveillanceStation.Camera	
		MDParamSave	
		SYNO.SurveillanceStation.License	
		Load	
3.1	19/1/9	Add document of following methods	Saipher
5.1		SYNO.SurveillanceStation.YoutubeLive	32.6.10.
		Load	
		○ Save	
		CloseLive	
		CIOSCLIVE	

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	Alan Lyu
		SetSetting Add desument of following methods	
		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.	
3.4	20/3/17	Add document of following APIs	Star Chen
		SYNO.SurveillanceStation.IVA	
		ListTask	
		 GetCount 	
3.5	20/3/23	Add document of following APIs	David Lai
		SYNO.SurveillanceStation.Recording	
		 RangeExport 	
		 GetRangeExportProgress 	
		 OnRangeExportDone 	
3.6	20/10/28	Modify document of following methods	Ruby Lin
		SYNO.API.Auth	
		○ logout	
3.7	21/5/31	Add document of of following APIs	Septem Hsu
		SYNO.SurveillanceStation.Face	
	<u> </u>	SYNO.SurveillanceStation.Face.Result	
3.8	21/6/2	Modify document of following APIs	Leon Luo
		SYNO.SurveillanceStation.IVA	
		SYNO.SurveillanceStation.IVA.Report	
		Add document of of following APIs	
		SYNO.SurveillanceStation.IVA.Recording	
	24/6/4	SYNO.SurveillanceStation.IVA.TaskGroup	0. 0.
3.9	21/6/4	Add document of of following APIs	Star Chen
		SYNO.SurveillanceStation.Recording.Bookmark Sava Basalana ark	
		SaveBookmark Delate Beelmanth	
		 DeleteBookmark 	

		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

Table of Contents

1.	. Overview	21
2.	. Surveillance Station Web API Specification	22
	2.1 Concept	22
	2.1.1 API Definition	22
	2.1.2 Operation flow	23
	2.2 Request & Response Structure	24
	2.2.1 Request	
	2.2.2 Response	
	2.2.3 Common API Error Code	
	2.3 API List	
	2.3.1 SYNO.API.Info	
	2.3.1.1 Query method	
	2.3.2 SYNO.API.Auth	
	2.3.2.1 login method	
	2.3.2.2 logout method	
	2.3.2.3 API Error Code	
	2.3.3 SYNO.SurveillanceStation.Info	
	2.3.3.1 GetInfo method	
	2.3.3.2 API Error Code	
	2.3.4 SYNO.SurveillanceStation.Camera	
	2.3.4.1 Save method	
	2.3.4.2 List method	
	2.3.4.3 GetInfo method	
	2.3.4.4 ListGroup method	
	2.3.4.5 GetSnapshot method	
	2.3.4.6 Enable method	
	2.3.4.7 Disable method	
	2.3.4.8 GetCapabilityByCamId method	
	2.3.4.9 MigrationEnum method	
	2.3.4.10 Migrate method	
	2.3.4.11 CountByCategory method	
	2.3.4.12 RecountEventSize method	
	2.3.4.14 CotOccurriedSico method	
	2.3.4.14 GetOccupiedSize method	
	2.3.4.15 CheckCamValid method	
	2.3.4.16 MigrationCancel method	68

2.3.4.17 Delete method	68
2.3.4.18 GetLiveViewPath method	69
2.3.4.19 API Error Code	70
2.3.5 SYNO.Surveillance.Camera.Event	71
2.3.5.1 AudioEnum method	71
2.3.5.2 AlarmEnum method	72
2.3.5.3 TamperingEnum method	73
2.3.5.4 MDParamSave method	74
2.3.5.5 MotionEnum method	75
2.3.5.6 ADParamSave method	77
2.3.5.7 DIParamSave method	77
2.3.5.8 AlarmStsPolling method	78
2.3.5.9 TDParamSave method	79
2.3.5.10 API Error Code	80
2.3.6 SYNO.SurveillanceStation.Camera.Group	81
2.3.6.1 Enum method	81
2.3.6.2 Save method	83
2.3.6.3 Delete method	84
2.3.6.4 API Error Code	84
2.3.7 SYNO.SurveillanceStation.Camera.Import	
2.3.7.1 Save method	85
2.3.7.2 ArchiveCamEnum method	90
2.3.7.3 ArchiveEnum method	91
2.3.7.4 API Error Code	91
2.3.8 SYNO.SurveillanceStation.Camera.Wizard	93
2.3.8.1 CheckSDCardSize method	93
2.3.8.2 CheckQuota method	94
2.3.8.3 CamBarAddSaveAll method	94
2.3.8.4 FormatSDCard method	96
2.3.8.5 QuickCreate method	96
2.3.8.6 API Error Code	102
2.3.9 SYNO.SurveillanceStation.PTZ	103
2.3.9.1 Move method	103
2.3.9.2 Zoom method	104
2.3.9.3 ListPreset method	104
2.3.9.4 GoPreset method	105
2.3.9.5 ListPatrol method	106
2.3.9.6 RunPatrol method	107
2.3.9.7 Focus method	108

	2.3.9.8 Iris method	.108
	2.3.9.9 AutoFocus method	.109
	2.3.9.10 AbsPtz method	.109
	2.3.9.11 Home method	.110
	2.3.9.12 AutoPan method	.110
	2.3.9.13 ObjTracking method	.110
	2.3.9.14 API Error Code	.111
2.	3.10 SYNO.SurveillanceStation.ExternalRecording	.112
	2.3.10.1 Record method	.112
	2.3.10.2 API Error Code	.112
2.	3.11 SYNO.SurveillanceStation.Recording	.113
	2.3.11.1 List method	.113
	2.3.11.2 Delete method	.115
	2.3.11.3 DeleteFilter method	.116
	2.3.11.4 DeleteAll method	.117
	2.3.11.5 ApplyAdvanced method	.118
	2.3.11.6 CountByCategory method	.118
	2.3.11.7 Keepalive method	.121
	2.3.11.8 Trunc method	.121
	2.3.11.9 LoadAdvanced method	.122
	2.3.11.10 LockFilter method	.122
	2.3.11.11 UnLock method	.123
	2.3.11.12 UnLockFilter method	.124
	2.3.11.13 Lock method	.125
	2.3.11.14 Download method	.125
	2.3.11.15 CheckEventValid method	.126
	2.3.11.16 Stream method	.127
	2.3.11.17 RangeExport method	.129
	2.3.11.18 GetRangeExportProgress method	.129
	2.3.11.19 OnRangeExportDone method	.130
	2.3.11.20 API Error Code	.130
2.	3.12 SYNO.SurveillanceStation.Recording.Export	.132
	2.3.12.1 Load method	.132
	2.3.12.2 CheckName method	.133
	2.3.12.3 CamEnum method	.134
	2.3.12.4 CheckAvailableExport method	.135
	2.3.12.5 Save method	.136
	2.3.12.6 GetEvtExpInfo method	.137
	2.3.12.7 API Error Code	.138

2.3.13 SYNO.SurveillanceStation.Recording.Mount	139
2.3.13.1 Load method	139
2.3.13.2 API Error Code	143
2.3.14 SYNO.SurveillanceStation.CMS	144
2.3.14.1 Redirect method	144
2.3.14.2 ModifySharePriv method	145
2.3.14.3 ApplyOption method	145
2.3.14.4 GetInfo method	147
2.3.14.5 DoSyncData method	149
2.3.14.6 CheckSambaEnabled method	150
2.3.14.7 BatCheckSambaService method	151
2.3.14.8 GetMDSnapshot method	151
2.3.14.9 GetCMSStatus method	152
2.3.14.10 EnableSamba method	152
2.3.14.11 NotifyCMSBreak method	153
2.3.14.12 LockSelf method	153
2.3.14.13 API Error Code	154
2.3.15 SYNO.SurveillanceStation.CMS.GetDsStatus	155
2.3.15.1 EnableCMS method	155
2.3.15.2 UnPair method	156
2.3.15.3 GetFreeSpace method	157
2.3.15.4 Lock method	157
2.3.15.5 Test method	159
2.3.15.6 Logout method	160
2.3.15.7 Pair method	161
2.3.15.8 Login method	163
2.3.15.9 API Error Code	166
2.3.16 SYNO.SurveillanceStation.CMS.SlavedsWizard	167
2.3.16.1 Save method	167
2.3.16.2 API Error Code	168
2.3.17 SYNO.SurveillanceStation.CMS.SlavedsList	169
2.3.17.1 Load method	169
2.3.17.2 API Error Code	175
2.3.18 SYNO.SurveillanceStation.Log	176
2.3.18.1 CountByCategory method	176
2.3.18.2 Clear method	179
2.3.18.3 List method	180
2.3.18.4 GetSetting method	184
2.3.18.5 SetSetting method	185

2.3.18.6 AP	PI Error Code	.186
2.3.19 SYNO.S	SurveillanceStation.License	.187
2.3.19.1 Lo	ad method	.187
2.3.19.2 Ch	eckQuota method	.188
2.3.19.3 AP	PI Error Code	.189
2.3.20 SYNO.S	SurveillanceStation.Stream	.190
2.3.20.1 Ev	entStream method	.190
2.3.20.2 AP	PI Error Code	.190
2.3.21 SYNO.S	SurveillanceStation.ActionRule	.191
2.3.21.1 Sa	ve method	.191
2.3.21.2 Do	ownloadHistory method	.195
2.3.21.3 Se	ndData2Player method	.195
2.3.21.4 De	eleteHistory method	.195
2.3.21.5 Lis	t method	.196
2.3.21.6 Dis	sable method	.197
2.3.21.7 En	able method	.198
2.3.21.8 Lis	tHistory method	.198
2.3.21.9 De	elete method	.200
2.3.21.10 A	API Error Code	.200
2.3.22 SYNO.S	SurveillanceStation.Emap	.201
2.3.22.1 Lis	t method	.201
2.3.22.2 Lo	ad method	.205
2.3.22.3 AP	PI Error Code	.210
2.3.23 SYNO.S	SurveillanceStation.Emap.Image	.211
2.3.23.1 Lo	ad method	.211
2.3.23.2 AP	PI Error Code	.211
2.3.24 SYNO.S	SurveillanceStation.Notification	.212
2.3.24.1 Ge	etRegisterToken method	.212
2.3.24.2 Se	tCustomizedMessage method	.213
2.3.24.3 Ge	etCustomizedMessage method	.213
2.3.24.4 Se	tVariables method	.214
2.3.24.5 Ge	etVariables method	.214
2.3.24.6 Se	tAdvSetting method	.215
2.3.24.7 Ge	etAdvSetting method	.215
2.3.24.8 AP	PI Error Code	.216
2.3.25 SYNO.S	SurveillanceStation.Notification.SMS	.217
2.3.25.1 Se	ndTestMessage method	.217
2.3.25.2 Ge	etSetting method	.218
2.3.25.3 Se	tSetting method	.219

	2.3.25.4	API Error Code	221
2.3	3.26 SYN	O.SurveillanceStation.Notification.PushService	222
	2.3.26.1	SendTestMessage method	222
	2.3.26.2	GetSetting method	223
	2.3.26.3	SetSetting method	224
	2.3.26.4	SendVerificationMail method	225
	2.3.26.5	ListMobileDevice method	225
	2.3.26.6	UnpairMobileDevice method	226
	2.3.26.7	API Error Code	226
2.3	3.27 SYN	O.SurveillanceStation.Notification.Schedule	227
	2.3.27.1	GetAccessControlControllerSchedule method	227
	2.3.27.2	GetCameraAlarmSchedule method	229
	2.3.27.3	GetSystemDEpendentSchedule method	230
	2.3.27.4	SetBatchSchedule method	232
	2.3.27.5	GetAccessControlDoorSchedule method	233
	2.3.27.6	GetCameraSchedule method	234
	2.3.27.7	SetSystemDependentSchedule method	235
	2.3.27.8	SetAccessControlSchedule method	237
	2.3.27.9	SetCameraSchedule method	238
	2.3.27.10	O API Error Code	240
2.3	3.28 SYN	O.SurveillanceStation.Notification.Email	241
	2.3.28.1	GetSetting method	241
	2.3.28.2	SendTestMail method	242
	2.3.28.3	SetSetting method	243
	2.3.28.4	API Error Code	244
2.3	3.29 SYN	O.SurveillanceStation.Notification.Filter	245
	2.3.29.1	Set method	245
	2.3.29.2	Get method	245
	2.3.29.3	API Error Code	248
2.3	3.30 SYN	O.SurveillanceStation.Notification.SMS.ServiceProvider	249
	2.3.30.1	Create method	249
	2.3.30.2	Set method	250
	2.3.30.3	List method	250
	2.3.30.4	Delete method	251
	2.3.30.5	API Error Code	252
2.3	3.31 SYN	O.SurveillanceStation.Addons	253
	2.3.31.1	GetUpdateInfo method	253
	2.3.31.2	Enable method	254
	2.3.31.3	CheckUpdateInfo method	255

	2.3.31.4 GetInfo method	.256
	2.3.31.5 List method	.257
	2.3.31.6 Update method	.260
	2.3.31.7 CheckEnableDone method	.261
	2.3.31.8 Disable method	.262
	2.3.31.9 SetAutoUpdate method	.263
	2.3.31.10 API Error Code	.263
2.	3.32 SYNO.SurveillanceStation.Alert	.264
	2.3.32.1 RecServerClear method	.264
	2.3.32.2 EventCount method	.265
	2.3.32.3 ClearSelected method	.266
	2.3.32.4 Clear method	.266
	2.3.32.5 Enum method	.267
	2.3.32.6 RecServerEnum method	.271
	2.3.32.7 Unlock method	.273
	2.3.32.8 Trigger method	.275
	2.3.32.9 EventFlushHeader method	.275
	2.3.32.10 Lock method	.276
	2.3.32.11 RecServerEventCount method	.277
	2.3.32.12 API Error Code	.278
2.	3.33 SYNO.SurveillanceStation.Alert.Setting	.279
	2.3.33.1 Save method	.279
	2.3.33.2 API Error Code	.280
2.	3.34 SYNO.SurveillanceStation.SnapShot	.281
	2.3.34.1 ChkFileExist method	.281
	2.3.34.2 Edit method	.282
	2.3.34.3 CountByCategory method	.285
	2.3.34.4 ChkContainLocked method	.287
	2.3.34.5 UnlockFiltered method	.288
	2.3.34.6 List method	.289
	2.3.34.7 Unlock method	.294
	2.3.34.8 TakeSnapshot method	.295
	2.3.34.9 GetSetting method	.296
	2.3.34.10 DeleteFiltered method	.297
	2.3.34.11 LoadSnapshot method	.298
	2.3.34.12 Lock method	.298
	2.3.34.13 Download method	.299
	2.3.34.14 LockFiltered method	.299
	2.3.34.15 SaveSetting method	.300

2.3.34.16 Save method	301
2.3.34.17 ChkSnapshotValid method	303
2.3.34.18 Delete method	304
2.3.34.19 API Error Code	304
2.3.35 SYNO.SurveillanceStation.VisualStation	305
2.3.35.1 Enable method	305
2.3.35.2 ReqNetConfig method	306
2.3.35.3 Edit method	307
2.3.35.4 Lock method	308
2.3.35.5 Enum method	309
2.3.35.6 Unlock method	311
2.3.35.7 Disable method	312
2.3.35.8 Delete method	313
2.3.35.9 API Error Code	313
2.3.36 SYNO.SurveillanceStation.VisualStation.Layout	314
2.3.36.1 Enum method	314
2.3.36.2 Save method	317
2.3.36.3 Delete method	319
2.3.36.4 API Error Code	320
2.3.37 SYNO.SurveillanceStation.VisualStation.Search	321
2.3.37.1 Start method	321
2.3.37.2 SearchIP method	322
2.3.37.3 Stop method	323
2.3.37.4 InfoGet method	324
2.3.37.5 API Error Code	327
2.3.38 SYNO.SurveillanceStation.AxisAcsCtrler	328
2.3.38.1 GetUpdateInfo method	328
2.3.38.2 CountByCategoryCardHolder method	329
2.3.38.3 EnumLogConfig method	330
2.3.38.4 GetCardholderPhoto method	331
2.3.38.5 CountByCategoryLog method	332
2.3.38.6 EnumCardHolder method	334
2.3.38.7 RetrieveLastCard method	336
2.3.38.8 EnableCtrler method	337
2.3.38.9 AckAlarm method	338
2.3.38.10 SaveLogConfig method	339
2.3.38.11 Save method	339
2.3.38.12 DownloadLog method	340
2.3.38.13 GetDoorNames method	341

2.3.38.14 TestConnect method	342
2.3.38.15 Enum method	343
2.3.38.16 SaveCardHolder method	348
2.3.38.17 ListDoor method	349
2.3.38.18 ClearLog method	350
2.3.38.19 ListPrivilege method	351
2.3.38.20 DoorControl method	353
2.3.38.21 SavePrivilege method	353
2.3.38.22 ListLog method	354
2.3.38.23 Delete method	359
2.3.38.24 Retrieve method	360
2.3.38.25 BlockCardHolder method	360
2.3.38.26 CountByCategory method	361
2.3.38.27 API Error Code	361
2.3.39 SYNO.SurveillanceStation.AxisAcsCtrler.Search	363
2.3.39.1 Start method	363
2.3.39.2 InfoGet method	363
2.3.39.3 API Error Code	364
2.3.40 SYNO.SurveillanceStation.DigitalOutput	365
2.3.40.1 Enum method	365
2.3.40.2 Save method	366
2.3.40.3 PollState method	367
2.3.40.4 API Error Code	367
2.3.41 SYNO.SurveillanceStation.ExternalEvent	368
2.3.41.1 Trigger method	368
2.3.41.2 API Error Code	368
2.3.42 SYNO.SurveillanceStation.IOModule	369
2.3.42.1 Enum method	369
2.3.42.2 EnumPort method	375
2.3.42.3 EnumVendorModel method	380
2.3.42.4 Save method	381
2.3.42.5 Enable method	383
2.3.42.6 Disable method	383
2.3.42.7 Delete method	383
2.3.42.8 TestConn method	
2.3.42.9 GetCap method	384
2.3.42.10 PortSetting method	387
2.3.42.11 PollingDI method	388
2.3.42.12 PollingDO method	389

390
391
392
393
393
393
394
395
395
396
397
397
398
400
400
401
401
402
403
403
404
405
406
408
408
409
409
410
410
410
411
412
412
412
414
415
415
418
419

2.3.50.1 Enum	419
2.3.50.2 Lock	423
2.3.50.3 Unlock	424
2.3.50.4 Delete	426
2.3.50.5 Begin	427
2.3.50.6 Complete	427
2.3.50.7 Cancel	428
2.3.50.8 AppendData	429
2.3.50.9 API Error Code	429
2.3.51 SYNO.SurveillanceStation.Archiving.Pull	430
2.3.51.1 SaveTask	431
2.3.51.2 LoginSourceDS	432
2.3.51.3 DeleteTask	443
2.3.51.4 ListTask	444
2.3.51.5 EnableTask	447
2.3.51.6 DisableTask	447
2.3.51.7 BatchEditTask	448
2.3.51.8 GetBatchEditProgress	449
2.3.51.9 BatchEditProgressDone	449
2.3.51.10 API Error Code	450
2.3.52 SYNO.SurveillanceStation.YoutubeLive	451
2.3.52.1 Load	452
2.3.52.2 Save	453
2.3.52.3 CloseLive	453
2.3.53 SYNO.SurveillanceStation.IVA	455
2.3.53.1 ListTask	455
2.3.53.2 SaveTask	461
2.3.53.3 DeleteTask	469
2.3.53.4 EnableTask	470
2.3.53.5 DisableTask	471
2.3.53.6 ResetPplCntCounter	471
2.3.53.7 API Error Code	472
2.3.54 SYNO.SurveillanceStation.IVA.Report	473
2.3.54.1 GetCount	473
2.3.54.2 GetReport	474
2.3.55 SYNO.SurveillanceStation.IVA.Recording	477
2.3.55.1 List	477
2.3.55.2 Delete	480
2.3.55.3 GetAnalyticsResult	481

	2.3.55.4 Lock	.489
	2.3.55.5 Unlock	.489
2.	3.56 SYNO.SurveillanceStation.IVA.TaskGroup	.491
	2.3.56.1 List	.491
	2.3.56.2 Create	.493
	2.3.56.3 Edit	.494
	2.3.56.4 Delete	.496
	2.3.56.5 Enable	.496
	2.3.56.6 Disable	.497
	2.3.56.7 GetPeopleCount	.498
	2.3.56.8 ResetPeopleCount	.498
2.	3.57 SYNO.SurveillanceStation.Face	.500
	2.3.57.1 ListTask	.500
	2.3.57.2 SaveTask	.504
	2.3.57.3 DeleteTask	.508
	2.3.57.4 EnableTask	.509
	2.3.57.5 DisableTask	.509
	2.3.57.6 ListPlayableTask	.510
	2.3.57.7 CreateFaceGroup	.511
	2.3.57.8 DeleteFaceGroup	.512
	2.3.57.9 EditFaceGroup	.514
	2.3.57.10 ListFaceGroup	.515
	2.3.57.11 CountFaceGroup	.517
	2.3.57.12 DetectImageFace	.518
	2.3.57.13 CreateRegisteredFace	.525
	2.3.57.14 DeleteRegisteredFace	.529
	2.3.57.15 EditRegisteredFace	.530
	2.3.57.16 ListRegisteredFace	.533
	2.3.57.17 CountRegisteredFace	.535
	2.3.57.18 SearchRegisteredFace	.536
	2.3.57.19 API Error Code	.538
2.	3.58 SYNO.SurveillanceStation.Face.Result	.539
	2.3.58.1 List	.539
	2.3.58.2 Delete	.542
	2.3.58.3 Lock	.544
	2.3.58.4 Unlock	.545
	2.3.58.5 GetEventInfo	.546
	2.3.58.6 GetAnalyticsResult	.549
	2.3.58.7 Correct	.551

2.3.58.8 MarkAsStanger	553
2.3.58.9 API Error Code	
2.3.59 SYNO.SurveillanceStation.Recording.Bookmark	556
2.3.59.1 SaveBookmark	556
2.3.59.2 DeleteBookmark	557
2.3.59.3 List	557
3. Resources	560
Appendix: Valid values	561

1. Overview

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



Figure 1-1 Surveillance Station Web API architecture

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

2. Surveillance Station Web API Specification

2.1 Concept

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

2.1.1 API Definition

Every API will define the following items:

Name

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

URL path

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

Method

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

Version

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

2.1.2 Operation flow

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

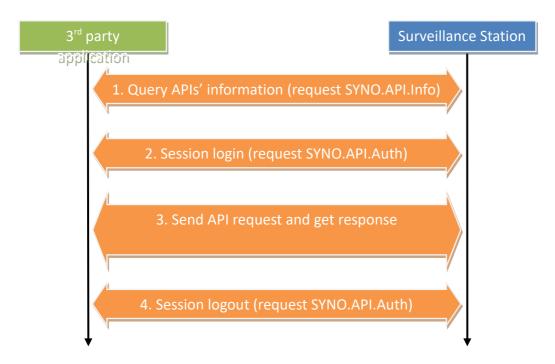


Figure 2-1 Operation flow of Web API

Step 1. Query APIs' information

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

Step 2. Session login

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

Step 3. Send API request and get response

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

Step 4. Session logout

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

2.2 Request & Response Structure

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

2.2.1 Request

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

Usage:

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

Tag	Description	
<url_path></url_path>	API's URL path	
<api></api>	Name of the API	
<method></method>	THOD > Name of the API method	
<version></version>	The version of API	
<session_id> Optional, the designate session ID. See 2.3.2</session_id>		
<param_list></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></boolean>	Whether this request is successful or not.

data	<result object=""></result>	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=""></error>	Optional. It will return the error info if this request fails.

<Error Object> Definitions:

Attribute	Value	Description
code	<integer></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

2.2.3 Common API Error Code

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

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

2.3 API List

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

API Name	Description	Section
SYNO.API.Info	Discover all API information	2.3.1
SYNO.API.Auth	Perform session login and logout	2.3.2
SYNO.SurveillanceStation.Info	Retrieve Surveillance Station-related general information	2.3.3
SYNO.SurveillanceStation.Camera	Retrieve camera-related information	2.3.4
SYNO.SurveillanceStation.PTZ	Perform camera PTZ actions	2.3.9
SYNO.SurveillanceStation.ExternalRecording	Control external recording of cameras	2.3.10
SYNO.SurveillanceStation.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.

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,	 ALL: Get information of all available APIs. 	1 and onward
	<string></string>	 <string>: The list of <api query="" unit=""> to be queried</api></string> 	
		concatenated by ",".	

<API Query Unit> definition:

Notation	Value	Description	Availability
<api query="" unit=""></api>	<api name="" query="">,</api>	Unit of API query target. It could be full name of an	1 and onward
	<api prefix="" query=""></api>	API, or prefix of APIs.	
<api name="" query=""></api>	<string></string>	Full name of API to be queried. Must be in	1 and onward
		"SYNO.XXX.YYY" format.	
		Ex: SYNO.API.Auth.	
<api prefix="" query=""></api>	<string></string>	Prefix of APIs to be queried. Must be in "SYNO.XX."	1 and onward
		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.	

Example:

Get information of SYNO.SurveillanceStation.Camera

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

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

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

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

```
GET /webapi/query.cgi? api=SYNO.API.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></string>	The string of API name	1 and onward
path	<string></string>	The string of URL path	1 and onward
minVersion	<integer></integer>	The minimum supported API version	1 and onward
maxVersion	<integer></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",
```

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

2.3.2 SYNO.API.Auth

API used to perform session login and logout.

API Name	Version	Availability
SYNO.API.Auth	1	DSM 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></string>	Login account name	1 and onward
passwd	<string></string>	Login account password	1 and onward
session	<string></string>	Optional.	1 and onward
		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.	
enable_syno_token	<string></string>	Optional.	3 and onward
		Return synotoken if value is "yes".	
format	cookie, sid	Optional.	2 and onward
		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."	
otp_code	<integer></integer>	Optional.	3 and onward
		6-digit OTP code.	
enable_device_to	<string></string>	Optional.	6 and onward
ken		yes or no, default to no.	

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

Example1:

GET /webapi/auth.cgi?

api=SYNO. API. Auth&method=login&version=1&account=admin&passwd=123456&session=SurveillanceStation

Example2:

GET /webapi/auth.cgi?

api=SYNO. API. Auth&method=login&version=2&account=admin&passwd=123456&session=SurveillanceStation&format=sid

Response

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

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

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).	

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).

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

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

<Version Object> definition:

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

Example:

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

2.3.3.2 API Error Code

Code Description

400	Execution failed.
-----	-------------------

2.3.4 SYNO.SurveillanceStation.Camera

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

API Name	Version	Availability
SYNO.SurveillanceStation.Camera	iera 1 Surveillance Station 6.0-233	
	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></camera_id>	Optional.	9 and onward
		Camera id to be edited.	
		If equal to 0, add new camera according to	
		request parameter.	
name	<string></string>	Optional.	9 and onward
		Camera name to be edited. Note that this	
		parameter is only valid when "id" is not specified	
		and "dsld" is specified.	

dsId	<integer></integer>	Optional.	9 and onward
		Camera owner ds id.	
newName	<string></string>	Optional (Needed when add case).	9 and onward
		Camera new name.	
ip	<string></string>	Optional (Needed when add case).	9 and onward
		Camera ip.	
port	<integer></integer>	Optional (Needed when add case).	9 and onward
		Camera port.	
vendor	<string></string>	Optional (Needed when add case).	9 and onward
		Camera vendor.	
model	<string></string>	Optional (Needed when add case).	9 and onward
		Camera model.	
userName	<string></string>	Optional (Needed when add case).	9 and onward
		Camera login user name.	
password	<string></string>	Optional (Needed when add case).	9 and onward
		Camera login password.	
videoCodec	<integer></integer>	Optional.	9 and onward
		Camera video codec.	
		• 0 - Unknown	
		1 - MJPEG2 - MPEG4	
		• 3 - H264	
		• 5 - MXPEG	
		• 6 - H265	
		• 7 - H264+	
audioCodec	<integer></integer>	Optional.	9 and onward
	, integer	Camera audio codec.	
		0 - Unknown	
		• 1 - PCM	
		• 2 - G711	
		• 3 - G726	
		• 4 - AAC	
		• 5 - AMR	
		• 6 - UserDefine (use only with user define	
		camera)	
tvStandard	<integer></integer>	Optional.	9 and onward
		Camera tv standard.	
		• 1 - NTSC	
		• 2 - PAL	

channel	<string></string>	Optional.	9 and onward
		Camera channel.	
userDefinePath	<string></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></string>	Optional. Camera field of view.	9 and onward
streamXX	<stream object="" setting=""></stream>	Optional. XX – Stream number.	9 and onward
recordTime	<integer></integer>	Optional. The recording length in minute.	9 and onward
preRecordTime	<integer></integer>	Optional. Extra recording time before the start of each recording in second.	9 and onward
postRecordTime	<integer></integer>	Optional. Extra recording time after the end of each recording in second.	9 and onward
enableRecordingKeepDays	<boolean></boolean>	Optional. Does the rotation occur when the limit time is reached.	9 and onward
recordingKeepDays	<integer></integer>	Optional. The upper bound indicating how long a file can be store before rotation.	9 and onward
enableRecordingKeepSize	<boolean></boolean>	Optional. Does the rotation occur when the limit space is reached.	9 and onward
recordingKeepSize	<integer></integer>	Optional. The upper bound that total file size can reach before rotation.	9 and onward
enableLowProfile	<boolean></boolean>	Optional. Does low bandwidth profile enabled.	9 and onward
recordSchedule	Array of <integer></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

Synology Surveillance Station Web API

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

<Stream Setting Object> definition:

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

Example1: Adding camera with specific vendor, model.

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

api=SYNO. Surveillance Station. Camera & method = "Save" & version = 9 & new Name = "test" & vendor = "ABUS" & model = "TVIP72500" & ip = "192.168.1.2" & port = 80 & user Name = "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?

 $api="SYNO.SurveillanceStation.Camera" \& method="Save" \& version=9 \& name="test" \& dsId=0 \& stream1= \{"resolution": "1920x1080", "fps": 15\}$

Response

Key	Value	Description	Availability
id	<camera_id></camera_id>	The add/edit camera id.	9 and onward
camera	<camera list="" object=""></camera>	The detail information of add/edit	9 and onward
		camera.	

2.3.4.2 List method

Get the list of all cameras.

Request

Parameter	Value	Description	Availability
idList	<string></string>	Optional. The list of <camera_id> to be queried concatenated by ",".</camera_id>	9 and onward
offset	<integer></integer>	Optional. The offset to be shifted in the total result. If not specified, the offset will be 0.	9 and onward
limit	<integer></integer>	Optional. Number of cameras to be returned. If not specified, return cameras to the end of camera list.	9 and onward
blFromCamList	<boolean></boolean>	Optional Indicating if the caller is from cam list Set to be false if not specified.	9 and onward
blincludeDeletedCam	<boolean></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></boolean>	Optional Indicating to show basic settings or not set to be false if not specified	9 and onward
streamInfo	<boolean></boolean>	Optional Indicating to show streaming information or not set to be false if not specified	9 and onward
blPrivilege	<boolean></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 O: 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&api="SYNO.SurveillanceStation.Camera"&limit=2&basic=true&blFromCamList=true&camStm=1&method="List=true&camStm=1&me

Response

Key	Value	Description	Availability
total	<integer></integer>	The number of total installed cameras.	9 and onward
cameras	Array of <camera list<="" td=""><td>The list of queried cameras.</td><td>9 and onward</td></camera>	The list of queried cameras.	9 and onward
	Object>		

<Camera List Object> definition:

Key	Value	Description	Availability
DONum	<integer></integer>	Digital output number	9 and onward
DINum	<integer></integer>	Digital input number	9 and onward
audioCodec	<integer></integer>	Camera audio codec.	9 and onward
		0 - Unknown	
		• 1 - PCM	
		• 2 - G711	
		• 3 - G726	
		• 4 - AAC	
		• 5 - AMR	
		6 - UserDefine (use only with user	
		define camera)	
channel	<string></string>	Camera channel id	9 and onward
dsId	<integer></integer>	The id of the owner of this camera	9 and onward
enableLowProfile	<boolean></boolean>	Does low bandwidth profile enabled.	9 and onward
fov	<string></string>	Field of view of the camera	9 and onward
streamXX	<stream setting<="" td=""><td>XX – Stream number.</td><td>9 and onward</td></stream>	XX – Stream number.	9 and onward
	object>		
status	1 18	Indicating the camera status	9 and onward
		• 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	
ip	<string></string>	IP address of the camera	9 and onward
id	<camera_id></camera_id>	Camera ID	9 and onward

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

```
"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,
```

```
"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
```

}

2.3.4.3 GetInfo method

Get specific camera settings.

Request

Parameter	Value	Description	Availability
cameralds	<string></string>	The list of <camera_id> to be queried concatenated by ",".</camera_id>	From 1 to 8
privCamType	0 15	Optional. Weighted sum indicated the types of the camera Ox00: NONE Ox01: LIVEVIEW Ox02: PLAYBACK Ox04: LENS	From 1 to 8
blincludeDeletedCam	<boolean></boolean>	0x08: AUDIO Optional.	From 4 to 8
		Is deleted cameras included	
basic	<boolean></boolean>	Optional. Is basic information included	From 4 to 8
streamInfo	<boolean></boolean>	Optional. Is stream information included	From 4 to 8
optimize	<boolean></boolean>	Optional. Is optimization information included	From 4 to 8
ptz	<boolean></boolean>	Optional. Is PTZ information included	From 4 to 8
eventDetection	<boolean></boolean>	Optional. Is event detection information included	From 4 to 8
deviceOutCap	<boolean></boolean>	Optional. Is information of device output capability included	From 4 to 8
fisheye	<boolean></boolean>	Optional. Is fisheye information included	From 4 to 8
camAppInfo	<boolean></boolean>		From 4 to 8

Example: Get camera information

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

version = "8"& cameralds = "89"& blInclude Deleted Cam = true & device Out Cap = true & stream Info = true & method = "GetInfo" & api = "SYNO. Surveillance Station. Camera" & ptz = true & basic = true & priv Cam Type = 3 & cam App Info = true & optimize = true & fisheye = true & event Detection = true & optimize = true & fisheye = true & event Detection = true & optimize = true & optim

Response

Key	Value	Description	Availability
cameras	Array of <camera< td=""><td>The list of all queried cameras.</td><td>From 1 to 8</td></camera<>	The list of all queried cameras.	From 1 to 8
	Information Object>		

< Camera Information Object> definition:

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

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

	Object>		
isStatusUnrecognized	<boolean></boolean>	Is status of the camera unrecognized	From 4 to 8
is_rotated_by_date	<boolean></boolean>	Indicating if the replacing strategy "rotation_by_date" is enabled	From 4 to 8
is_rotated_by_space	<boolean></boolean>	Indicating if the replacing strategy "rotation_by_space" is enabled	From 4 to 8
model	<string></string>	Model name of the Camera	From 4 to 8
multiDI	<boolean></boolean>	Is there multi digital input	From 4 to 8
mute	<boolean></boolean>	Is the camera mute	From 4 to 8
name	<string></string>	Name of the camera	From 4 to 8
objTrack	<boolean></boolean>	Is the camera with capability of object tracking	From 4 to 8
osd_format	0 3	Indicating the format of OSD is O: NON 1: DATE 2: TIME 3: TEXT	From 4 to 8
osd_position	<integer></integer>	The position of osd	From 4 to 8
osd_status	<boolean></boolean>	Is the OSD on/off	From 4 to 8
ownerDsId	<integer></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 Ox00: NONE Ox01: TIME_SERVER Ox02: VIDEO_MIRROR Ox04: VIDEO_FLIP Ox08: VIDEO_ROTATE Ox10: EXPOSURE_CONTROL Ox20: EXPOSURE_MODE Ox40: OSD_TIMESTAMP	From 4 to 8
port	<integer></integer>	Port of the camera	From 4 to 8
presetNum	<integer></integer>	The maximal number of preset regions for the PTZ camera	From 4 to 8
ptzCap	<integer></integer>	Capability of PTZ camera	From 4 to 8
ptzContinuous	<integer></integer>	Is PTZ moving in continuous mode	From 4 to 8
ptzDirection	<integer></integer>	The number of directions PTZ camera supports	From 4 to 8
quality	<string></string>	Quality of the recording stream	From 4 to 8
recBitrateCtrl	0, 1, 2	Indicating the bitrate of recording stream	From 4 to 8
recCbrBitrate	<integer></integer>	A constant indicating the bitrate	From 4 to 8
recStatus	<integer></integer>	Indicating the recording method	From 4 to 8
resolution	<string></string>	Resolution of the camera	From 4 to 8
rotation_by_date	<integer></integer>	The parameter for replacement strategy	From 4 to 8
rotation_by_space	<string></string>	The parameter for replacement strategy	From 4 to 8
rotation_option	<integer></integer>	The recording option when rotation occurs	From 4 to 8
setDICap	<boolean></boolean>	Does camera have the capability of digital input	From 4 to 8
		Does camera have the capability of digital	1

		output	
singleStream	<boolean></boolean>	Does the camera provide only single	From 4 to 8
		stream	
snapshot_path	<string></string>	The path for obtaining snapshop	From 4 to 8
status	<integer></integer>	Indicating the status of the camera • 0: ENABLED	From 4 to 8
		• 1: DISABLED	
		• 2: ACCTIVATING	
		3: DISABLING	
		4: RESTARTING	
		• 5: UNKNOWN	
status_flags	<integer></integer>	Flags of the camera status	From 4 to 8
	0 18	Type of the Fisheye camera	
stmFisheyeType	0 18	0: NONE	From 4 to 8
		• 1: VIVOTEK	
		• 2: MOBOTIX	
		• 3: PIXORD	
		• 4: AXIS	
		• 5: DLINK	
		6: GEOVISION	
		7: PANASONIC	
		8: BRICKCOM	
		• 9: ACTI	
		• 10: ACTI_KCM	
		• 11: ACTI_IS1	
		• 12: SAMSUNG	
		• 13: 3S	
		• 14: SONY	
		• 15: ONCAMGRANDEYE	
		• 16: MOBOTIX_Q25M	
		• 17: A_MTK	
atus info	A was a set of the same	• 18: SENTRY	From 4 to 8
stm_info	Array of <stream information="" object=""></stream>	Information of each stream profile Length of Array is 3.	170111 4 10 8
	iniorniation object/	Array[0]: High quality stream profile.	
		Array[1]: Balanced stream profile.	
		Array[2]: Low bandwidth stream profile.	
profileSettingList	<string></string>	Stream profile of each functionality	From 4 to 8
		concatenated by ",".	
		Functionality in order:	
		Liveview	
		• Mobile	
		Recording Stream - continuous	
		Recording Stream - motion detection	
		Recording Stream - customize1	
		Recording Stream - customize2	
		• (deprecated)	
		• (deprecated)	
		• (deprecated)	

		Recording Stream - edge	
		• (deprecated)	
		Liveview dynamic switch profile	
		Advanced recording	
		Video analysis	
time_server	<string></string>	The NTP server	From 4 to 8
tvStandard	0,	Indicating the TV Standard	From 4 to 8
	1,	0: NTSC	
	2	• 1: PAL	
		• 2: NONE	
type	<integer></integer>	Type of the camera	From 4 to 8
update_time	<integer></integer>	The last update time in timestamp	From 4 to 8
vendor	<string></string>	Vendor of the camera	From 4 to 8
videoCapList	Array of <video< td=""><td>List of the video capability</td><td>From 4 to 8</td></video<>	List of the video capability	From 4 to 8
	Capability Object>		
video_flip	<boolean></boolean>	Is the video flip	From 4 to 8
video_mirror	<boolean></boolean>	Is the video mirror	From 4 to 8
video_rotation	<integer></integer>	Is the video rotated	From 4 to 8
volume	<integer></integer>	Size of the volume	From 4 to 8
volume_space	<string></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	From 4 to 8
		0: UNKNOWN	
		• 1: PCM	
		• 2: G711	
		• 3: G726	
		• 4: AAC	
		• 5: AMR	
camChannel	<string></string>	Channel of the output video	From 4 to 8
camFolder	<string></string>	Folder to store configuration and video	From 4 to 8
camFov	<string></string>	Field of view of the camera	From 4 to 8
camFps	<integer></integer>	The fps of recording stream	From 4 to 8
camIP	<string></string>	IP address of the camera	From 4 to 8
camIsRotByDate	<boolean></boolean>	Does the rotation occur when the limit time	From 4 to 8
		is reached	
camIsRotBySpace	<boolean></boolean>	Does the rotation occur when the limit space	From 4 to 8
		is reached	
camLiveBitrateCtrl	0,	Indicating the bitrate of live stream	From 4 to 8
	1,	0: NONE	
	2	• 1: Variable	
		2: Constant	
camLiveCbrBitrate	<integer></integer>	A constant indicating the bitrate	From 4 to 8
camLiveFps	<integer></integer>	The fps of live stream	From 4 to 8
camLiveMode	0,	Determining the source of live view	From 4 to 8
	1	• 0: DS	
		• 1: Camera	
camLiveQuality	<string></string>	The quality of live stream	From 4 to 8

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

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

<Fisheye Region Object> definition:

Key	Value	Description	Availability
camId	<integer></integer>	Camera ID	From 4 to 8
id	<integer></integer>	Region ID	From 4 to 8
name	<string></string>	Name of the Region	From 4 to 8
posX	<integer></integer>	X-coordinate value of the dewarping region	From 4 to 8
posY	<integer></integer>	Y-coordinate value of the dewarping region	From 4 to 8
regions	Array of <fisheye object="" sub-region=""></fisheye>	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

		2: FISHEYE_DOUBLE_PANORAMA 3. FIGURE TRUBE TO MESTA	
		3: FISHEYE_TRIPLE_VIEW4: FISHEYE_QUAD_VIEW	
		• 5: FISHEYE_SUB_REGION	
		6: FISHEYE_SUB_PANORAMA	
zoom	<integer></integer>	Zoom value	From 4 to 8

<Fisheye Sub-region Object> definition:

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

<Image Enhancement Object> definition:

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

Example: Get camera information response.

```
"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. Surveillance Station. Camera \& method = GetSnapshot \& version = 1 \& camerald = 70 \times 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": "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,
```

```
"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":
"customAlarmDetect": 3.
```

```
"camLiveFps": 10,
       "camChannel": "1",
       "camRotOption": 0.
       "camQuality": "5",
       "camPrefix": "P5415-E-001",
       "edgeStgRetrieveAction": 2,
       "camSchedule":
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",
       "camVideoType": "H.264",
       "camMobileBitrateCtrl": 1,
       "MdDetSrc": 0.
       "camServer": 0,
       "camFolder": "P5415-E-001",
       "edgeStgRecDays": 127,
       "camPort": 80,
       "camRtspProtocol": 4,
       "camName": "P5415-E-0011",
       "camAudioType": 4
     },
     "enabled": true,
     "analyticsSens": 1,
     "analyticsWidth": 0,
     "recCbrBitrate": 1000,
     "blPresetSpeed": false,
     "DONum": 0,
     "id": 70.
     "setDOCap": false,
     "analyticsFrame": true,
     "analyticsLine": false,
     "daybegin": 8,
     "fps": 10,
     "status": 1,
     "update_time": 1424919129,
     "exposure_mode": 4,
     "time server": "",
     "rotation option": 0,
     "presetNum": 32,
     "camStatus": 9,
     "analyticsDwellTime": 5.
     "camPath":
"cnRzcDovL3Jvb3Q6bmF0bWFzdGVyQDEwLjEzLjEyLjE2NTo1NTQvYXhpcy1tZWRpYS9tZWRpYS5hbXA/Y2FtZ
XJhPTEmdmlkZW9jb2RlYz1oMjY0JnJlc29sdXRpb249ODAweDQ1MCZmcHM9MTAmdmlkZW9rZXlmcmFtZWl
udGVydmFsPTEwJmNvbXByZXNzaW9uPTIw",
     "model": "P5415-E",
```

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

2.3.4.4 ListGroup method

Get all camera group information.

Request

Parameter	Value	Description	Availability
offset	<integer></integer>	Optional.	From 1 to 8
		The offset to be shifted in the total result.	
		If not specified, the offset will be 0.	
limit	<integer></integer>	Optional.	From 1 to 8
		Number of camera groups to be returned.	
		If not specified, return camera groups to the end of	
		camera group list.	

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></integer>	The number of total camera groups.	From 1 to 8
offset	<integer></integer>	The shifted offset in the total result.	From 1 to 8
cameraGroups	Array of <camera group="" object=""></camera>	The camera group list.	From 1 to 8

<Camera Group Object> definition:

Key	Value	Description	Availability
id	<camera_group_id></camera_group_id>	Unique camera group ID.	From 1 to 8
name	<string></string>	Camera group name.	From 1 to 8
cameralds	Array of <camera_id></camera_id>	The list of camera ID within this group.	From 1 to 8
description	<string></string>	The description of the camera group.	From 1 to 8
privilege	<integer></integer>	The user privilege about this camera group. Use bit operation to get the privilege. Ox01: liveview Ox02: playback Ox04: lens Ox08: audio	From 4 to 8

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

```
"id": 1,
                         "name": "Group 1F",
                        "cameralds": [10,11,12],
                        "description": "The camera group of 1F cameras",
                         "privilege": 10
                }, {
                        "id": 2,
                        "name": "Group 2F",
                        "cameralds": [13,14,15],
                         "description": "The camera group of 2F cameras",
                        "privilege": 3
                }, {
                        "id": 3,
                        "name": "Group 3F",
                        "cameralds": [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></camera_id>	Unique camera ID.	9 and onward
name	<string></string>	Optional.	9 and onward
		The name of queried camera. This parameter only valid when "id" is not specified and "dsId" is specified.	
dsId	<integer></integer>	Optional. The owner ds id of queried camera. Used only combined with "name" parameter.	9 and onward
profileType	<integer></integer>	Optional. Profile type of selected camera. Default value is 1.	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.

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></string>	The list of <camera_id> to be queried concatenated by ",".</camera_id>	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></string>	The list of <camera_id> to be queried concatenated by ",".</camera_id>	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

Example: Get capability of camera which id is 90

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

api="SYNO.SurveillanceStation.Camera"&version="8"&camerald=90&method="GetCapabilityByCamId"

Response

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

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

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

2.3.4.9 MigrationEnum method

Enumerates current status of migration

Request

Parameter	Value	Description	Availability
start	<integer></integer>	The beginning of the enumeration list	From 7 to 8
limit	<integer></integer>	Amount of the events for showing	From 7 to 8
ownerDsId	<integer></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
	Array of <migration info="" object=""></migration>	Information of each listed migration event	From 7 to 8
total	, , , , , , , , , , , , , , , , , , , 	The total number of events in the database	From 7 to 8

<Migration Info Object> definition:

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

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

```
{
    "status": -1,
    "to": 1,
    "rotation_by_space": "0",
    "from": 0,
    "name": "iPUX",
    "progress": 10.0,
    "ip": "10.13.11.195",
    "is_rotated_by_space": false,
    "occupied": "0",
    "id": 1
    }
}
```

2.3.4.10 Migrate method

Migrating Cameras and recorded video (optional) to specified DS

Request

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

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></integer>	The starting offset in the list of cameras	From 7 to 8
limit	<integer></integer>	The number of cameras to show	From 7 to 8

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<="" td=""><td>List of camera counts categorized by brand</td><td>From 7 to 8</td></group>	List of camera counts categorized by brand	From 7 to 8
	Object>		
cam_device	Array of <group status<="" td=""><td>The list of camera counts categorized by devic</td><td>From 7 to 8</td></group>	The list of camera counts categorized by devic	From 7 to 8
	Object>		
cam_group	Array of <group status<="" td=""><td>The list of camera counts categorized by user</td><td>From 7 to 8</td></group>	The list of camera counts categorized by user	From 7 to 8
	Object>	defined groups	
cam_status	Array of <group status<="" td=""><td>The list of camera counts categorized by camera</td><td>From 7 to 8</td></group>	The list of camera counts categorized by camera	From 7 to 8
	Object>	status	
server	Array of <group status<="" td=""><td>The list of camera counts categorized by owner</td><td>From 7 to 8</td></group>	The list of camera counts categorized by owner	From 7 to 8
	Object>	DS	
total	<integer></integer>	The amount of cameras	From 7 to 8

<Group Status Object> definition:

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

```
"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.

Request

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

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

Example:

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

 $vdoMirror=true\&camParamChkList=1\&version="8"\&vdoRotation=false\&vdoFlip=true\&osdPosition=0\&exp\\Mode=0\&timeServer="pool.ntp.org"\&cameralds=28\&api="SYNO.SurveillanceStation.Camera"\&osdStatus=false\&osdFormat=0\&dayEnd=18\&expCtrl=2\&method="SaveOptimizeParam"\&dayBegin=8$

Response

Key	Value	Description	Availability
id	<integer></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></string>	The list of <camera_id> to be queried</camera_id>	From 7 to 8
		concatenated by ",".	

Example:

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

api="SYNO.SurveillanceStation.Camera"&camIdList="46,48"&version="8"&method="GetOccupiedSize"

Response

Key	Value	Description	Availability
ID	<string></string>	This field is actually replaced by camera ID	From 7 to 8
		dynamically, as a consequence the result for	
		example should be {"46":"0.260","48":"0.050"}	

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
camerald	<camera_id></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"&camerald=27&method="CheckCamValid"
```

Response

Key	Value	Description	Availability
categEntryVal	<string></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

Request

Parameter	Value	Description	Availability
tasklds	<string></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></string>	The list of <camera_id> to be queried</camera_id>	9 and onward
		concatenated by ",".	
keepRecording	<boolean></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></string>	The list of <camera_id> to be queried</camera_id>	9 and onward
		concatenated by ",".	

Example:

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

Response

Key	Value	Description	Availability
data	Array of <pathinfo< td=""><td>Detail path information of quried cameras.</td><td>9 and onward</td></pathinfo<>	Detail path information of quried cameras.	9 and onward
	Object>		

<PathInfo Object> definition:

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

```
"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&camerald=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"
     }
   ]
```

}

2.3.4.19 API Error Code

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

2.3.5 SYNO.Surveillance.Camera.Event

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

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

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

2.3.5.1 AudioEnum method

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

Request

Parameter	Value	Description	Availability
camId	<camera_id></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=""></adparam>	The audio detection parameters.	4 and onward

<ADParam Object> Definition:

Key	Value	Description	Availability
keep	<boolean></boolean>	Define the keep the camera original setting.	4 and onward
source	<integer></integer>	Define the detection source. e.g1:disable,	4 and onward
		0:by_camera.	
level	<level object=""></level>	The level's detail informations.	4 and onward

<Level Object> Definition:

Key	Value	Description	Availability
сар	<boolean></boolean>	Define if support the level detection argument.	4 and onward
minValue	<integer></integer>	Define the minimum value of level.	4 and onward
maxValue	<integer></integer>	Define the maximun value of level.	4 and onward
value	<integer></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></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< td=""><td>The updated alarm setting list.</td><td>4 and onward</td></alarmsettinglist<>	The updated alarm setting list.	4 and onward
	Object>		

<AlarmSettingList Object> Definition:

Key	Value	Description	Availability
keep	<boolean></boolean>	Define the keep the camera original setting.	4 and onward
idx	<integer></integer>	The index of alarm.	4 and onward
normal	"	l e	4 and onward
		0:open_circuit, 1:ground_circuit.	

```
{
   "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></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=""></tdparam>	The tampering detection parameters.	4 and onward

<TDParam Object> Definition:

Key	Value	Description	Availability
keep	<boolean></boolean>	Define the keep the camera original setting.	4 and onward
source	<integer></integer>	Define the detection source. e.g1:disable, 0:by_camera.	4 and onward
duration	<duration object=""></duration>	The duration's detail informations.	4 and onward

<Duration Object> Definition:

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

```
{
    "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></camera_id>	The selected camera id.	4 and onward
source	<integer></integer>	Optional.	4 and onward
		Define the detection source. e.g1:disable,	
		0:by_camera and 1:by_surveillance.	
mode	<integer></integer>	Optional.	4 and onward
		Define the keep thie camera original setting.	
		e.g. 0:keep camera setting and 1:not keep	
		camera setting.	
sensitivity	<integer></integer>	Optional.	4 and onward
		Define the sensitivity number.	
threshold	<integer></integer>	Optional.	4 and onward
		Define the threshold number.	
objectSize	<integer></integer>	Optional.	4 and onward
		Define the object size you want to detect.	
percentage	<integer></integer>	Optional.	4 and onward
		Define the percentage number.	

Example:

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

object Size = 50 & source = 0 & camId = 16 & version = "1" & api = "SYNO. Surveillance Station. Camera. Event "& threshold = 20 & sensitivity = 90 & percentage = 50 & method = "MDP aram Save" & mode = 1

Response

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

```
{
  "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></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=""></mdparam>	The motion detection parameters.	4 and onward

<MDParam Object> Definition:

Key	Value	Description	Availability
keep	<boolean></boolean>	Define the keep the camera original setting.	4 and onward
source	<integer></integer>	Define the detection source. e.g1:disable,	4 and onward
		0:by_camera, 1:by_surveillance.	
sensitivity	<sensitivity object=""></sensitivity>	The sensitivity's detail informations.	4 and onward
threshold	<threshold object=""></threshold>	The threshold's detail informations.	4 and onward
objectSize	<objectsize object=""></objectsize>	The objectSize's detail informations.	4 and onward
percentage	<percentage object=""></percentage>	The percentage's detail informations.	4 and onward

<Threshold Object> Definition:

Key	Value	Description	Availability
camCap	<boolean></boolean>	Define if camera support the threshold	4 and onward
		detection argument.	
ssCap	<boolean></boolean>	Define if surveillance station support the	4 and onward
-		threshold detection argument.	
minValue	<integer></integer>	Define the minimum value of threshold.	4 and onward

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

<ObjectSize Object> Definition:

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

<Percentage Object> Definition:

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

```
"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,
```

Synology Surveillance Station Web API

```
"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></camera_id>	The selected camera id.	4 and onward
source	<integer></integer>	Optional.	4 and onward
		Define the detection source. e.g1:disable,	
		0:by_camera and 1:by_surveillance.	
keep	<boolean></boolean>	Optional.	4 and onward
		Define the keep thie camera original setting.	
level	<integer></integer>	Optional.	4 and onward
		Define the level number.	

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=""></camera>	The selected camera id.	4 and onward

Example:

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

2.3.5.7 DIParamSave method

Save digital input parameters. e.g. normal

Request

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

Example:

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

Response

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

< AlarmStateList Object> Definition:

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

 $http://192.168.1.1:5000/webapi/entry.cgi?camId=280\&version="1"\&list=[\{"trigger": 0, "idx": 0\}]\&api="SYNO.SurveillanceStation.Camera.Event"\&timeOut=5000\&method="AlarmStsPolling" | 1.5000/webapi/entry.cgi?camId=280\&version="1"&list=[\{"trigger": 0, "idx": 0$

Response

Key	Value	Description	Availability
list	Array of <alarmstatelist></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></camera_id>	The selected camera id.	4 and onward
source	<integer></integer>	Optional.	4 and onward
		Define the detection source. e.g1:disable,	
		0:by_camera.	
keep	<boolean></boolean>	Optional.	4 and onward
		Define the keep thie camera original setting.	
duration	<integer></integer>	Optional.	4 and onward
		Define the duration number.	

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></camera_id>	The selected camera id.	4 and onward

```
{
```

```
"camld": 280
}
```

2.3.5.10 API Error Code

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

2.3.6 SYNO.SurveillanceStation.Camera.Group

This API provides operations for camera groups

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

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

2.3.6.1 Enum method

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

Request

Parameter	Value	Description	Availability
privCamType	<integer></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< td=""><td>The list of all groups.</td><td>4 and onward</td></allcamgrpinfo<>	The list of all groups.	4 and onward
	Object>		
data	Array of <data object=""></data>	The group list in the seleted privilege and	4 and onward
		the camera list in this group.	

<allCamGrpInfo Object> definition:

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

<data Object> definition:

Key	Value	Description	Availability
CamList	Array of <camlist object=""></camlist>	The camera list of the group.	4 and onward
dsId	<integer></integer>	The DS ID of the group.	4 and onward

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

<CamList Object> definition:

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

```
"data": {
  "allCamGrpInfo": [
     {
       "dsId": 0,
       "id": 1,
       "uniqueld": "0 1",
       "name": "GrpName"
    }
  ],
  "data": [
       "name": "GrpName",
       "uniqueld": "0 1",
       "camList": [
            "status": 1,
            "dsStatus": 0,
            "ip": "192.168.0.1",
            "camIdOnRecServer": 0,
            "dsName": "Local",
            "resolution": "640x480",
             "preview":
"/webapi/_
                                                                              entry.cgi?
api=SYNO. Surveillance Station. Camera \& method = GetSnapshot",\\
             "dsId": 0,
            "id": 9,
             "name": "CameraName"
          }
       ],
       "dsId": 0,
```

```
"id": 1,
    "desc": "GrpDesc"
    }
]
```

2.3.6.2 Save method

Save the specific groups.

Request

Parameter	Value	Description	Availability
groupList	Array of <grouplist< td=""><td>The Saved group list.</td><td>4 and onward</td></grouplist<>	The Saved group list.	4 and onward
	Object>		

<allCamGrpInfo Object> definition:

Key	Value	Description	Availability
camList	Array of <camlist object=""></camlist>	The camera list of the group.	4 and onward
id	<integer></integer>	The group ID	4 and onward
name	<string></string>	The name of the group.	4 and onward
desc	<string></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=""></grouplist>	The Saved group list.	4 and onward

Synology Surveillance Station Web API

```
}
],
"desc": "GrpDesc",
"id": 9,
"name": "GrpName"
}
]
```

2.3.6.3 Delete method

Delete the specific groups.

Request

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

Example:

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

Response

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

2.3.6.4 API Error Code

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

2.3.7 SYNO.SurveillanceStation.Camera.Import

This API provides operations for importing camera

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

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

2.3.7.1 Save method

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

Request

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

< CamImportList Object> definition:

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

```
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< td=""><td>The detail object of camera information</td><td>4 and onward</td></camera<>	The detail object of camera information	4 and onward
	Information Object>		
keyUsedCnt	<integer></integer>	The total key used in the CMS system	4 and onward

```
{
     "camera": [
          "audioOut": true,
          "mute": false,
          "recStatus": 0,
          "analyticsType": 0,
          "ptzCap": 111,
          "audioType": 4,
          "ptzContinuous": 39,
          "is_rotated_by_date": false,
          "ADCap": 5,
          "blLiveviewPriv": true,
          "videoCapList": [
             {
                "stList": [
                  "RTSP"
                "vt": "H.264"
             },
               "stList": [
                  "HTTP"
                "vt": "MJPEG"
             }
          "isStatusUnrecognized": false,
          "is_rotated_by_space": true,
          "osd_position": 6,
          "fisheyeType": 0,
          "recBitrateCtrl": 1,
          "video_mirror": true,
          "vendor": "AXIS",
          "video rotation": 0,
          "stmFisheyeType": 0,
```

```
"dsPort": 5000,
          "TDCap": 0,
          "camMountType": 0,
          "exposure control": 6,
          "name": "P5415-E-0011",
          "ownerDsId": 0,
          "osd status": true,
          "fisheyeDispMode": "",
          "channel id": "1",
          "setDICap": false,
          "param chklist": 0,
          "analyticsBeep": false,
          "status_flags": 32,
          "feRegionList": [],
          "objTrack": false,
          "port": 80,
          "video_flip": true,
          "osd_format": 0,
          "autoPan": 0,
          "deleted": false,
          "deviceType": 4,
          "hasCamParam": true,
          "DINum": 2,
          "snapshot path":
"/webapi/
                                                                              entry.cgi?
api=SYNO. Surveillance Station. Camera \& method = GetSnapshot \& version = 1 \& camera Id = 70 \times tamp = 142491912
9&preview=true",
          "dslp": "",
          "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,
              "quality": "5",
              "resolution": "2592x1944",
              "stmNo": 1,
              "type": 1
            },
"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",
      "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":
"customAlarmDetect": 3,
      "camLiveFps": 10,
      "camChannel": "1",
      "camRotOption": 0,
      "camQuality": "5",
      "camPrefix": "P5415-E-001",
      "edgeStgRetrieveAction": 2,
      "camSchedule":
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"
      "camVideoType": "H.264",
      "camMobileBitrateCtrl": 1,
      "MdDetSrc": 0,
      "camServer": 0,
      "camFolder": "P5415-E-001".
      "edgeStgRecDays": 127,
      "camPort": 80,
      "camRtspProtocol": 4,
      "camName": "P5415-E-0011",
      "camAudioType": 4
```

```
},
         "enabled": true,
         "analyticsSens": 1,
         "analyticsWidth": 0,
         "recCbrBitrate": 1000,
         "blPresetSpeed": false,
         "DONum": 0,
         "id": 70,
         "setDOCap": false,
         "analyticsFrame": true,
         "analyticsLine": false,
         "daybegin": 8,
         "fps": 10,
         "status": 1,
         "update_time": 1424919129,
         "exposure_mode": 4,
         "time_server": "",
         "rotation_option": 0,
         "presetNum": 32,
         "camStatus": 9,
         "analyticsDwellTime": 5,
         "camPath":
"cnRzcDovL3Jvb3Q6bmF0bWFzdGVyQDEwLjEzLjEyLjE2NTo1NTQvYXhpcy1tZWRpYS9tZWRpYS5hbXA/Y2FtZ
XJhPTEmdmlkZW9jb2RlYz1oMjY0JnJlc29sdXRpb249ODAweDQ1MCZmcHM9MTAmdmlkZW9rZXlmcmFtZWl
udGVydmFsPTEwJmNvbXByZXNzaW9uPTIw",
         "model": "P5415-E",
         "resolution": "800x450"
       }
    ],
    "keyUsedCnt": 8
```

2.3.7.2 ArchiveCamEnum method

Enumerating cameras in the selected archive

Request

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

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

Response

Key	Value	Description	Availability
camlist	Array of <camimportlist< td=""><td>The imported cameras</td><td>4 and onward</td></camimportlist<>	The imported cameras	4 and onward
	Object>		

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></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< td=""><td>The archives inside the folder</td><td>4 and onward</td></archive<>	The archives inside the folder	4 and onward
	Object>		

< CamImportList Object> definition:

Synology Surveillance Station Web API

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

2.3.7.4 API Error Code

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

2.3.8 SYNO.SurveillanceStation.Camera.Wizard

This API provides Saving/Editing operations for camera

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

Method Name	Section	Availability
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></camera_id>	Specified camera ID	4 and onward
host	<string></string>	Address of the camera	4 and onward
port	<string></string>	Port of the camera	4 and onward
user	<string></string>	The user who tries to log in	4 and onward
pass	<string></string>	The Correlated password	4 and onward
vendor	<string></string>	Vendor of the camera	4 and onward
model	<string></string>	Model of the camera	4 and onward
ch	<string></string>	Optional.	4 and onward
		parameter for decoding real password	

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%85%EF%BC%85%EF%BC%85%EF%BC%85%EF%BC%85%EF%BC%85%EF%BC%85%EF%BC%85%EF%BC%85%EF%BC%85%EF%BC%85%EF

Response

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

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

2.3.8.3 CamBarAddSaveAll method

This API saves the configuration from batch add

Request

Parameter	Value	Description	Availability
camServerId	<integer></integer>	The DS id on which cameras mounted	4 and onward
data	<cambatadd object=""></cambatadd>	The data of To-Be-Added cameras	4 and onward

<CamBatAdd Object> definition:

Key	Value	Description	Availability
camList	Array of <camcreate< td=""><td>The list of To-Be-Added cameras</td><td>4 and onward</td></camcreate<>	The list of To-Be-Added cameras	4 and onward
	Object>		
tvStandard	<string></string>	Standard of the input video	4 and onward
camMountType	<string></string>	How camera is mounted	4 and onward
		0: CEILING	
		• 1: WALL	
		• 2: FLOOR	
camChannel	<string></string>	Channel of the output video	4 and onward
name	<string></string>	The type of the creation	4 and onward

<CamCreate Object> definition:

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

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"&model="P5415-

E"&port="80"http://192.168.1.1:5000/webapi/entry.cgi?

camServerId=0&api="SYNO.SurveillanceStation.Camera.Wizard"&data={"camChannel": "", "camList": [{"username": "admin", "vendor": "ABUS", "name": "TVIP20000-001", "ip": "10.13.12.200", "model": "TVIP20000", "password": "synoss", "port": 80}, {"username": "root", "vendor": "AXIS", "name": "P5415-E-001", "ip": "10.13.12.165", "model": "P5415-E", "password": "natmaster", "port": 80}, {"username": "admin", "vendor": "iPUX", "name": "ICS8220-001", "ip": "10.13.11.195", "model": "ICS8220", "password": "admin", "port": 80}], "camMountType": "", "mode": "quick", "tvStandard":

```
""}&version="1"&method="CamBatAddSaveAll"
```

Response

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

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

Example:

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

Response

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

```
{
    "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></integer>	The DS id on which this camera mounted	4 and onward
actFromHost	<boolean></boolean>	Indicating if the api is called from CMS host 4 and onwar	
camStreamingType	<string></string>	The streaming protocol of the camera	4 and onward
camName	<string></string>	User-defined name of the camera	4 and onward
camIP	<string></string>	IP address of the camera	4 and onward
camPort	<string></string>	Port of the camera	4 and onward
camVendor	<string></string>	Vendor of the camera	4 and onward
camModel	<string></string>	Model name of the camera	4 and onward
camMountType	<string></string>	How camera is mounted, for example, on	4 and onward
		the wall, ceiling	
camChannel	<string></string>	Channel number of the camera 4 and onw	
camVideoType	<string></string>	Video type of the camera 4 and 0	
camAudioType	<string></string>	Indicating audio type	4 and onward
		0: UNKNOWN	
		• 1: PCM	
		• 2: G711	
		• 3: G726	
		• 4: AAC	
		• 5: AMR	
camSourcePath	<string></string>	Path of recorded videos	4 and onward
camUserName	<string></string>	The input camera user	4 and onward
camPassWord	<string></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%EF%BC%83%EF%BC%83%EF%EF%BC%83%EF%EF%BC%83%EF%EF%BC%83%EF%EF%BC%83%EF%EF%BC%83%EF%EF%BC%83%EF%EF%BC%83%EF%EF%BC%83%EF%EF%BC%83%EF%EF%BC%83%EF

Response

Key	Value	Description	Availability
camId	<camera_id></camera_id>	The remaining size of the SD card in KB	4 and onward
Camera	Array of <camera information="" object=""></camera>	The added camera object	4 and onward
keyUsedCnt	<integer></integer>	The status of the camera	4 and onward

```
{
    "camId": 80,
    "camera": [
      {
         "audioOut": true,
         "mute": false,
         "recStatus": 0,
         "analyticsType": 0,
         "ptzCap": 111,
         "audioType": 4,
         "ptzContinuous": 39,
         "is_rotated_by_date": false,
         "ADCap": 5,
         "blLiveviewPriv": true,
         "videoCapList": [
              "stList": [
                 "RTSP"
              "vt": "H.264"
            },
              "stList": [
                 "HTTP"
              "vt": "MJPEG"
            }
         ],
         "isStatusUnrecognized": false,
         "is_rotated_by_space": true,
         "osd_position": 6,
         "fisheyeType": 0,
         "recBitrateCtrl": 1,
         "video_mirror": true,
         "vendor": "AXIS",
         "video_rotation": 0,
         "stmFisheyeType": 0,
         "dsPort": 5000,
         "TDCap": 0,
         "camMountType": 0,
         "exposure_control": 6,
         "name": "P5415-E-0011",
```

```
"ownerDsId": 0,
          "osd_status": true,
          "fisheyeDispMode": "",
         "channel id": "1",
         "setDICap": false,
          "param_chklist": 0,
         "analyticsBeep": false,
          "status flags": 32,
         "feRegionList": [],
         "objTrack": false,
         "port": 80,
         "video flip": true,
          "osd format": 0,
         "autoPan": 0,
         "deleted": false,
         "deviceType": 4,
          "hasCamParam": true,
          "DINum": 2,
         "snapshot_path":
"/webapi/
                                                                           entry.cgi?
api=SYNO.SurveillanceStation.Camera&method=GetSnapshot&version=1&cameraId=70×tamp=142491912
9&preview=true",
          "dsIp": "",
         "host": "10.13.12.165",
          "rotation_by_date": 30,
         "autoFocus": true,
         "volume space": "9.617",
          "analyticsHeight": 0,
         "MDCap": 5,
         "rotation_by_space": "10",
         "analyticsVirtualFence": false,
         "analyticsObjSize": 0,
          "analyticsDirection": 1,
         "analyticsRegion": "",
          "quality": "5",
          "multiDI": false,
          "type": 3,
          "stm info": [
            {
               "camPath":
"cnRzcDovL2FkbWluOnN5bm8xMjM0QDEwLjE3LjUyLjIwOTo1NTQvbGl2ZTEuc2Rw",
               "fps": 15,
               "quality": "5",
               "resolution": "2592x1944",
               "stmNo": 1,
               "type": 0
            },
               "camPath":
"cnRzcDovL2FkbWluOnN5bm8xMjM0QDEwLjE3LjUyLjIwOTo1NTQvbGl2ZTEuc2Rw",
               "fps": 15,
```

```
"quality": "5",
              "resolution": "2592x1944",
              "stmNo": 1,
              "type": 1
            },
"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",
```

```
"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":
"customAlarmDetect": 3,
      "camLiveFps": 10,
      "camChannel": "1",
      "camRotOption": 0,
      "camQuality": "5",
      "camPrefix": "P5415-E-001",
      "edgeStgRetrieveAction": 2,
      "camSchedule":
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",
      "camVideoType": "H.264",
      "camMobileBitrateCtrl": 1,
      "MdDetSrc": 0,
      "camServer": 0,
      "camFolder": "P5415-E-001",
      "edgeStgRecDays": 127,
      "camPort": 80,
      "camRtspProtocol": 4,
      "camName": "P5415-E-0011",
      "camAudioType": 4
    },
    "enabled": true,
    "analyticsSens": 1,
    "analyticsWidth": 0,
     "recCbrBitrate": 1000.
```

```
"blPresetSpeed": false,
         "DONum": 0,
         "id": 70,
         "setDOCap": false,
         "analyticsFrame": true,
         "analyticsLine": false,
         "daybegin": 8,
         "fps": 10,
         "status": 1,
         "update_time": 1424919129,
         "exposure mode": 4,
         "time_server": "",
         "rotation_option": 0,
         "presetNum": 32,
         "camStatus": 9,
         "analyticsDwellTime": 5,
         "camPath":
"cnRzcDovL3Jvb3Q6bmF0bWFzdGVyQDEwLjEzLjEyLjE2NTo1NTQvYXhpcy1tZWRpYS9tZWRpYS5hbXA/Y2FtZ
XJhPTEmdmlkZW9jb2RlYz1oMjY0JnJlc29sdXRpb249ODAweDQ1MCZmcHM9MTAmdmlkZW9rZXlmcmFtZWl
udGVydmFsPTEwJmNvbXByZXNzaW9uPTIw",
         "model": "P5415-E",
         "resolution": "800x450"
       }
    ],
    "keyUsedCnt": 8
}
```

2.3.8.6 API Error Code

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

2.3.9 SYNO.SurveillanceStation.PTZ

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

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

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

Control the PTZ camera to move its lens.

Request

Parameter	Value	Description	Availability
camerald	<camera_id></camera_id>	Unique camera ID.	1 and onward
direction	up, down, left, right,	Direction to move.up: Move lens up.down: Move lens down.left: Move lens left.	3 and onward
	dir_n	 right: Move lens right. dir_n: n is in the range of [0 to ptzDirection-1] 	
speed	<integer></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. Surveillance Station. PTZ&method=Move&version=1&camerald=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
camerald	<camera_id></camera_id>	Unique camera ID.	1 and onward
control	in,	Zoom control.	1 and onward
	out	in: Make camera to zoom in.	
		out: Make camera to zoom out.	
moveType	Start,	Optional.	3 and onward

Stop	Start continous move	
	Stop continous move	

Example: Control a camera to do zoom in.

GET /webapi/entry.cgi?

api=SYNO. Surveillance Station. PTZ&method=Zoom&version=1&camerald=10&control=in&moveType=Startant approximation of the properties of th

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
camerald	<camera_id></camera_id>	Unique camera ID.	1 and onward
offset	<integer></integer>	Optional. The offset to be shifted in the total result. If not specified, the offset will be 0.	1 and onward
limit	<integer></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. Surveillance Station. PTZ&method=ListPreset&version=1&offset=10& limit=3& camerald=10

Response

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

<Pre><Preset Object> definition:

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

Example:

{

2.3.9.4 GoPreset method

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

Request

Parameter	Value	Description	Availability
camerald	<camera_id></camera_id>	Unique camera ID.	1 and onward
presetId	<preset_id></preset_id>	Unique preset ID.	1~3
position	<preset_pos_index></preset_pos_index>	Unique preset position index.	4 and onward
speed	<preset_speed></preset_speed>	Go preset speed.	4 and onward
type	<preset_type></preset_type>	Preset type. 0 for normal preset, and 1 for home preset.	4 and onward
isPatrol	<boolean></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&camerald=10&presetId=10
```

Example 2:

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

Response

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

2.3.9.5 ListPatrol method

Enumerate the patrol list of a PTZ camera.

Request

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

Example:

GET /webapi/entry.cgi?

api=SYNO. Surveillance Station. PTZ&method=ListPatrol&version=1&offset=10&limit=2&camerald=10

Response

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

<Patrol Object> definition:

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

Example:

```
}
]
}
```

2.3.9.6 RunPatrol method

Force the camera to execute the specific patrol.

Request

Parameter	Value	Description	Availability
camerald	<camera_id></camera_id>	Unique camera ID.	2 and onward
patrolld	<patrol_id></patrol_id>	Unique patrol ID.	2 and onward

Example:

```
GET /webapi/entry.cgi?
api=SYNO.SurveillanceStation.PTZ&method=RunPatrol&version=2&camerald=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
camerald	<camera_id></camera_id>	Unique camera ID.	3 and onward
control	ln,	Focus control.	3 and onward
	out	in: Make camera to focus in.	
		out: Make camera to focus out.	
moveType	Start,	Optional.	3 and onward
	Stop	Start continous move	
		Stop continous move	

Example: Control a camera to do focus out.

Response

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

2.3.9.8 Iris method

Control the camera to iris in or iris out.

Request

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

Example:

GET /webapi/entry.cgi?

api=SYNO. Surveillance Station. PTZ&method=Iris&version=3&camerald=10&control=in&moveType=Startant approximation of the properties of th

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
camerald	<camera_id></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.

Parameter Value	Description	Availability
-----------------	-------------	--------------

Synology Surveillance Station Web API

camerald	<camera_id></camera_id>	Unique camera ID.	3 and onward
posX	<integer></integer>	[0 to 640]	3 and onward
		Absolutely position in horizontal-axis on screen.	
		> 320: move right	
		< 320: move left	
posY	<integer></integer>	[0 to 480]	3 and onward
		Absolutely position in vertical-axis on screen.	
		>240: move up	
		<240: 240 move down	

Example:

GET /webapi/entry.cgi?

api=SYNO.SurveillanceStation.PTZ&method=AbsPtz&version=3&camerald=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
camerald	<camera_id></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.

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

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
camerald	<camera_id></camera_id>	Unique camera ID.	5 and onward
moveType	<string></string>	Optional.	5 and onward
		Start or Stop object tracking, default to start.	
		"Step": Start	
		"Stop": Stop	

Example:

GET/we bapi/entry.cgi?api=SYNO.Surveillance Station.PTZ&method=ObjTracking&version=5&camerald=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.	

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
camerald	<camera_id></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. Surveillance Station. External Recording & method = Record & version = 1 & camerald = 10 & action = start = 10 & action = 10 & act

Stop external recording of target camera.

GET /webapi/entry.cgi?

api=SYNO. Surveillance Station. External Recording & method = Record & version = 1 & camerald = 10 & action = stop = 10 & action = 10 & acti

Response

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

2.3.10.2 API Error Code

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

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.

Parameter	Value	Description	Availability
offset	<integer></integer>	Optional.	6 and onward
		The offset to be shifted in the total result.	
		If not specified, the offset will be 0.	
limit	<integer></integer>	Optional.	6 and onward
		Number of recordings to be returned.	
		If not specified, return recordings to the end of recording	
		list.	
cameralds	<string></string>	Optional.	6 and onward
		The list of <camera_id> to be queried concatenated by ",".</camera_id>	
		If not specified, this parameter will be ignored and get all	

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

GET /webapi/entry.cgi?

version = 6& cameralds = "1,2"& api = "SYNO. Surveillance Station. Recording "& toTime = 0& offset = 0& limit = 80& from Time = 0& method = "List"

Response

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

<recordings> definition:

Key	Value	Description	
id	<integer></integer>	The id of the recording	
videoCodec	<integer></integer>	The video codec of the recording.	
		0 - Unknown	
		• 1 - MJPEG	
		• 2 - MPEG4	
		• 3 - H264	
		• 5 - MXPEG	
		• 6 - H265	
		• 7 - H264+	
audioCodec	<integer></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></integer>	The image height of the recording.	
width	<integer></integer>	The image width of the recording.	
camerald	<integer></integer>	The belonged camera id of the recording.	
cameraName	<integer></integer>	The belonged camera name of the recording.	
sizeByte	<integer></integer>	The size of the recording.	
filePath	<integer></integer>	The file path of the recording.	

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",
       "camerald": 13,
       "sizeByte": 1041280,
       "height": 480,
    },
       "audioCodec": "",
       "videoCodec": "MJPEG",
       "width": 640,
       "filePath": "20141030PM/TVIP2155220141030-224911-1414680851.avi",
       "cameraName": "TVIP21552",
       "camerald": 13,
       "sizeByte": 1041280,
       "height": 480,
    },
       "audioCodec": "",
       "videoCodec": "MJPEG",
       "width": 640,
       "filePath": "20141030PM/TVIP2155220141030-224911-1414681151.avi",
       "id": 48,
       "cameraName": "TVIP21552",
       "camerald": 13,
       "sizeByte": 1041280,
       "height": 480,
    }
  ]
}
```

2.3.11.2 Delete method

Delete recordings with selection.

Request

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

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.

Parameter	Value	Description	Availability
reason	<string></string>	Optional. The list of recording mode to be queried concatenated by ",".	3 and onward
		O: 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	
cameralds	<string></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.</camera>	3 and onward
fromTime	<timestamp></timestamp>	Optional. Query start time. If not specified, this parameter will be ignored and get all related events.	3 and onward
toTime	<timestamp></timestamp>	Optional.	3 and onward

		Query stop time. If not specified, this parameter will be ignored and get all related events.	
locked	<integer></integer>	Query locked.	4 and onward
evtSrcType	0, 1, 2,	Optional. The filtered source. • 0: None	4 and onward
	3	1: Local2: Recording Server	
		• 3: Mount If not specified, the default value is 0.	
evtSrcId	<integer></integer>	CONDITIONAL "depend": Param("evtSrcType").valid() The specific slave ds or mount id. If not specified, the default value is -1.	4 and onward
blincludeSnaps hot	<boolean></boolean>	Include snapshot or not. If not specified, the default value is false.	4 and onward
includeAllCam	<boolean></boolean>	Include all camera or not. If not specified, the default value is false.	4 and onward
from_end	<integer></integer>	Time from end. 4 and or If not specified, the default value is 0.	
from_start	<integer></integer>	Time from start. If not specified, the default value is 0.	4 and onward

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

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></boolean>	Optional.	4 and onward
		Rotate unrecognized camera nor not.	
		If not specified, the default value will be false.	

Example:

 $\label{lem:general-condition} GET / we bapi / entry.cgi? \\ rotate Unrecog Cam = true \& api = "SYNO.Surveillance Station.Recording" \& version = "4" \& method = "Apply Advanced" \\ ed"$

Response

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

Example:

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

2.3.11.6 CountByCategory method

Get the count number of Event in category.

Parameter	Value	Description	Availability
offset	<integer></integer>	Optional.	4 and onward
		Offset of timezone.	
		If not specified, the offset will be 0.	
limit	<integer></integer>	Optional.	4 and onward
		Number of events to be returned.	
		If not specified, return events to the end of event list.	
reason	<string></string>	Optional.	4 and onward
		The list of recording mode to be queried concatenated by	

	1	T	1
		• 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	
cameralds	<string></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.</camera>	4 and onward
fromTime	<integer></integer>	Optional.	4 and onward
		Query start time.	
		If not specified, the default value is 0.	
toTime	<integer></integer>	Optional.	4 and onward
		Query stop time.	
locked	<integer></integer>	If not specified, the default value is 0. Query locked.	4 and onward
evtSrcType	0,	Optional.	4 and onward
CVESTOTYPE	1,	The filtered source.	- and onward
	2,	• 0: None	
	3	• 1: Local	
		• 2: Recording Server	
		• 3: Mount	
		If not specified, the default value is 0.	
evtSrcId	<integer></integer>	CONDITIONAL "depend": Param("evtSrcType").valid()	4 and onward
		The specific slave ds or mount id.	
		If not specified, the default value is -1.	
blincludeSnaps	<boolean></boolean>	Include snapshot or not.	4 and onward
hot	dh a a le con	If not specified, the default value is false.	A anal an and
includeAllCam	<boolean></boolean>	Include all camera or not. If not specified, the default value is false.	4 and onward
		In thou specified, the default value is false.	1

GET /webapi/entry.cgi?

locked=0&version="4"&blIncludeSnapshot=true&cameralds=""&evtSrcType=2&reason=""&api="SYNO.SurveillanceStation.Recording"&evtSrcId=-

Response

Key	Value	Description	Availability
date	Array of <day_cnt></day_cnt>	Number of Event of each day1: 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></evt_cam_ds_info>	Information of event camera.	4 and onward
total	<integer></integer>	Total number of Event.	4 and onward

<day_cnt> definition:

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

<time_cnt> definition:

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

<evt_cam_ds_info> definition:

Key	Value	Description	Availability
-1	<integer></integer>	Total number count.	4 and onward
Χ	<evt cam="" info=""></evt>	X is the local DS id.	4 and onward

<evt_cam_info> definition:

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

Example:

```
{
    date":{
        "-1":243,
        "2015/03/11":{
            "-1":156,
            "am":0,
            "pm":156
        },
        "2015/03/12":{
            "-1":87,
            "am":69,
            "pm":18
        }
```

Synology Surveillance Station Web API

```
},
"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></idlist>	Optional.	4 and onward
		Event id lists.	

<idList> definition:

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

Example:

```
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></boolean>	Rotate unrecognized camera nor not.	4 and onward

Example:

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

2.3.11.10 LockFilter method

Lock the selected events in filter.

Parameter	Value	Description	Availability
reason	<string></string>	Optional.	4 and onward
		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	
cameralds	<string></string>	Optional.	4 and onward
		The list of <camera id=""> to be queried concatenated by ",".</camera>	
		If not specified, this parameter will be ignored and get all	
		related events.	
fromTime	<integer></integer>	Optional.	4 and onward
		Query start time.	
		If not specified, the default value is 0.	
toTime	<integer></integer>	Optional.	4 and onward
		Query stop time.	
		If not specified, the default value is 0.	
locked	<integer></integer>	Query locked.	4 and onward
evtSrcType	0,	Optional.	4 and onward
	1,	The filtered source.	
	2,	• 0: None	
	3	• 1: Local	
		2: Recording Server	
		• 3: Mount	
		If not specified, the default value is 0.	
evtSrcId	<integer></integer>	CONDITIONAL "depend": Param("evtSrcType").valid()	4 and onward
		The specific slave ds or mount id.	
		If not specified, the default value is -1.	

GET /webapi/entry.cgi?

reason = "1,3,8" & api = "SYNO. Surveillance Station. Recording "& locked = 0 & version = "4" & to Time = 0 & cameral d s = "1,2,3" & evt SrcType = 2 & from Time = 0 & method = "Lock Filter" & evt SrcId = 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.

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

ſ		The belonged ds id of recordings to be unlocked.	
- 1		The belonged as a of recordings to be amounted.	

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.

Parameter	Value	Description	Availability
reason	<string></string>	Optional.	4 and onward
		The list of recording mode to be queried concatenated by	
		<i>1</i> '	
		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	
cameralds	<string></string>	Optional.	4 and onward
		The list of <camera id=""> to be queried concatenated by ",".</camera>	
		If not specified, this parameter will be ignored and get all	
		related events.	
fromTime	<integer></integer>	Optional.	4 and onward
		Query start time. If not specified, the default value is 0.	
toTime	<integer></integer>	Optional.	4 and onward
Cornine	\IIItegei>	Query stop time.	4 and onward
		If not specified, the default value is 0.	
locked	<integer></integer>	Query locked.	4 and onward
evtSrcType	0,	Optional.	4 and onward
,,	1,	The filtered source.	
	2,	0: None	

Synology Surveillance Station Web API

	3	• 1: Local	
		2: Recording Server	
		• 3: Mount	
		If not specified, the default value is 0.	
evtSrcId	<integer></integer>	CONDITIONAL "depend": Param("evtSrcType").valid()	4 and onward
		The specific slave ds or mount id.	
		If not specified, the default value is -1.	

Example:

GET /webapi/entry.cgi?

reason = "1,3,8" & api = "SYNO. Surveillance Station. Recording "& locked = 0 & version = "4" & to Time = 0 & cameralds = "1,2,3" & evtSrcType = 2 & from Time = 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></string>	The list of recording id to be locked concatenated by ",".	6 and onward
dsId	<integer></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.

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

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

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

Example:

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

Response

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

Example:

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

2.3.11.16 Stream method

Play a specific recording.

Request

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

Example:

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

Response

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>

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></integer>	ld of camera.	6 and onward
fromTime	<integer></integer>	The start of UTC time range.	6 and onward
toTime	<integer></integer>	The end of UTC time range.	6 and onward
fileName <string> Download file name without file exten</string>		Download file name without file extension.	6 and onward
		Use for included recording name if zip file needed.	

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></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></integer>	Response of RangeExport method.	6 and onward

Example:

GET /webapi/entry.cgi?

api="SYNO.SurveillanceStation.Recording"&method="GetRangeExportProgress"&version=6&dlid=20069

Response

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

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></integer>	Response of RangeExport method.	6 and onward
fileName <string></string>		Download file name without file extension.	6 and onward
	Use for zip file name if zip file needed.		

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.	
Some events not exist.		

439	Too many items selected.	
-----	--------------------------	--

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	1	Surveillance Station 7.0
.Export		

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

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></integer>	Total number of export task.	1 and onward
exporttask	Array of	Information of export task.	1 and onward
	<exporttask_info></exporttask_info>		

<exporttask_info> definition:

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

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

2.3.12.2 CheckName method

Check the name of export event.

Request

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

Example:

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

Response

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

Example:

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

2.3.12.3 CamEnum method

Get list information of all cameras.

Request

Parameter	Value	Description	Availability
dsld	1 - 0 -	Optional. DS Id.	1 and onward
		If not specified, the default value will be -1.	

Example:

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

Response

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

<camlist_info>definition:

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

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

2.3.12.4 CheckAvailableExport method

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

Request

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

Example:

GET /webapi/entry.cgi?

camIdList="32,33,34"&version="1"&freeSize=881508&method="CheckAvailableExport"&api="SYNO.Surveil lanceStation.Recording.Export"&startTime=1425398400&stopTime=1425484800

Response

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

Example:

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

2.3.12.5 Save method

Handle save event export.

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

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></integer>	Optional.	1 and onward
		Start time of event.	
		If not specified, the default value will be 0.	
stopTime	<integer></integer>	Optional.	1 and onward
-		Stop time of event.	
		If not specified, the default value will be 0.	
camIdList	<string></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	Information list of target events.	1 and onward
	<camevtinfolist_info></camevtinfolist_info>		
eventIdList	<string></string>	List of event Id.	
fisheyeldList	<string></string>	List of fisheye Id.	
totalEvtCnt	<integer></integer>	Total count number of events.	
totalEvtSize	<integer></integer>	Total size of events. (MB)	

<camEvtInfoList_info>definition:

Key	Value	Description	Availability
	Array of <camevtlist_info></camevtlist_info>	Information of target camera event.	1 and onward
camId	<integer></integer>	ld of camera.	1 and onward

camStoragePath	<string></string>	Storage path of the camera.	1 and onward
jeanistorager atm	ישנו וווצר	pitorage path of the carriera.	± ana onwara

<camEvtList_info>definition:

Key	Value	Description	Availability
path	<string></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.
1	Parameter invalid.
l e e e e e e e e e e e e e e e e e e e	CMS server connection failed.
414	Some events not exist.
439	Too many items selected.

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 event.	1 and onward
	<mount_element></mount_element>		
total	<integer></integer>	Total number of mount event.	1 and onward

<mount_element> definition:

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

<cam_info> definition:

Key	Value	Description	Availability
analyticsDirection	<integer></integer>	Analytics type of liveview.	1 and onward
		0: One way direction in analytics	
		1: Two way direction in analytics	
analyticsDwellTime	<integer></integer>	Setting of dwelling time in liveview	1 and onward
		analytics.	
analyticsObjSize	<integer></integer>	Setting of object size in liveview analytics.	1 and onward
		0: One forth object size	
		1: One ninth object size	
		2: One sixteenth object size	
analyticsRegion	<string></string>	Setting of analytics Region in liveview	1 and onward
,		analytics.	
		0: Unset	
		• 1: Set	
analyticsSens	<integer></integer>	Analytics type of liveview.	1 and onward
,		• 0: Low	
		• 1: Medium	
		• 2: High	
analyticsType	<integer></integer>	Analytics type of liveview.	1 and onward
		• 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	
camMountType	<integer></integer>	Type of mounted camera.	1 and onward
		0: ceiling	
		• 1: wall	
		• 2: floor	
		• 3: CNT	
feRegionList	Array of <feregion_info></feregion_info>	List of fisheye region.	1 and onward
fisheyeType	<integer></integer>	Type of fisheye.	1 and onward
		0: no fisheye	
		other than 0: one of vendor	
id	<integer></integer>	Camera Id.	1 and onward
name	<string></string>	Camera name.	1 and onward

<feRegion_info> definition:

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

		 -1: FISHEYE_NOT_REGION 0: FISHEYE_REGION 1: FISHEYE_PANORAMA 2: FISHEYE_DOUBLE_PANORAMA 3: FISHEYE_TRIPLE_VIEW 4: FISHEYE_QUAD_VIEW 5: FISHEYE_SUB_REGION 6: FISHEYE_SUB_PANORAMA 	
zoom	<integer></integer>	6: FISHEYE_SUB_PANORAMA 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":
"camMountType": 0,
  "id": 38,
  "name": "FE8172-001",
  "analyticsSens": 1,
  "feRegionList": [
   "camId": 38,
   "name": "Default Region",
   "zoom": 25,
```

```
"posX": 500,
               "posY": 500,
               "type": 0,
               "id": 26
               "camId": 38,
               "name": "Default Panorama",
               "zoom": 25,
               "posX": 500,
               "posY": 250,
               "type": 1,
               "id": 27
            },
               "camId": 38,
               "name": "Default Double Panorama",
               "zoom": 25,
               "posX": 500,
               "posY": 250,
               "type": 2,
               "id": 28
            },
               "camId": 38,
               "name": "Default Triple View",
               "zoom": 25,
               "posX": 500,
               "posY": 250,
               "type": 3,
               "id": 29
            },
               "camId": 38,
               "name": "Default Quad View",
               "zoom": 25,
               "posX": 500,
               "posY": 250,
               "type": 4,
               "id": 30
            }
          ],
          "fisheyeType": 1,
          "analyticsObjSize": 2
       }
     ],
     "dsId": 0,
     "id": 4,
     "stop_time": 1424102400
  }
]
```

}

2.3.13.2 API Error Code

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

2.3.14 SYNO.SurveillanceStation.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	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Optional. DS Id.	1 and onward
webAPI	Array of <pre><webapi_info></webapi_info></pre>	Optional. Webapi.	1 and onward

Example:

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

Response

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

2.3.14.2 ModifySharePriv method

Modify share privilege.

Request

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

Example:

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

Response

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

Example:

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

2.3.14.3 ApplyOption method

Apply the option setting.

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

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

 $\label{lem:general_auto_video_relay} $$\operatorname{cral_mode="1"\&api="SYNO.SurveillanceStation.CMS"\&version="1"cral_rec_mask_mode=false\&method="ApplyOption"cral_enable=true$

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

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

```
"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.

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

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

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

Key	Value	Description	Availability
central_auto_vide	<boolean></boolean>	Is auto video relay enabled or not.	1 and onward
o_relay	<boolean></boolean>	la control anable or not	1 and onward
central_enable		Is central enable or not.	1 and onward
central_host_ip	<string></string>	IP of paired host.	
central_locked	<boolean></boolean>	Is recServer locked or not.	1 and onward
central_mode	<string></string>	Central CMS mode.	1 and onward
		0: Disable	
		• 1: Host server	
		• 2: Rec server	
central_paired_ho	<string></string>	Model of paired host.	1 and onward
st_model			
central_paired_ho	<string></string>	Name of paired host.	1 and onward
st_name			
central_rec_mask	<boolean></boolean>	Prevent other user to change the setting of	1 and onward
_mode		recording server.	
central_rec_status	<integer></integer>	Status of recServer.	1 and onward
		0: normal	
		• 1: disable	
		3: disconnect	
central_rec_sync_	<boolean></boolean>	Is the time of recording server syncronized with	1 and onward
time		host.	
confirm_key	<string></string>	Confirm key.	1 and onward
enable_video_rela	<boolean></boolean>	Enable video relay or not.	1 and onward
у			
key	<string></string>	Key.	1 and onward
nvr_enable	<boolean></boolean>	Is NVR enabled.	1 and onward
nvr_lang	<string></string>	Language of NVR.	1 and onward
vs_enable	<boolean></boolean>	Is VisualStation enabled.	1 and onward
success	<boolean></boolean>	Success or not.	1 and onward
	I.	I .	l

```
"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></integer>	Optional.	1 and onward
		Privilege setting.	
		If not specified, the default value will be 0.	
syncTargetId	<integer></integer>	Optional.	1 and onward
		Syncronized target DS Id.	
		If not specified, the default value will be 1.	
limit	<integer></integer>	Optional.	1 and onward
		limit in SQL.	
		If not specified, the default value will be 0.	

Example:

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

Key	Value	Description	Availability

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

<syncDataList_info> definition

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

 ${\tt GET/webapi/entry.cgi?api="SYNO.SurveillanceStation.CMS" \& version="1" \& method="CheckSambaEnabled" and the state of t$

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

```
{
    "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></string>	Optional.	1 and onward
		DS Id list.	

Example:

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

Response

Key	Value	Description	Availability
allSambaEnabled	<boolean></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></integer>	Optional.	1 and onward
		Camera Id.	
		If not specified, the default value will be 0.	

Example:

GET /webapi/entry.cgi?

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

Response

Key	Value	Description	Availability
snapshot	<string></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></integer>	Optional.	1 and onward
		Camera Id.	
		If not specified, the default value will be 0.	

Example:

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

Response

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

Example:

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

2.3.14.10 EnableSamba method

Enable Samba service.

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

Example:

GET /webapi/entry.cgi?

api="SYNO.SurveillanceStation.CMS"&locked=false&version="1"&method="LockSelf"

Response

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

2.3.14.13 API Error Code

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

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

Example:

GET /webapi/entry.cgi?

Response

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

Example:

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

2.3.15.2 UnPair method

Unpair recording server from the host.

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

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

```
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></integer>	Free size of memory in MB.	1 and onward

Example:

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

2.3.15.4 Lock method

Handle lock slave ds.

Request

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

Example:

GET /webapi/entry.cgi?

master Auth Key = "14C0MON392200" & version = "1" & lock = false & mac = "0011323CC393" & api = "SYNO. Surveillance Station. CMS. GetDs Status" & key = "123456" & adminUsername = "admin" & method = "Lock" | lock = false & mac = "0011323CC393" & api = "SYNO. Surveillance Station. CMS. GetDs Status" & key = "123456" & adminUsername = "admin" & method = "Lock" | lock = false & mac = "0011323CC393" & api = "SYNO. Surveillance Station. CMS. GetDs Status" & key = "123456" & lock = false & mac = "0011323CC393" & lock = false & mac = fa

Key	Value	Description	Availability
status	<integer></integer>	Status of slave DS connection.	1 and onward
		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	
--	--	---------------------	--

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

2.3.15.5 Test method

Get the information of target DS.

Request

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

Example:

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

Key	Value	Description	Availability
auth_key	<string></string>	Authorized Key.	1 and onward
cms_locked	<boolean></boolean>	Prevent the changing of settings from	1 and onward
		other server.	
dsModel	<string></string>	Model of DS.	1 and onward
keyTotal	<integer></integer>	Total number of key.	1 and onward
keyUsed	<integer></integer>	Used number of key.	1 and onward
licenseList	<string></string>	List of license.	1 and onward
mac	<string></string>	Mac address.	1 and onward
status	<integer></integer>	Status of slave DS connection.	1 and onward
		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

```
{
    "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></string>	Optional.	1 and onward
		User name.	
key	<string></string>	Optional.	1 and onward
		Key.	
mac	<string></string>	Optional.	1 and onward
		Mac address.	

Example:

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

Key	Value	Description	Availability
status	<integer></integer>	Status of slave DS connection.	1 and onward
		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	

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

2.3.15.7 Pair method

Handle pair slave ds.

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

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

GET /webapi/entry.cgi?

 $cms_sync_time=true\&masterAuthKey="14C0MON392200"\&version="1"\&slaveDslp="10.13.21.18"\&dsname="DiskStation"\&cms_locked=true\&method="Pair"\&mac="00113235D696"\&api="SYNO.SurveillanceStation.CMS.GetDsStatus"\&cms_masked=true\&model="DS414j"\&port=5000$

Key	Value	Description	Availability
auth_key	<string></string>	Authorized Key of slave DS.	1 and onward
mac	<string></string>	Mac address of slave DS.	1 and onward
ds_model	<string></string>	Model of slave DS.	1 and onward
cookie	<string></string>	Cookie.	1 and onward
dp_version	<string></string>	Device package version of slave DS.	1 and onward
dsm_version	<string></string>	DSM version of slave DS.	1 and onward
serial_num	<string></string>	Serial number of slave DS.	1 and onward
ss_version	<string></string>	Surveillance Station version of slave DS.	1 and onward
status	<integer></integer>	Status of slave DS connection. O: 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	

```
{
  "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.

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

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

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"

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

cms_masked	<boolean></boolean>	Prevent other user to change the	1 and onward
		setting of recording server.	
cms_sync_time	<boolean></boolean>	Is the time of recording server	
		syncronized with host.	
cookie	<string></string>	Cookie.	1 and onward
default_license_c	<integer></integer>	Number of default license of slave ds.	1 and onward
nt			
dp_version	<string></string>	Device package version of slave ds.	1 and onward
dsm_version	<string></string>	DSM version of slave ds of slave ds.	1 and onward
serial_num	<string></string>	Serial number of slave ds.	1 and onward
ss_version	<string></string>	Surveillance Station version of slave ds.	1 and onward
status	<integer></integer>	Status of slave DS connection.	1 and onward
		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	

<camera_info_obj>

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

	• 4: Content error	
	• 5: Resolution error	
	6: Activating	
	• 7: Stopping	
<integer></integer>	Camera recording status.	1 and onward
	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	
<integer></integer>	Occuppied size.	1 and onward
<integer></integer>	Status flag.	1 and onward
<integer></integer>	live port.	1 and onward
<string></string>	live path.	1 and onward
	<integer> <integer> <integer></integer></integer></integer>	• 5: Resolution error • 6: Activating • 7: Stopping <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 • 5: Manual recording schedule • 6: External • 7: Analytics <integer> Cocuppied size. <integer> Iive port.</integer></integer></integer>

```
{
  "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.

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

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

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

GET /webapi/entry.cgi?

cms_sync_time=true&slavedsPort=5000&version="1"&slavedsCamCnt=1&slavedsIP="10.13.21.16"&slavedsName="DiskStation"&adminUsername="admin"&cms_locked=true&api="SYNO.SurveillanceStation.CMS.SlavedsWizard"&slavedsVersion="7.0-

 $3736 ``\&slavedsEnable=1\&cms_masked=true\&adminPasswd="123456"\&slavedsModel="DS414j"\&slavedsMaxCamNum=8\&slavedsId=""\&method="Save"$

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.

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.

Parameter	Value	Description	Availability
blNeedStatus	<boolean></boolean>	Optional.	1 and onward
		Get DS status or not.	
		If false, Get enabled DS only.	
		If not specified, the default value will be false.	
blGetSortInfo	<boolean></boolean>	Optional.	1 and onward
		Get list sort info or not.	
		If not specified, the default value will be false.	
blRuntimeInfo	<boolean></boolean>	Optional.	1 and onward
		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.	
slaveMode	-1 1	Optional.	1 and onward
		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.	
dsIds	<string></string>	Optional. The list of <ds_id> to be queried concatenated by</ds_id>	1 and onward
		",". If not specified, this parameter will be ignored and get all DS.	
sortInfo	<type,< td=""><td>Optional.</td><td>1 and onward</td></type,<>	Optional.	1 and onward
	Order>	Set sort info, blGetSortInfo must be true.	
		Type: • id	

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

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< td=""><td>The list of queried slave DS.</td><td>1 and onward</td></ds<>	The list of queried slave DS.	1 and onward
	Object>		
sortInfo	<type,order></type,order>	The sort info of slave DS list.	1 and onward
total	<integer></integer>	Total number of slave DS.	1 and onward

<DS Object> definition:

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

		4: Manual	1
		1. Wanda	
		5: Package uninstalled C: Package disabled	
r :1		6: Package disabled	
failoverServer	<string></string>	ld of failover server.	1 and onward
failoverServerSts	0 20	Connection status of failover server. O: 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	1 and onward
failoverStatus	0 4	 20: Unpaired Failover execution status 0: None 1: Failovering 2: Recovering 3: Failover error 4: Wait manual restore 	1 and onward
failover pair id	<integer></integer>	Pair ID of failover DS.	1 and onward
id	<integer></integer>	ID of slave DS.	1 and onward
ip	<string></string>	IP of slave DS.	1 and onward
key_total	<integer></integer>	The total number of licenses	1 and onward
key_used	<integer></integer>	The used number of licenses	1 and onward
max_cam_num	<integer></integer>	Maximum number of cameras can be set.	1 and onward
max io num	<integer></integer>	Maximum number of iomodules can be set.	1 and onward
max_speaker_dev _num	<integer></integer>	Maximum number of speakers can be set.	1 and onward
 max_trans_dev_n um	<integer></integer>	Maximum number of transactinos devices can be set.	1 and onward
name	<string></string>	Name of slave DS.	1 and onward
pkgStatus	0 12	Package execution status O: Unknow I: Running Stop	1 and onward

	1		,
		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></integer>	Port of slave DS.	1 and onward
quickConnectId	<string></string>	QuickConnect Id of slave DS.	1 and onward
recoverProgress	<integer></integer>	Recovering progress.	1 and onward
serial_num	<string></string>	Serial number of slave DS.	1 and onward
slave_mode	-1 1	Slave mode of slave DS.	1 and onward
		• -1: All	
		0: Recording	
		1: Failover	
ss_version	<string></string>	Surveillance Station version of slave DS.	1 and onward
status	0 20	Connection status of slave DS.	1 and onward
		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	
status_flags	0,1,2,4,16,32	Execution status of slave DS.	1 and onward
		• 0: None	
		• 1: Enabling	
		• 2: Disabling	
		4: Deleting	
		8: Locking	
		• 16: Unlocking	
L	_1	·	<u> </u>

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

```
"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": "168007N631502",
      "slave_mode": 0,
      "ss_version": "8.2.0-5705",
```

```
"status": 1,
    "status_flags": 0,
    "useHttps": false,
    "volSpace": 889.826252,
    "volStatus": 0
  },
    "accessToken": "IgojFoTfgr2xk1680NEN426804",
    "cms locked": true,
    "cms_masked": false,
    "connectType": 0,
    "cookie": "id=HdAcloIPThLeo",
    "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
  }
1,
"total": 2
```

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

2.3.17.2 API Error Code

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

2.3.18 SYNO.SurveillanceStation.Log

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

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

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

2.3.18.1 CountByCategory method

Get the count number of log in category.

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

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

GET /webapi/entry.cgi?

from = 0 & keyword DsId = ""&keyword = ""&level = ""&cameralds = ""&method = "CountByCategory" & to = 0 & api = "SYNO. SurveillanceStation. Log "&limit = 0 & srcType = 0 & version = "1" & filter Camera = "false" & dsId = 1 & start = 0 & timezoneOffset = 480 & time 2 String = "no"

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

		• -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></server_cnt>	Number of log of each server.	1 and onward
		• -1: Total number count.	
		X: Number count of server with X ld.	
total	integer	Total number of log.	1 and onward

<day_cnt> definition:

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

<type_cnt> definition:

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

<server_cnt> definition:

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

Example:

```
"date": {
    "-1": 2,
    "yyyy/mm/dd": {
        "am": 0,
        "-1": 2,
        "pm": 2
    }
},
"total": 2,
```

```
"log_type": {
    "1": 2,
    "3": 0,
    "2": 0,
    "-1": 2514
},
"server": {
    "X": 2,
    "-1": 2
}
```

2.3.18.2 Clear method

Clear the selected logs.

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

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

GET /webapi/entry.cgi?

from=0&version="1"&keyword=""&level=3&cameralds=""&to=0&api="SYNO.SurveillanceStation.Log"&blClearAll=false&srcType=0&filterCamera="false"&dsld=-1&method="Clear"&keywordDsld=""

Response

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

Example:

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

2.3.18.3 List method

Get the detail information of log.

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

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

GET /webapi/entry.cgi?

all=false&from=0&version="1"&keyword=""&level=""&cameralds=""&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	Information detail of log.	1 and onward
	<log_detail></log_detail>		
recCntData	<rec_cnt></rec_cnt>	Recent count of log information.	1 and onward
success	<boolean></boolean>	Success or not.	1 and onward
timestamp	<string></string>	Time stamp.	1 and onward
total	<integer></integer>	Total number of log.	1 and onward

<log_detail> definition:

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

<rec_cnt> definition:

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

total integer Total number of log.	1 and onward
------------------------------------	--------------

<day_cnt> definition:

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

<type_cnt> definition:

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

<server_cnt> definition:

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

Example:

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

```
"am": 0,
         "-1": 2,
         "pm": 2
       }
    },
     "total": 2,
    "log_type": {
       "1": 2,
       "3": 0,
       "2": 0,
       "-1": 2514
     "server": {
       "X": 2,
       "-1": 2
    }
  }
}
```

2.3.18.4 GetSetting method

Get advanced setting of logs.

Request

No parameter is required.

Example:

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

Response

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

<log_advanced_setting> definition:

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

2.3.18.5 SetSetting method

Set advanced setting of logs.

Request

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

<log_advanced_setting> definition:

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

Example:

```
\label{thm:p://192.168.1.1:5000/webapi/entry.cgi?} $$ api=SYNO.SurveillanceStation.Log&method=SetSetting&version=1&data=[{"SSLogType":321912835,"enable 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.

2.3.18.6 API Error Code

Code	Description
400	Execution failed.

2.3.19 SYNO.SurveillanceStation.License

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

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

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

2.3.19.1 Load method

Load license data.

Request

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

Example:

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

Response

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

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

```
"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	Optional.	1 and onward
	<caminfo></caminfo>	List of camera on the server.	
camServerId	<integer></integer>	Optional.	1 and onward
		Camera Server Id.	

<CamInfo> definition:

Key	Value	Description	Availability
ip	<string></string>	IP of the camera.	1 and onward
port	<integer></integer>	Port of the camera.	1 and onward

vendor	<string></string>	Vendor of the camera.	1 and onward
model	<string></string>	Model of the camera.	1 and onward

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

Response

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

2.3.19.3 API Error Code

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

2.3.20 SYNO.SurveillanceStation.Stream

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

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

Method Name	Section	Availability
EventStream	2.3.20.1	1 and onward

2.3.20.1 EventStream method

Get HTTP video stream of the specific recording event

Request

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

Example:

GET /webapi/entry.cgi?

version = "1" & write Header = true & mount Id = 0 & api = "SYNO. Surveillance Station. Stream" & analyevent = false & method = "Event Stream" & analyevent = false & method = "Event Stream" & analyevent = false & method = "Event Stream" & analyevent = false & method = "Event Stream" & analyevent = false & method = "Event Stream" & analyevent = false & method = "Event Stream" & analyevent = false & method = "Event Stream" & analyevent = false & method = "Event Stream" & analyevent = false & method = "Event Stream" & analyevent = false & method = "Event Stream" & analyevent = false & method = "Event Stream" & analyevent = false & method = "Event Stream" & analyevent = false & method = "Event Stream" & analyevent = false & method = "Event Stream" & analyevent = false & method = "Event Stream" & analyevent = false & method = "Event Stream" & analyevent = false & method = false &

Response

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

2.3.20.2 API Error Code

Code	Description
400	Execution failed.

2.3.21 SYNO.SurveillanceStation.ActionRule

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

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

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

2.3.21.1 Save method

Save the action rule.

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

		• 0: Camera.	
		• 1: External event.	
		• 2: Door.	
		3: Access controller.	
evtDsId	<integer></integer>	Conditional. When (not 'evtSrc' is equal to 1),	1 and onward
		The server id of event device.	
evtDevId	<integer></integer>	Conditional. When (not 'evtSrc' is equal to 1),	1 and onward
		The device id of event device.	
evtId	<integer></integer>	Required.	1 and onward
		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.	
evtltem	<integer></integer>	Conditional.	1 and onward
		When the camera support per alarm detection,	
		can choose the alarm channel1: All alarm	
		channel.	
evtMinIntvl	<integer></integer>	Conditional.	1 and onward
		The minimum interval to triggered rule. It would	
		be needed when the event is detected for many	
		times in the short time.	
Actions	Array of	Required	1 and onward
	<action> Object</action>	The specified Action to this rule.	
actSchedule	<string></string>	Required.	1 and onward
		The schedule of the rule to execute.	

<Action> Definition

Parameter	Value	Description	Availability
Id	<integer></integer>	Required	1 and onward
		The action id	
actSrc	<integer></integer>	Required.	1 and onward
		The action source.	
		• 0: Camera.	
		1: External command.	
		4: Surveillance Web Client	
actDsId	<integer></integer>	Conditional.	1 and onward
		The server id of action device.	
actDevId	<integer></integer>	Conditional.	1 and onward
		The device id of action device.	
actId	<integer></integer>	Required.	1 and onward
		• 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.	
actTimes	<integer></integer>	Conditional. When (('actId' is equal to 6 and	1 and onward
		'ruleType' is equal to 1) or ('actId' is equal to 4 and	
		'ruleType' is equal to 0) or ('actld' 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.	
actTimeUnit	<integer></integer>	Required.	1 and onward
		The time unit of the time duration.	
		• -2: Forever.	

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

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.

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

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

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	The list of action rule.	1 and onward
	<actionrule></actionrule>		
total	<integer></integer>	The total number of rules.	1 and onward

Example:

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

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

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></string>	Required.	1 and onward
		The list of rule id to be queried concatenated by	
		" "	

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

Example: