WeHome SDK Commands Description

Contents

History

Ver	Auth	Edit date	Changes
0.8.0	Dave	2018.7.23	New version

General description

The guide describes all the detailed information about the commands send to remote device (Battery doorbells, cameras, and etc). Both of request parameters and return values of the command are formatted as json string.

Each command's request content should contain the following parts:

cmdId	ID of the command (Refer to next part)
Other parameters	Parameter field if exists

And each command's return value should contain the following parts:

cmdId	ID of the command (Refer to Command ID)
result	Session check result (Refer to Session check result)
seq	The command sequence value equals to the seq parameter of sendCommand()

For example, the command used to get device info from remote device is formatted as following:

{"cmdId":512}

And the return value will be:

```
{
    "cmdId":512
    "result":0,
    "versionName":"1.3.0.0",
    "versionCode":1300,
    "productName":"LinkBell",
    "modelName":"M8",
    "powerFreq":0,
    "batPercent":40,
    "timeZone":28800,
    "timeDst":0,
    "langCode":1,
    "sdTotalMB":-1,
    "sdFreeMB":-1,
    "estimateRecordDays":-1,
    "recordMode":0,
    "talkVol":50,
}
```

Command ID

Each command has a unique command ID, the command ID is defined as following:

Command ID	Value	Description
EC_CMD_ID_OPEN_TALK	0x100	Open remote device's talk function
EC_CMD_ID_CLOSE_TALK	0x101	Close remote device's talk function
EC_CMD_ID_GET_DEV_INFO	0x200	Get device information, eg, firmware version, device name and etc.
EC_CMD_ID_SET_DEV_INFO	0x201	Save device information to remote.
EC_CMD_ID_CHANGE_PASSWORD	0x202	Change password of remote device
EC_CMD_ID_VIDEO_MIRROR	0x203	Mirror the video for remote device
EC_CMD_ID_VIDEO_FLIP	0x204	Flip the video of remote device
EC_CMD_ID_GET_PIR_INFO	0x205	Get PIR settings
EC_CMD_ID_SET_PIR_INFO	0x206	Set PIR settings
EC_CMD_ID_RESTORE_TO_FACTORY	0x207	Restore remote device to factory setting
EC_CMD_ID_FORMAT_SD_CARD	0x208	Format TF card mounted in remote device
EC_CMD_ID_GET_RECORD_BITMAP_BY_MON	0x300	Query which day contains record for special months
EC_CMD_ID_GET_PLAY_RECORD_LIST	0x301	Query record list by date
EC_CMD_ID_START_PLAY_EVENT_RECORD	0x302	Play remote video clip by event id and event time.
EC_CMD_ID_START_PLAY_RECORD	0x303	Play remote video clip by time.
EC_CMD_ID_STOP_PLAY_RECORD	0x304	Stop play remote video clip.
EC_CMD_ID_UPGRADE	0x306	Upgrade the firmware of a remote device

Session check result

Value	Description
0	Success
-1	Session non-existent or expired

Commands description

EC_CMD_ID_OPEN_TALK

Function	Open talk function for remote device	
Parameter	cmdId	Refer to Command ID
Return	cmdId	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
Note		

EC_CMD_ID_CLOSE_TALK

Function	Close talk function for remote device	
Parameter	cmdId	Refer to Command ID
Return	cmdId	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
Note		

EC_CMD_ID_GET_DEV_INFO

Function	Get device information	
Parameter	cmdId	Refer to Command ID
Return	cmdId	Refer to Command ID

	result	Refer to Session check result
	seq	Command sequence value
	versionName	Firmware version name，eg：1.3.0.0
	versionCode	Firmware version code，eg：1300
	productName	Product name，eg：LinkBell
	modelName	Product model name，eg：M8
	powerFreq	Power frequency，0 is 50HZ, 1 is 60HZ
	batPerCent	Battery remain percent: 0~100
	timeZone	Time zone in unit second, eg: 28800 means GMT+8, -28800 means GMT-8
	langCode	Language code, unused
	sdTotalMB	Total capacity of remote TF card in megabytes, -1 means TF card is unmounted.
	sdFreeMB	Remain size of remote TF card in megabytes, -1 means TF card is unmounted.
	estimateRecordDays	Estimate days the remote TF card can record
	recordMode	Record mode 0, Stop record if TF card is full. 1, Loop record
	talkVol	Microphone's volume of remote device，0~100
	timeDst	Day light saving int minutes，eg: -60 means -1Hour
Note		

EC_CMD_ID_SET_DEV_INFO

Function	Save device settings	
Parameter	cmdId	Refer to Command ID
	utcTime	UTC time
	timeZone	Time zone
	powerFreq	Power frequency, 0 is 50HZ, 1 is 60HZ
	langCode	Language code, unused

	recordMode	Record mode
	talkVol	Microphone's volume of remote device，0~100
	timeDst	Day light saving
Return	cmdId	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
Note		

EC_CMD_ID_CHANGE_PASSWORD

Function	Change password of remote device	
Parameter	cmdId	Refer to Command ID
	oldPsw	Old password
	newPsw	New password
Return	cmdId	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
	changePswRet	Result of change password: 0: Success -1: Change failed, old password check failed.
	eventChannel	Event channel for notification subscribe/Un-subscribe
Note	Event channel will be changed if remote password changed successfully.	

EC_CMD_ID_VIDEO_MIRROR

Function	Mirror the video for remote device	
Parameter	cmdId	Refer to Command ID
Return	cmdId	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
Note		

EC_CMD_ID_VIDEO_FLIP

Function	Flip the video of remote device	
Parameter	cmdId	Refer to Command ID
Return	cmdId	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
Note		

EC_CMD_ID_GET_PIR_INFO

Function	Get PIR settings	
Parameter	cmdId	Refer to Command ID
Return	cmdId	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
	enable	Motion detection is enable or not 0, Motion detection disabled 1, Motion detection is enabled
	sensitivity	Motion detection sensitivity 0, Low 1, Middle 2, High
	weekBitmap	Indicates which day's motion detection is enabled in a week. 0000000 --> Sun Mon ~~~ Fri Sat Eg: 0000001 means motion detection is enabled on Saturday and the others day is disabled. 1000000 means motion detection is enabled on Sunday and the others day is disabled. 1100000 means motion detection is enabled

		on Saturday and Monday, the others day is disabled.
	detectTimeSun	Detection time for Sunday, detectTimeSun=Start(Hour|Min) | End(Hour|Min) Eg：0x0901121E = Start(09|01) | End(18|30) means motion detection is enabled start from 9:01 to 18:30
	detectTimeMon	Detection time for Monday.
	detectTimeTue	Detection time for Tuesday.
	detectTimeWed	Detection time for Wednesday.
	detectTimeThu	Detection time for Thursday.
	detectTimeFri	Detection time for Friday.
	detectTimeSat	Detection time for Saturday.
	recordDuration	Unused
Note		

EC_CMD_ID_SET_PIR_INFO

Function	Set PIR settings	
Parameter	cmdId	Refer to Command ID
	enable	Motion detection is enable or not 0, Motion detection disabled 1, Motion detection is enabled
	sensitivity	Motion detection sensitivity 0, Low 1, Middle 2, High
	weekBitmap	Indicates which day's motion detection is enabled in a week. 0000000 --> Sun Mon ~~~ Fri Sat Eg: 0000001 means motion detection is enabled on Saturday and the others day is disabled. 1000000 means motion detection is enabled on Sunday and the others day is

		disabled. 1100000 means motion detection is enabled on Saturday and Monday, the others day is disabled.
	detectTimeSun	Detection time for Sunday， detectTimeSun=Start(Hour|Min) | End(Hour|Min) Eg：0x0901121E = Start(09|01) | End(18|30) means motion detection is enabled start from 9:01 to 18:30
	detectTimeMon	Detection time for Monday.
	detectTimeTue	Detection time for Tuesday.
	detectTimeWed	Detection time for Wednesday.
	detectTimeThu	Detection time for Thursday.
	detectTimeFri	Detection time for Friday.
	detectTimeSat	Detection time for Saturday.
	recordDuration	Unused
Return	cmdId	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
Note		

EC_CMD_ID_RESTORE_TO_FACTORY

Function	Restore remote device to factory setting	
Parameter	cmdId	Refer to Command ID
Return	cmdId	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
Note		

EC_CMD_ID_FORMAT_SD_CARD

Function	Format TF card mounted in remote device	
Parameter	cmdId	Refer to Command ID
Return	cmdId	Refer to Command ID

	result	Refer to [Session check result](#)
	seq	Command sequence value
	formatRet	Format result
		SD_FORMAT_RESULT_SUCCESS (0)
		SD_FORMAT_RESULT_FAIL_NOT_EXIST (-1)
		SD_FORMAT_RESULT_FAIL_UMOUNT_FAIL (-2)
		SD_FORMAT_RESULT_FAIL_UNKOWN (-3)
	sdTotalMB	Capacity of remote TF card in megabytes
	sdFreeMB	Remain size of remote TF card in megabytes
	estimateRecordDays	Estimate days the remote TF card can record
Note		

EC_CMD_ID_RECORD_BITMAP_BY_MON

Function	Query which day contains record for special months	
Parameter	cmdId	Refer to [Command ID](#)
	year	Year
	month	Month
Return	cmdId	Refer to [Command ID](#)
	result	Refer to [Session check result](#)
	seq	Command sequence value
	bitmap	Bitmap value indicates which day has record
		Eg:
		01000000000000000000000000000000
		Means the 31th day has record
		01000000000000000000000000000001
		Means the first day and 31th day have record
Note		

EC_CMD_ID_GET_PLAY_RECORD_LIST

Function	Query record list by date	
Parameter	cmdId	Refer to Command ID
Return	cmdId	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
Note		

EC_CMD_ID_START_PLAY_EVENT_RECORD

Function	Start play record by record ID and event time.	
Parameter	cmdId	Refer to Command ID
	eventTimeUTC	Event time in UTC seconds
	recordId	Record ID in payload of notification
Return	cmdId	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
Note		

EC_CMD_ID_START_PLAY_RECORD

Function	Start play record by file name	
Parameter	cmdId	Refer to Command ID
	pbFileName	Record file name
Return	cmdId	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
	startPbRet	Start playback result：START_PLAY_RECORD_RESULT_SUCCESS = 0, START_PLAY_RECORD_RESULT_TF_NOT_EXIST = -1, START_PLAY_RECORD_RESULT_FAIL_A

		LREADY_STARTED = -2, START_PLAY_RECORD_RESULT_OPEN _FILE_FAIL = -3, START_PLAY_RECORD_RESULT_EXCE ED_MAX_CONNECTION = -4, START_PLAY_RECORD_RESULT_FAIL_U NKOWN = -5, START_PLAY_RECORD_RESULT_FAIL_F ILE_NOT_EXIST = -6,
	videoWidth	Video width
	videoHeight	Video height
	totalFrame	Total frames of the video clip
	totalTime	Total time of the video clip
	supportSessioNo	Unused
Note		

EC_CMD_ID_STOP_PLAY_RECORD

Function	Stop play remote video clip.	
Parameter	cmdId	Refer to Command ID
Return	cmdId	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
Note		

EC_CMD_ID_UPGRADE

Function	Upgrade the firmware of a remote device	
Parameter	cmdId	Refer to Command ID
	url	Download URL of firmware to upgrade
Return	cmdId	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
Note		