Local Recording Service Requirements **v.1.00**

Revision History

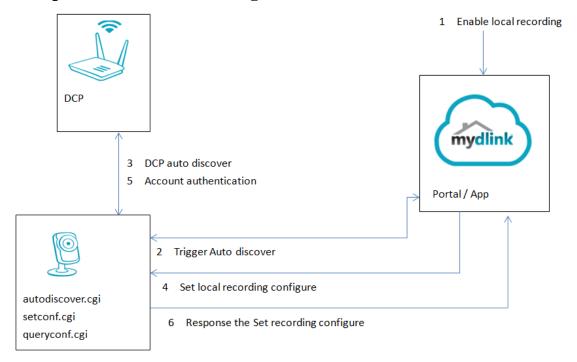
Version	Date	Author	Changes
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1. Local recording overview

Components of local recording function



1.1 Prerequisites of local recording integration

- 1. Device web server shall support HTTPS. All the CGIs shall be accessed via http or https.
- 2. The additional CGIs for local recording functions go same http authentication approach and devices password.
- 3. All http header for response about CGIs shall carry "<Access-Control-Allow-Origin:*/>"
- The cross domain policy file "crossdomain.xml" shall be placed in root directory of web server. About content of this file, please refer to APPENDIX A.
- 5. Execution hooks for local recording Web API refer to APPENDIX E.

1.2 Setup flow

- Enable local recording
 User enables local recording feature via mydlink clients (portal or apps).
- Trigger auto discover
 If the selected camera is local recording enabled, client launches

autodiscover.cgi of camera to search local recording enabled router in LAN.

3. Device discovery

autodiscover.cgi will broadcast DCP request to all devices in LAN. mydlink enabled devices bound to same account will respond the discover request.

4. Configure local recording function

Client launches setconf.cgi to apply local recording settings to camera. For more details, refer to "Set local recording config" on **Local recording Web API (Camera)**

5. Account authentication

setconf.cgi will launch initmapping (refer to 2.2.15) to router for account authentication and create storage mapping relationship. If everything's ok, the setconf.cgi stores all local recording configurations.

6. Response the set recording configure

Return the result of settings and account authentication.

2. Router (Storage Manager)

2.1 System Requirements

- 1. Volumes listing of attached USB storage
 - i. Mount point for external USB storage volume information shall be written in "/var/volume.conf". For more details please APPENDIX B.
 - ii. Support "mount" command for providing all external storage volume information
- 2. Builtin ffinepg libs with h264 decoder and jpeg encoder functions, including the following in system lib.
 - i. libavcodec.so
 - ii. libavutil.so
 - iii. libswscale.so

For more details refer the APPENDIX C.

- 3. Device web server shall support APIs defined in chapter 2.2.
- 4. Use NTP for time synchronization instead of modifying UTC time directly when user changes time zone.
- 5. Support "df" command with options -p/k/m/n.
- 6. Add mdb command "Irmapping". Please refer APPENDIX G.
- 7. Implementation of local recording Web API.

 Those Web APIs shall be implemented by execution hook. Web API shall parse and pass parameters to "localrec" program once received local recording APIs, and handle the response from "localrec" then returns the result to the clients. Please refer chapter 2, chapter 3 and APPENDIX E.
- 8. Execute "localrec -f 0" to initialize local recording volume mapping relationship when system boot up.
- 9. Add symbolic link "videostorage" in root directory of device web server points to /tmp/device.

2.2 Local recording Web API for router

All response shall return with json header except the response description of Web API indicates that it should adopt other type of header. Refer to APPENDIX D for json header and APPENDIX E for execution hook.

2.2.1 Get HLS playlist for video clip

Request:

GET /localrecording/getplaylist.m3u8

Parameters:

Key Name	Value	Description	
no	Integer	mydlink no.	
trigger	Integer	Timestamp of this request, in millisecond.	
target	Integer	Timestamp of target time of video, in millisecond. If	
		trigger-time is equal to target-time, live view mode	
		will be enabled.	

Example:

https://192.168.1.100/local recording/getplaylist.m3u8?no=111111111&trigger=1407654400004&target=1407654400004

Response:

Response example	Description
#EXTM3U	Success with mpeg header.
#EXT-X-TARGETDURATION:12	Follow m3u8 file format.
#EXT-X-MEDIA-SEQUENCE:0	
#EXTINF:6, no desc	
11111111/20141007/14/30/0058.ts	
#EXTINF:6, no desc	
11111111/20141007/14/30/0104.ts	
{	Fail
"result" : "Fail",	500 : Unavailable mydlink no.
"error_code" : 500	501: Timestamp format error
}	

2.2.2 Query start time of HLS playlist

Request:

GET /localrecording/querystarttime

Parameters:

Key Name Value	Description
----------------	-------------

no	Integer	mydlink no.
trigger	Integer	Timestamp in millisecond of this request

Example:

https://192.168.1.100/local recording/query start time? no=111111111 & trigger=1407654400004

Response:

	Response example	Description
{		Success
	"result": "Success",	
	"start_time" : 1401966022000	
}		
{		Fail
	"result" : "Fail",	500 : Expired start-time
	"error_code" : 500	
}		

2.2.3 Query event list in specified range

Request:

GET /localrecording/queryevent

Parameters:

Key Name	Value	Description
no	Integer	mydlink no.
time-from	Integer	Unix Timestamp of start time of target range
time-to	Integer	Unix Timestamp of end time of target range

Example:

https://192.168.1.100/local recording/queryevent? no=111111111 & time-from=1407654400 & time-to=1407654900

Response:

Event list with JSON object. Unix timestamp as key and event type as value.

```
{
                                   Success
    "result": "Success",
                                   256: Motion Event
    "data" : [
                                   512: Sound Event
       {"1378438335": 256},
       {"1378438345": 512},
       {"1378438355": 512}
     ]
}
                                   Fail
    "result": "Fail",
                                   500: Invaild mydlink no.
     "error_code": 500
                                   501: Timestamp format error
                                   502: time-to less than time-from
```

2.2.4 Query recorded time range data of playback video

Request:

GET /localrecording/querytimerange

Parameters:

Key Name	Value	Description	
no	Integer	mydlink no.	
time-from	Integer	Unix Timestamp of start time of target range	
time-to	Integer	Unix Timestamp of end time of target range	

Example:

https://192.168.1.100/local recording/query timerange? no=111111111 & time-from=1407654400 & time-to=1407654900

Response:

Time range list with JSON object, Unix timestamp of start as key and Unix timestamp of end time as value.

Response example	Description
{	Success
"result": "Success",	
"data" : [
{	
"time-from" : 1378438235,	
"time-to" : 1378438435	

```
},
{
    "time-from" : 1378438277,
    "time-to" : 1378438435
}

}

{
    "result" : "Fail",
    "error_code" : 500
}

Fail
500 : Unavailable mydlink no.
501 : Timestamp format error
502 : time-to less than
time-from
```

2.2.5 Download preview image of recorded video of specified time

Request:

GET /localrecording/preimage

Parameters:

Key Name	Value	Description
no	Integer	mydlink no.
time	Integer	UNIX Timestamp of preview image.

Example:

https://192.168.1.100/localrecording/preimage?no=11111111 & time = 1407654400

Response:

Response example	Description
302 redirect to image URL	Success with text header.
{	Fail
"result" : "Fail",	500 : Unavailable mydlink no.
"error_code" : 500	501: Timestamp format error
}	502: Preview image not found

2.2.6 Query list of video clip (cropped by user)

Request:

GET /localrecording/querylist

Parameters:

Key Name	Value	Description
no	Integer	mydlink no.

Example:

https://192.168.1.100/localrecording/querylist?no=111111111

Response:

JSON array contains clip information as elements

Index	Type	Description	
id:	Integer	Clip ID	
startime:	Integer	Unix timestamp	of start time
endtime:	Integer	Unix timestamp	of end time
title:	String	Title	
read:	Boolean	Already read?	

```
Response example
                                                      Description
                                              Success
{
    "result": "Success",
    "data" : [
          {
              "id": 1378111223000,
              "starttime" : 1378111220,
              "endtime": 1378111316,
              "title": "2013092_164020",
              "read" : "true"
           },
              "id": 1378111226000,
              "starttime": 1378111300,
              "endtime": 1378111316,
              "title": "2013092_164021",
              "read" : "true"
```

]	
}	
{	Fail
"result" : "Fail",	500 : Unavailable mydlink no.
"error_code" : 500	
}	

2.2.7 Query used time of video clip

Request:

GET /localrecording/queryusedtime

Parameters:

Name	Value	Description
no	Integer	mydlink no.

Example:

 $https:\!//192.168.1.100/local recording/query used time? no=111111111$

Response:

	Response example	Description
{		Success
	"time" : 50000	Estimated used time in second of video clip
}		
{		Fail
	"result" : "Fail",	500 : Unavailable mydlink no.
	"error_code": 500	
}		

2.2.8 Create video clip of specified time range

Request:

POST /localrecording/createclip

Parameters (Url-encoded POST Form Data):

Rey Name Value Description		Key Name	Value	Description	
----------------------------	--	----------	-------	-------------	--

no	Integer	mydlink no.
time-from	Integer	Unix Timestamp of start time of target range
time-to	Integer	Unix Timestamp of end time of target range
name	String	Specified name
		Maximum length is 256.

Example:

Response:

Response example	Description
{	Success
"result": "Success"	
}	
{	Fail
"result" : "Fail",	500: Unavailable mydlink no.
"error_code" : 500	501: Timestamp format error
}	502: time-to less than time-from

2.2.9 Delete a video clip

Request:

POST /localrecording/deleteclip

Parameters (Url-encoded POST Form Data):

Key Name	Value	Description
no	Integer	mydlink no.
clip-id	Integer	Video clip ID number

Example:

no = 111111111 & clip-id = 1378111223000

Response:

Response example	Description
{ "result" : "Success" }	Success

{	Fail
"result" : "Fail",	500: Unavailable mydlink no.
"error_code" : 500	501: Unavailable clip-id
}	502 : Write protect

2.2.10 Rename a video clip

Request:

POST/localrecording/renameclip

Parameters (Url-encoded POST Form Data):

Key Name	Value	Description
no	Integer	mydlink no.
clip-id	Integer	Video clip ID number.
new-name	String	New name about the video clip in http
		body

Example:

 $no=111111111\&clip-id=1378111223000\&\,new-name=mydlink\%2B$

Response:

	Response example	Description
{		Success
	"result": "Success"	
}		
{		Fail
	"result" : "Fail",	500 : Unavailable mydlink no.
	"error_code": 500	501 : Unavailable clip-id
}		502 : Write protect

2.2.11 Update read status of a video clip

Request:

GET /localrecording/clipstatus

Parameters:

	Key Name	Value	Description
--	----------	-------	-------------

no	Integer	mydlink no.
clip-id	String	Clip-id
status	Integer	1 : read
		0 : unread

Example:

 $https://192.168.1.100/local recording/clipstatus? no=111111111 \&clip-id=14010000 \\00\&status=1$

Response:

Response example	Description
{	Success
"result": "Success"	
}	
{	Fail
"result" : "Fail",	500: Unavailable mydlink no.
"error_code" : 500	501 : Unavailable clip-id
}	

2.2.12 Query list of story boarding

Request:

GET /localrecording/qsboarding

Parameters:

Key Name	Value	Description
no	Integer	mydlink no.
time-from	Integer	Unix Timestamp of start time of target ran
time-to	Integer	Unix Timestamp of end time of target ran ge
gap	Integer	The time gap between each preview image in second.

Exampe:

https://192.168.1.100/local recording/qsboarding? no=111111111 & time-from=1401230000 & time-to=1401240000 & gap=6

Response:

Response example	Description
{	Success.
"result": "Success",	Entry format
"data" :	{Timestamp}, {preview-image in
[based-64 format}
{	Entries are separated with new line.
"timestamp": 1411111111,	
"value":"YXNkZmFkZmFkZmFzZGZhc1Q="	
}	
,	
{	
"timestamp": 1411111117,	
"value":"YXNkZmFkZmFkZmFzZGZhc2Q="	
}	
]	
}	
{	Fail
"result" : "Fail",	500 : Unavailable mydlink no
"error_code" : 500	501 : Unavailable clip-id
}	502 : Timestamp format error
	503: time-to less than time-from

2.2.13 Upload clip

Request:

POST /localrecording/uploadclip

Upload clip in a form using multipart/form-data. The form should contain below Content-Dispositions.

Content-Disposition

Name	Value	Description
no	Integer	mydlink no
timestamp	Integer	Unix Timestamp of this file

file-name	String	File name of clip
duration	Integer	Clip's length in seconds

Remake:

1. Refer APPENDIX F for more details.

Response:

Response example	Description
{	Success
"result": "Success"	
}	
{	Fail
"result" : "Fail",	500 : Unavailable mydlink no.
"error_code" : 500	501: Timestamp format error
}	

2.2.14 Event notify

Request:

POST /localrecording/eventnotify

Parameters (Url-encoded POST Form Data):

Key Name	Value	Description
no	Integer	mydlink no.
event-type	Integer	Unix Timestamp of start time of target range
timestamp	Integer	Unix Timestamp of end time of target range

Exampe:

no=111111111&event-type=512×tamp=1401240000

Response:

Response example	Description
{	Success
"result": "Success"	
}	
{	Fail

"result" : "Fail",	500 : Unavailable mydlink no
"error_code" : 500	501: Timestamp format error
}	501: Event format error

2.2.15 Initialize mapping

Request:

POST/localrecording/initmapping

Parameters (Url-encoded POST Form Data):

Key Name	Value	Description
no	Integer	mydlink no.
volume-path	String	Volume's full path

Exampe:

no=11111111 &volume-path=%2Ftmp%2Fstorage%2FUFD_Silicon_02780

Response:

Response example	Description
{	Success
"result": "Success"	
}	
{	Fail
"result" : "Fail",	500: auth fail.
"error_code" : 500	501: invalid volume path.
}	

3. Camera (Video Streamer)

3.1 System Requirement

- 1. Device web server shall support all APIs defined in 3.2.
- 2. Use NTP for time synchronization instead of modifying UTC time directly when user changes time zone.

3.2 Local recording Web API for camera

3.2.1 Auto discover

Request:

GET /localrecording/autodiscover.cgi

Parameters: none

Remake:

The API shall be implemented by execution hook. Refer to APPENDIX E for more details.

Response:

Response the storage information of router resides in LAN.

Response example	Description
{	Success.
"result": "Success",	Found two volumes,
"data" : [Verbatim_110E6 at
{	192.168.0.15 with 1475KB
"mydlink no": "11111111",	free space/145252KB total
"UID": "Verbatim_110E6",	space and Verbatim_220F7
"Free":1475,	at 192.168.0.150 with
"Total":145252,	14750KB free
"ip":"192.168.0.15"	space/1452520KB total space.
},	
{	
"mydlink no": "11111111",	
"UID": "Verbatim_220F7",	
"Free":14750,	

3.2.2 Set local recording config

Request:

POST /localrecording/setconf.cgi

Remark:

setconf.cgi will launch initmapping (refer to 2.2.15) to router for account authentication.

Parameters (Url-encoded POST Form Data):

Key Name	Value	Description
enable	Integer in 0, 1	0= Disable
		1= Enable
policy	Integer in 0,1 or 2	0 = Always
		1 = Schedule recording
		2 = Event triggered
day	String	Day of the week for schedule
		recording. Represent day of week in
		bit string start with Monday. For
		example, 0101010 represent Tuesday,
		Thursday, Saturday.
period	String	Period for schedule recording. For
		example, 14301730 represent the
		period from 14:30 to 17:30.
UID	String	Storage volume description. It might
		be volume name or HW description.
overwrite	Integer in 0 and 1	0 = Overwrite the oldest part
		1 = Stop the recording when storage
		device is full.

account	String	Router's account
password	String	Router's password
no	Integer	Router's mydlink no.
ip	String	Router's ip.

Example:

enable=1&policy=1&day=0101010&period=14301730&UID=

Verbatim_220F7&

overwrite=1&account=admin&password=mydlink%2B&no=111111111 & ip=192.16 8.0.150

Response:

Response example	Description
{	Success
"result": "Success"	
}	
{	Fail
"result" : "Fail",	500: Format error
"error_code" : 500	505: Auth failed
}	

3.2.3 Query local recording config

Request:

GET /localrecording/queryconf.cgi

Parameters: none

Response:

Response example	Description
{	The local recording setting is
"enable": 1,	Schedule recording, recording from 14:30 to
"policy": 1,	17:30 at Tuesday, Thursday and Saturday,
"day": "0101010",	target storage device is "Verbatim_220F7"
"period": "14301730",	with the policy to overwrite the oldest part
"UID" : "Verbatim_220F7",	when space is full. The target router storage
"overwrite": 1,	account/password is admin/mydlink+ at
"account": "admin",	192.168.0.150.
"password" : "mydlink+",	

"no": 11111111, "ip": "192.168.0.150"	
}	
{	Fail
"result" : "Fail",	500 : Internal error
"error_code" : 500	
}	

APPNEDIX A CROSSDOMAIN.XML

The content of crossdomain.xml

APPENDIX B VOLUME INFORMATION

System shall maintain volumes information attached to system in /tmp/volume.conf, information below.

</path/to/the/mount-point>

For example:

1.

/var/tmp/storage/volume-name

2.

/var/tmp/storage/volume-name0 /var/tmp/storage/volume-name1

APPENDIX C FFMEPG LIBRARY

How to generate libavcodec.so, libavutil.so and libswscale.so

- 1. Download ffmpeg 0.65.
- 2. Configure ffmpeg with suitable parameters. For example ./configure --enable-cross-compile --cc=arm-linux-gcc --arch=arm --target-os=linux --enable-shared --enable-gpl --disable-everything -enable-shared --enable-decoder=h264 --enable-encode=mjpeg

APPENDIX D HTTP HEADER

mpeg header:

"Content-Type: application/vnd.apple.mpegurl"

Access-Control-Allow-Origin: *

Cache-Control: no-cache

Pragma: no-cache

json header:

Content-Type: application/json Access-Control-Allow-Origin: *

Cache-Control: no-cache

Pragma: no-cache

text header:

Content-Type: text/plain; charset=utf-8

APPENDIX E EXECUTION HOOK COMMAND MAPPING

1. All the parameter value must be URL-encoded.

For example:

no = 111111111 & time-from = 1400000000 & time-to = 1401000000 & name = mydlink % 2B

mydlink%2B is the url-encoded format of mydlink+.

2. "localrec" will return result in json format as the response body defined in each API.

Web APIs	Execution hook command example
2.2.1 Get HLS	Input
playlist for video	getplaylist.m3u8?no=11111111 & trigger=1407654400004 & target=
clip	1407654400004
	Execute
	localrec -f 11 -n 11111111 -t 1407654400004 -r 1407654400004
2.2.2 Query start	Input
time of HLS	querystarttime?no=11111111 & trigger=1407654400004

playlist	Execute
	localrec -f 12 -n 11111111 -t 1407654400004
2.2.3 Query event	Input
list in specified	queryevent?no=11111111 & time-from=1407654400 & time-to=140
range	7654900
	Execute
	localrec -f 13 -n 11111111 -r 1407654400 -t 1407654900
2.2.4 Query	Input
recorded time	querytimerange?no=11111111 & time-from=1407654400 & time-to
range data of	=1407654900
playback video	Execute
	localrec -f 14 -n 11111111 -r 1407654400 -t 1407654900
2.2.5 Download	Input
preview image of	preimage?no=111111111&time=1407654400
recorded video of	Execute
specified time	localrec -f 15 -n 11111111 -t 1407654400
2.2.6 Query list of	Input
video clip	querylist?no=11111111
	Execute
	localrec -f 16 -n 11111111
2.2.7 Query used	Input
time of video clip	queryusedtime?no=11111111
	Execute
	localrec -f 17 -n 11111111
2.2.8 Create	Input
video clip of	no=11111111&time-from=1400000000&time-to=1401000000&
specified time	name= mydlink%2B
range	Execute
	localrec -f 18 -n 11111111 -r 1400000000 -t 1401000000 -m
	mydlink%2B
2.2.9 Delete a	Input
video clip	no=111111111&clip-id=1378111223000
	Execute
	localrec -f 19 -n 11111111 -i 1378111223000
2.2.10 Rename a	Input
video clip	no=111111111&clip-id=1378111223000&new-name=mydlink%
	2B
	Execute

localrae f 20 n 11111111 i 1279111222000 a midlimla 2D
localrec -f 20 -n 11111111 -i 1378111223000 -e mydlink%2B
Input
clipstatus?no=111111111 & clip-id=1401000000 & status=1
Execute
localrec -f 21 -n 11111111 -i 1401000000 -s 1
Input
qsboarding?no=111111111 & time-from=1401230000 & time-to=140
1240000⪆=6
Execute
localrec -f 22 -n 11111111 -r 1401230000 -t 1401240000 -g 6
Input
no=111111111×tamp=1411110223&file-name=1411110
223.ts
Execute
localrec -f 23 -n 11111111 -t 141110223 -a 1411110223.ts -p
file-path.
Remark
This CGI shall launch "localrec" with the parameter "-p" about
This CGI shall launch "localrec" with the parameter "-p" about full path of the uploaded file.
full path of the uploaded file.
full path of the uploaded file. Input
full path of the uploaded file. Input eventnotify?no=111111111 & event-type=512 & timestamp=1401240
full path of the uploaded file. Input eventnotify?no=111111111 & event-type=512 & timestamp=1401240 000
full path of the uploaded file. Input eventnotify?no=111111111 & event-type=512 & timestamp=1401240 000 Execute
full path of the uploaded file. Input eventnotify?no=111111111 & event-type=512 & timestamp=1401240 000 Execute localrec -f 24 -n 11111111 -e 512 -t 1401240000
full path of the uploaded file. Input eventnotify?no=111111111 & event-type=512 & timestamp=1401240 000 Execute localrec -f 24 -n 11111111 -e 512 -t 1401240000 Input
Input eventnotify?no=111111111&event-type=512×tamp=1401240 000 Execute localrec -f 24 -n 11111111 -e 512 -t 1401240000 Input no=11111111&volume-path=%2Ftmp%2Fstorage%2FUFD_Silic
full path of the uploaded file. Input eventnotify?no=111111111 & event-type=512 & timestamp=1401240 000 Execute localrec -f 24 -n 11111111 -e 512 -t 1401240000 Input no=111111111 & volume-path=%2Ftmp%2Fstorage%2FUFD_Silic on_02780
Input eventnotify?no=111111111 & event-type=512 & timestamp=1401240 000 Execute localrec -f 24 -n 11111111 -e 512 -t 1401240000 Input no=11111111 & volume-path=%2Ftmp%2Fstorage%2FUFD_Silic on_02780 Execute

APPENDIX F HTTP MULTIPART POST

POST /camera_upload.php HTTP/1.1

Host: 192.168.0.1

Content-Length: 25035 Authorization: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ== Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryfYeskH534ISMqbtp -----WebKitFormBoundaryfYeskH534ISMqbtp Content-Disposition: form-data; name="no" 8888888 $\hbox{-----} WebKitFormBoundaryfYeskH534ISMqbtp}\\$ Content-Disposition: form-data; name="timestamp" 1413275553 -----WebKitFormBoundaryfYeskH534ISMqbtp Content-Disposition: form-data; name="file-name"; filename="0856.ts" Content-Type: video/vnd.dlna.mpeg-tts <File content> -----WebKitFormBoundaryfYeskH534ISMqbtp--APPENDIX G MDB COMMAND mdb set Irmapping command format: mydlink_no:volume_path&mydlink_no:volume_path&...... All the value of each entry must be "URL encoded" For example: 1. mdb set Irmapping 11111111%3A%2Ftmp%2Fstorage%2FUFD_Silicon_02780%2622222222%3A%2Ft mp%2Fstorage%2FUFD_Silicon_02781 2. mdb get Irmapping Response:

11111111%3A%2Ftmp%2Fstorage%2FUFD_Silicon_02780%2622222222%3A%2Ft

mp%2Fstorage%2FUFD_Silicon_02781