

# UDVGuard

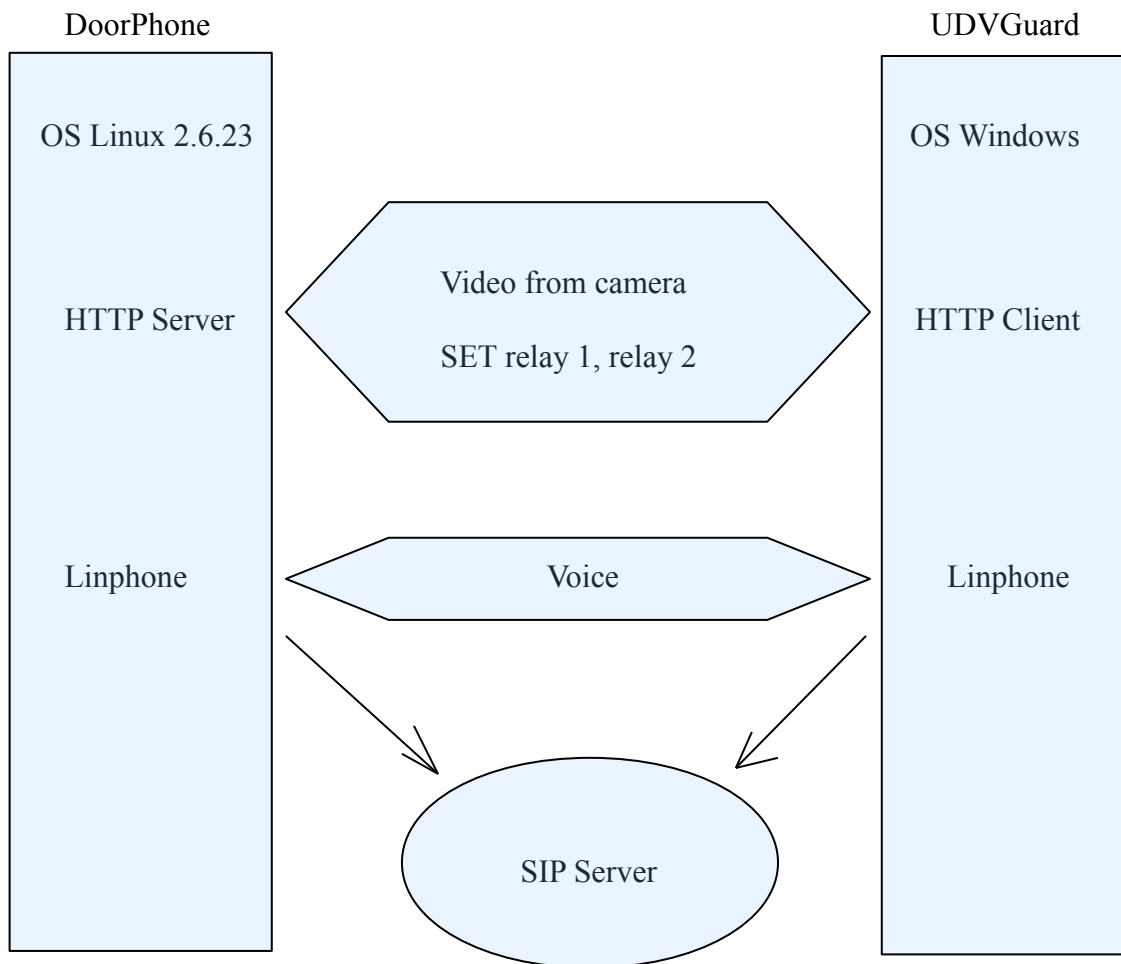
## Low level communication (LLC)



Version: 2.18  
Language: English  
Date: 2011/10/24

## Introduction:

UDVGuard.exe is an ActiveX component communicating with the DoorPhone via Ethernet connections. The DoorPhone includes Linux operating system. On Linux there are some applications running, which communicate with UDVGuard program.



## Video transfer from the camera:

HTTP connection is used for the video transfer (port 80 as a standard).

Client: (open connection)  
GET /video.mjpg HTTP/1.1  
User-Agent: UDVGard\_2.18  
Host: 192.168.1.250

Server: (open connection – answer) (Main header)  
HTTP/1.0 200 OK  
Cache-Control: no-cache  
Pragma: no-cache  
Expires: Thu, 01 Dec 1994 16:00:00 GMT  
Connection: close  
Content-Type: multipart/x-mixed-replace; boundary=--tojekonec

Server: (The header of new videoframe) (Sub header)  
Content-Type: image/jpeg  
Content-Length: 17600 // length of the videoframe  
Current-Call: 0 // status of DoorPhone buttons (0 – not pressed,  
1,2 - pressed)  
Title: guard // the name of DoorPhone  
..... video data of JPEG

Server: (The header of new videoframe) (Videodata)  
Content-Type: image/jpeg  
Content-Length: 17600 // length of the videoframe  
Current-Call: 0  
Title: guard // the name of DoorPhone  
..... video data of JPEG

... etc to length of videoframe and then new image

Server: (The header of new videoframe) (Sub header)  
Content-Type: image/jpeg  
Content-Length: 17600 // length of the videoframe  
Current-Call: 0 // status of DoorPhone buttons (0 – not pressed,  
1,2 - pressed)  
Title: guard // the name of DoorPhone  
..... video data of JPEG

Server: (The header of new videoframe) (Videodata)  
Content-Type: image/jpeg  
Content-Length: 17600 // length of the videoframe  
Current-Call: 0  
Title: guard // the name of DoorPhone  
..... video data of JPEG

... etc while not disconnected

## Set Relay:

HTTP connection is used for setting the relay (port 80 as a standard).

Client: (open connection)  
GET /cgi-bin/remctrl.sh?id=relay1 HTTP/1.1 //relay1, relay2  
User-Agent: UDVGuard\_2.18  
Host: 192.168.1.250

Server: (answer)  
HTTP/1.1 200 OK  
Date: Thu, 01 Jan 1970 01:11:17 GMT  
Server: Boa/0.94.14rc20  
Accept-Ranges: bytes  
Connection: close  
Content-type: text/html

(Close connection)

## Call:

Linphone, a standard softphone, is used for the voice transfer (making a phone call). See [www.linphone.org](http://www.linphone.org) for more details.

## Connection Events:

Connection Events provides events information and actual settings from DoorPhone to client. The client can not change this settings via connection Events.

Client: (open connection)  
GET /events.txt HTTP/1.1  
User-Agent: UDVGuard\_2.18  
Host: 192.168.1.250

Server: (answer) (actual settings of all internal parameters)  
HTTP/1.1 200 OK  
Cache-Control: no-cache  
Pragma: no-cache  
Expires: Thu, 01 Dec 1994 16:00:00 GMT  
Connection: keep-alive  
Content-Type: text/plain

[global] (section name – global informations)  
VERSION="1.65" (item of this section – version of firmware)

[basemy]  
SWITCH\_DAYNOC="0"  
SENSOR1\_ENABLE="1" (door sensor 1 present)  
SENSOR2\_ENABLE="1" (door sensor 2 present)

[vidcap] (camera parameters)

VID\_0\_NAME="IMAGE\_SIZE"  
VID\_0\_TITLE="Image size"  
VID\_0\_CTRL\_TYPE="menu"  
VID\_0\_VALUE="320x240"  
VID\_0\_DEFAULT="320x240"  
VID\_0\_ITEM\_0\_VALUE="640x480"  
VID\_0\_ITEM\_0\_TITLE="640 &times; 480"  
VID\_0\_ITEM\_1\_VALUE="352x288"  
VID\_0\_ITEM\_1\_TITLE="352 &times; 288"  
VID\_0\_ITEM\_2\_VALUE="320x240"  
VID\_0\_ITEM\_2\_TITLE="320 &times; 240"  
VID\_0\_ITEM\_3\_VALUE="176x144"  
VID\_0\_ITEM\_3\_TITLE="176 &times; 144"  
VID\_0\_ITEM\_4\_VALUE="160x120"  
VID\_0\_ITEM\_4\_TITLE="160 &times; 120"  
VID\_1\_NAME="IMAGE\_PER\_SEC"  
VID\_1\_TITLE="Frames per second"  
VID\_1\_CTRL\_TYPE="menu"  
VID\_1\_VALUE="2"  
VID\_1\_DEFAULT="2"  
VID\_1\_ITEM\_0\_VALUE="1"  
VID\_1\_ITEM\_0\_TITLE="1"  
VID\_1\_ITEM\_1\_VALUE="2"  
VID\_1\_ITEM\_1\_TITLE="2"  
VID\_1\_ITEM\_2\_VALUE="3"  
VID\_1\_ITEM\_2\_TITLE="3"  
VID\_1\_ITEM\_3\_VALUE="4"  
VID\_1\_ITEM\_3\_TITLE="4"  
VID\_1\_ITEM\_4\_VALUE="5"  
VID\_1\_ITEM\_4\_TITLE="5"  
VID\_2\_NAME="BRIGHTNESS"  
VID\_2\_TITLE="Brightness"  
VID\_2\_CTRL\_TYPE="int"  
VID\_2\_VALUE="50"  
VID\_2\_DEFAULT="0"  
VID\_2\_MIN="-64"  
VID\_2\_STEP="1"  
VID\_2\_MAX="127"  
VID\_3\_NAME="CONTRAST"  
VID\_3\_TITLE="Contrast"  
VID\_3\_CTRL\_TYPE="int"  
VID\_3\_VALUE="50"  
VID\_3\_DEFAULT="0"  
VID\_3\_MIN="0"  
VID\_3\_STEP="1"  
VID\_3\_MAX="95"

VID\_4\_NAME="COLOUR"  
VID\_4\_TITLE="Saturation"  
VID\_4\_CTRL\_TYPE="int"  
VID\_4\_VALUE="64"  
VID\_4\_DEFAULT="0"  
VID\_4\_MIN="0"  
VID\_4\_STEP="1"  
VID\_4\_MAX="150"  
VID\_5\_NAME="HUE"  
VID\_5\_TITLE="Hue"  
VID\_5\_CTRL\_TYPE="int"  
VID\_5\_VALUE="0"  
VID\_5\_DEFAULT="0"  
VID\_5\_MIN="-40"  
VID\_5\_STEP="1"  
VID\_5\_MAX="40"  
VID\_6\_NAME="GAMMA"  
VID\_6\_TITLE="Gamma"  
VID\_6\_CTRL\_TYPE="int"  
VID\_6\_VALUE="25"  
VID\_6\_DEFAULT="25"  
VID\_6\_MIN="1"  
VID\_6\_STEP="1"  
VID\_6\_MAX="100"

[net]

DHCP\_CLIENTID="udv\_guard"  
IP\_ADDR="192.168.1.250"  
NET\_MASK="255.255.0.0"

(net settings)

(the name of this DoorPhone)  
(his IP address)  
(his mask of site)

[vcodec]

CODEC1="H263"  
CODEC2="H264"

(available video codecs)

[video]

IMAGE\_SIZE="320x240"  
IMAGE\_PER\_SEC="2"  
BRIGHTNESS="50"  
COLOUR="64"  
CONTRAST="50"  
HUE="0"  
AUTOBRIGHT="1"  
QUALITY="4"  
WHITENESS="0"  
LIGHT\_FREQ="60"

(picture settings)

[numb1]

DAY\_BUTTON1=""  
NIGHT\_BUTTON1=""  
DAY\_BUTTON2=""  
NIGHT\_BUTTON2=""  
DAY\_BUTTON3=""

(call numbers)

NIGHT\_BUTTON3=""  
DAY\_BUTTON4=""  
NIGHT\_BUTTON4=""  
DAY\_BUTTON5=""  
NIGHT\_BUTTON5=""  
DAY\_BUTTON6=""  
NIGHT\_BUTTON6=""  
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DAY\_BUTTON63=""  
NIGHT\_BUTTON63=""  
DAY\_BUTTON64=""  
NIGHT\_BUTTON64=""

[audio]

(available audio codecs)

CODEC1="PCMU"  
CODEC2="PCMA"  
CODEC3="G726-32"  
CODEC4="GSM"

[trig]

TRIG\_SEN1\_MODE=""  
TRIG\_SEN1\_DAYNIGHT=""  
TRIG\_SEN1\_DAY=""  
TRIG\_SEN1\_NIGHT=""  
TRIG\_SEN1\_PHONE=""  
TRIG\_SEN1\_TIMERUN=""  
TRIG\_SEN1\_HANDLECALL=""  
TRIG\_SEN2\_MODE=""  
TRIG\_SEN2\_DAYNIGHT=""  
TRIG\_SEN2\_DAY=""  
TRIG\_SEN2\_NIGHT=""  
TRIG\_SEN2\_PHONE=""  
TRIG\_SEN2\_TIMERUN=""  
TRIG\_SEN2\_HANDLECALL=""  
TRIG\_TIMEDELAY=""

[time]

TIME\_CALL=""  
NUMBER\_RING=""  
TIME\_BETW\_BUTTON=""  
TIME\_CALLDOWN=""  
TIME\_BEFORE\_CALL=""  
ACOUSTIC\_RING=""

[lang] (localization)  
LANG=".e.tina"

[base]  
MODE\_NUMBSELECT=""  
CHAR\_CALLDOWN1=""  
CHAR\_CALLDOWN2=""  
CHAR\_CALL\_ADVANCED=""  
CODE\_DAY=""  
CODE\_NIGHT=""  
KEYB\_MODE=""  
KEYB\_POSITION=""  
BACKLIGHT\_MODE=""

[sip] (SIP server settings)  
SIP\_SERVER\_PORT="5060"  
SIP\_REGISTRAR\_PORT="5060"  
SIP\_ACCOUNT\_EXPIRE="600"

[ui] (user interfaces)  
VID\_WWW\_ENABLE="1"  
VID\_RTP\_ENABLE="1"  
VID\_SURVEILLANCE\_ENABLE="1"  
HTTP\_PORT="80"  
TELNET\_ENABLE="0"

[stat]  
STAT\_SW\_VERSION=""  
STAT\_DAY=""  
STAT\_RESET\_CNT=""

Server: (answer) (starting events)

[evstat] (call off)  
EVENT="CALL"  
CALL=""

[evstat] (relay 1 off)  
EVENT="GUARD"  
MESSAGE="1S0"

[evstat] (relay 2 off)  
EVENT="GUARD"  
MESSAGE="2S0"

[evstat] (door sensor 1 on, valid if sensor 1 enabled)  
EVENT="GUARD"  
MESSAGE="1D1"

[evstat] (door sensor 2 on, valid if sensor 2 enabled)  
EVENT="GUARD"  
MESSAGE="2D1"

Server: (answer) (events on run)

[event] (relay 1 on)  
EVENT="GUARD"  
MESSAGE="1S1"

Server: (answer) (events on run)

[event] (relay 1 off)  
EVENT="GUARD"  
MESSAGE="1S0"

Server: (answer) (events on run)

[event] (incomming call to DoorPhone)  
EVENT="CALL"  
CALL="I"  
FROM="sip:UDVGuard\_2.18@192.168.1.1"  
REQ="sip:192.168.1.250"

Server: (answer) (events on run)

[event] (call off)  
EVENT="CALL"  
CALL=""

Server: (answer) (events on run)

# (time stamp "connection ready")

.... etc