Video Protocol
for Grandstream DVS/IP camera

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Introduction

This document defines the protocol which is used by the client application and the DVS/IP camera to get or change the video settings.

Video Protocol

Message Format

    CMD:VCTRL   MCTP/1.0   CS\n
    @C_TYPE @CH@ BRITHTNESS @CONTRAST@ SATURATION @\n
    END\n

NOTE:

1. Fill in 0 for the parameters which are not used
2. C_TPYE.   Set C_TYPE = VIDEO_GET_VALUE to get the current video settings
            Set C_TYPE = VIDEO_SET_VALUE to set video settings.
3. CH – Channel ID.   0<=CH<=3
4. BRIGHTNESS – Brightness value.   0<=BRIGHTNESS<=255
5. CONTRAST – Contrast value.   0<=BRIGHTNESS<=255
6. SAUTRATION – Saturation value.   0<=BRIGHTNESS<=255

Request and Response Examples

1. Command to modify the video parameters of channel 1
    Client sends request to the DVS/IP Camera
        CMD:VCTRL MCTP/1.0 CS\n
        @VIDEO_SET_VALUE@0@120@130@140@\n
        END\n
    DVS/IP Camera responds the request
        CMD:VCTRL MCTP/1.0 SC\n
        @ VIDEO_SET_VALUE@0@RESULT@\n
        END\n
     NOTE: RESULT – Execution Result.
            RESULT =1 indicates success;
            RESULT =0 indicates failure

2. Command to get video parameters of channel 2
    Client sends request to the DVS/IP Camera
        CMD:VCTRL MCTP/1.0 CS\n
        @VIDEO_GET_VALUE@1@0@0@0@\n

    END\n
DVS/IP Camera responds the request
    CMD:VCTRL MCTP/1.0 SC\n
    @VIDEO_GET_VALUE@1@BRIGHTNESS@   CONTRAST@   SATURATION
@\n
    END\n

change_video_statu.h

```
#ifndef _CHANGE_VIDEO_STATU_
#define _CHANGE_VIDEO_STATU_

#define VIDEO_GET_VALUE      1
#define VIDEO_SET_VALUE      2

#define VIDEO_RESULT_OK      1
#define VIDEO_RESULT_FAIL    0

#endif
```