Case study configuration Asterisk v. 1.4.18.1

On this vision of Asterisk i tis necessary to change constant in source code and then translate. This step might be solved all ready in any further versions. In version 1.6 should be video support much better. Asterisk in the case is not behaving in standard way however it works with it.

1. Change payload type for H.264 in Asterisk (Helios IP is using payload type no. 126 for video (H.264), Asterisk is using for H.264 no. 99 by default. There is need to change the H.264 payload type on Astrerisk):

1. In the source code files, find out the RTP.c file (in the "main" folder). Find out this line "[99] = {1, AST_FORMAT_H264}," and modify the [99] to [126]. The result should look like
this:

```
static struct rtpPayloadType static_RTP_PT[MAX_RTP_PT] = {
.       [0] = {1, AST_FORMAT_ULAW},
#ifdef USE_DEPRECATED_G726
.       [2] = {1, AST_FORMAT_G726}, /* Technically this is G.721, but if Cisco can do it, so can we... */
#endif
.       [3] = {1, AST_FORMAT_GSM},
.       [4] = {1, AST_FORMAT_G723_1},
.       [5] = {1, AST_FORMAT_ADPCM}, /* 8 kHz */
.       [6] = {1, AST_FORMAT_ADPCM}, /* 16 kHz */
.       [7] = {1, AST_FORMAT_LPC10},
.       [8] = {1, AST_FORMAT_ALAW},
.       [9] = {1, AST_FORMAT_G722},
.       [10] = {1, AST_FORMAT_SLINEAR}, /* 2 channels */
.       [11] = {1, AST_FORMAT_SLINEAR}, /* 1 channel */
.       [13] = {0, AST_RTP_CN},
.       [16] = {1, AST_FORMAT_ADPCM}, /* 11.025 kHz */
.       [17] = {1, AST_FORMAT_ADPCM}, /* 22.050 kHz */
.       [18] = {1, AST_FORMAT_G729A},
.       [19] = {0, AST_RTP_CN},..        /* Also used for CN */
.       [26] = {1, AST_FORMAT_JPEG},
.       [31] = {1, AST_FORMAT_H261},
.       [34] = {1, AST_FORMAT_H263},
.       [103] = {1, AST_FORMAT_H263_PLUS},
.       [97] = {1, AST_FORMAT_ILBC},
.       [101] = {0, AST_RTP_DTMF},
.       [110] = {1, AST_FORMAT_SPEEX},
.       [111] = {1, AST_FORMAT_G726},
.       [112] = {1, AST_FORMAT_G726_AAL2},
.       [121] = {0, AST_RTP_CISCO_DTMF}, /* Must be type 121 */
.       [126] = {1, AST_FORMAT_H264},
};
```

2. compile and install Asterisk with the previous change

2. edit the sip.conf file:
    1. insert this line in to the general section: videosupport=yes
    2. create the device (the simplest case, without authentication; the Helios IP has the phone number 1000):

```
[1000]
type=friend
context=phones
host=dynamic
allow=alaw
allow=ulaw
allow=h264
```

    3. Insert the 1000 extension into the "phones" section in the extension.conf file:

exten => 1000,1,Verbose(1|Helios IP)
exten => 1000,n,Dial(SIP/1000,30)
exten => 1000,n,Hangup()

4. Start (or reload) the Asterisk

4. set up the Helios IP:

4. Save the configuration for Helios IP
5. On the Information page of Helios IP, there should be "Registered" in the Registration state line.