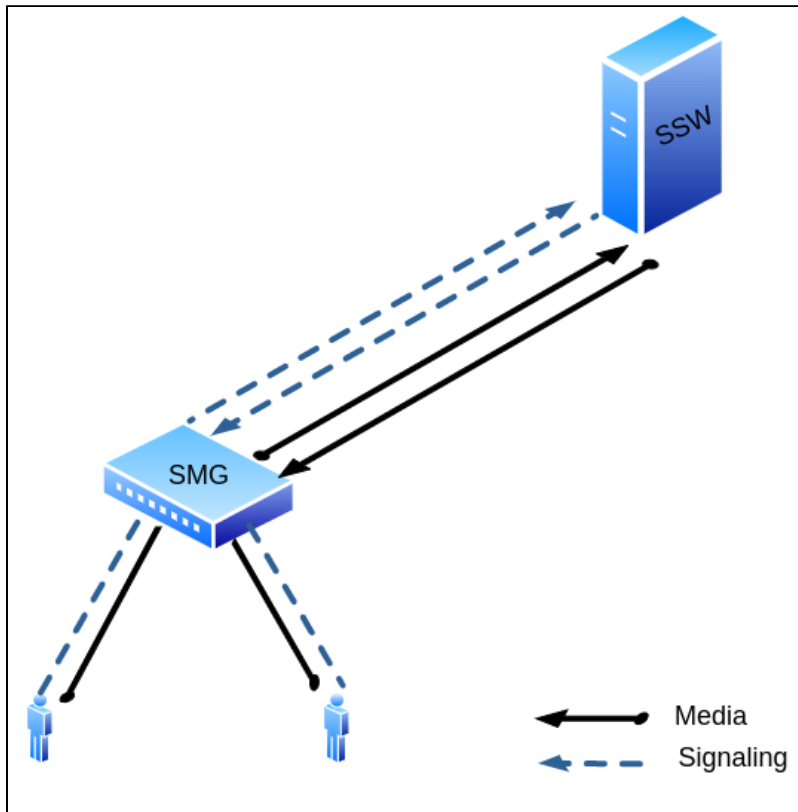




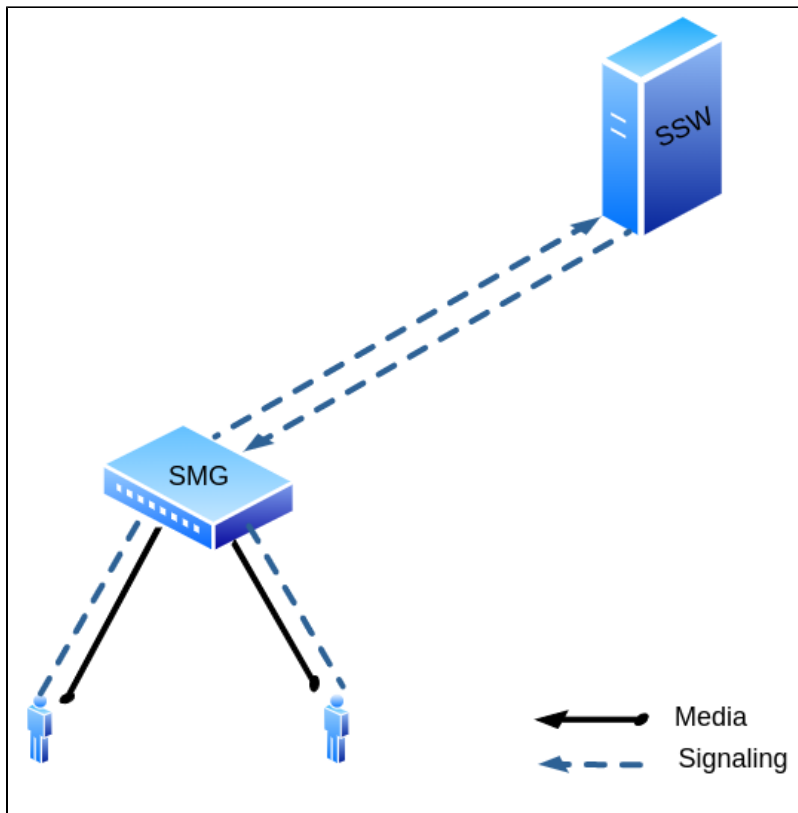
SMG-3016.

SMG SSW, softswitch (msr ssw). , SMG, SSW (1).



1 — MSR SSW

SMG . , SSW MSR SMG , rtp , SMG (2).



2 – MSR SMG



SMG-MSR, .

, /etc/config/ecss_msr_ena ECSS_MSR_ENA=no ECSS_MSR_ENA=yes.

/etc/config/config.xml.

, SMG vi. (vi /etc/config/config.xml).

```
<?xml version="1.0" encoding="utf-8"?>
<config>
  <general log-level="3" max-calls="1000" max-in-group="3"
    tread-cnt="2" syslog="no"/>
  <transport bind-addr="127.0.0.1" port="5080" transport="udp" />
  <media use-vad="no" port-start="15000" port-range="5000" rtcp-timeout="15" />
  <codec pcma="1" pcmu="2" g729="3" ilbc="4" gsm="5" g722="6" />
  <accounts>
    <dynamic msr_name="msr.smg" realm="sip:127.0.0.1:5000" dtmf_mode="rfc+inband+info" auth_name="user"
auth_password="password" />
  </accounts>
  <pbyte>
    <mcc bind-addr="127.0.0.1" port="51000" />
  </pbyte>
</config>
```

:

- general — :
 - log-level — . , (: "3");
 - max-calls — ;
 - max-in-group — .



<<> , . 4000.

- transport — :
 - bind-addr — IP-, SIP- (: "127.0.0.1"). ;
 - port — SIP (: "5080"). , , 5040 , ;
 - transport — (: "udp"), : "udp", "tcp", "udp+tcp". .
- media — :
 - use-vad — Voice Activity Detection (: "no"). ;
 - rtcp-timeout — RTCP , , (: "0" —). , RTCP ;
 - rtp-timeout — - RTP-, (: "0" —);
 - port-start — , RTP- (: "12000");
 - port-range — (: "1024");
 - thread-cnt — (dtmf-to-total-energy : "2");
- codec — (1 — , 255 — , 0 —). :
- accounts — . 32- acc;
- dynamic — :
 - msr_name — MSR, ECSS;
 - realm — sip:domain. SIP- ;
 - dtmf_mode — DTMF ("rfc", "inband", "info"). DTMF .
 - auth_name — , ;
 - auth_password — .
- pbyte — pbyte;
 - mcc — media control channel;
 - bind-addr — IP-, ;
 - port — , (: 5700).
- conf_dir path — , MSR. config.xml.



media, **port-start port-range** , SMG.

: /etc/ecss/ecss-media-server/conf.d **config.xml**.



G711 150 .
G729 25 thread-cnt (.), , 50.

/etc/config/config.xml

ecss-media-server.
ecss-media-server .

kill -2 ecss-media-server

MSR Softswitch



MSR SMG shell.

config.xml

```
vi /etc/config/config.xml
```

:

```
<config>
  <general log-level="3" max-calls="1000" max-in-group="3"
    tread-cnt="2" syslog="no"/>
  <transport bind-addr="192.168.114.79" port="5080" transport="udp" />
  <media use-vad="no" port-start="15000" port-range="5000" rtcp-timeout="15" />
  <codec pcma="1" pcmu="2" g729="3" ilbc="4" gsm="5" g722="6"/>
  <accounts>
    <dynamic msr_name="msr.smg" realm="sip:192.168.114.90:5000" dtmf_mode="rfc+inband+info" auth_name="
user" auth_password="password" />
  </accounts>
  <pbyte>
    <mcc bind-addr="192.168.114.79" port="51000" />
  </pbyte>
  <conf_dir path="/etc/config/conf.d"/>
</config>
```

:

- 192.168.114.79 – IP- SMG,
- 192.168.114.90 – IP- SSW.

, MSR:

```
pkill -2 ecss-media-server
```

, MSR IP- SSW:

```
REGISTER sip:192.168.114.90:5000 SIP/2.0
Via: SIP/2.0/UDP 192.168.114.79:5080;rport;branch=z9hG4bKPjuUBlvIwbH0rgYXYLRVCBkWRCJvNmZX4w
Max-Forwards: 70
From: <sip:bond1.1@msr.smg>;tag=ruTwS9WQ7HaSalkcdz9J9NJBpCntQU6l
To: <sip:bond1.1@msr.smg>
Call-ID: Nm96ZyfgH9ND8ZFDXhUzsQcDrYnw7hRq
CSeq: 1 REGISTER
P-Eltex-MSR-Iface-Name: bond1.1
P-Eltex-MSR-Iface-Addr: 192.168.114.79
P-Eltex-MSR-CC-Addr: 192.168.114.79
P-Eltex-MSR-CC-Port: 51000
P-Eltex-MSR-Name: msr.smg
P-Eltex-Max-Calls: 1000
User-Agent: Eltex media-server 3.14.11.1
Contact: <sip:bond1.1@192.168.114.79:5080>
Expires: 3600
Allow: PRACK, INVITE, ACK, BYE, CANCEL, UPDATE, INFO, SUBSCRIBE, NOTIFY, REFER, MESSAGE, OPTIONS
Content-Length: 0
```

softswitch MSR(**cocon**):

```
system/media/resource/declare core1@ecss1 contact bond1.1@msr.smg default local true
```

:

```
system/media/resource/list
```