

1.8.7 VoIP



ESR-12V/12VF/14VF

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SIP

SIP-

sip profile

SIP- .

(no) SIP-.

[np] sip profile <NUM>

<NUM> – SIP-, 1 5.

10

CONFIG

```
esr(config)# sip profile 1
```

codec-packettime g711

G711. – RTP-.

(no) .

```
codec-packettime g711 <PTIME> no codec-packettime g711
```

<PTIME> – , [10, 20, 30, 40, 50, 60].

20

10

CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# codec-packettime g711 50
```

codec-packettime g723

G723. – RTP-.

(no) .

```
codec-packettime g723 <PTIME> no codec-packettime g723
```

<PTIME> – , [30, 60, 90].

30

10

CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# codec-packettime g723 60
```

codec-packettime g729

G729. – RTP-.

(no) .

codec-packettime g729 <PTIME> no codec-packettime g729

<PTIME> – , [10, 20, 30, 40, 50, 60, 70, 80].

20

10

CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# codec-packettime g729 70
```

conference type

.

no conf_mode .

conference type <MODE> no conf_mode

<MODE> – . . :

- local – «flash+3»;
- remote – : «flash+3» Invite , « ». , RFC4579.

local

10

CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# conference type remote
```

conference uri address

SIP-URI: user@address:port.

(no) .

conference uri address <ADDR> conference uri address

<ADDR> – ipv4- .

IP-, AAA.BBB.CCC.DDD, [0..255]. – example.loc.

.

10

CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# conference uri address sipnetwork.loc
```

conference uri port

SIP-URI: user@address:port.

(no) .

conference uri port <PORT> no conference uri port

<PORT> – TCP/UDP- c , [1..65535].

5060

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CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# conference uri port 5066
```

conference uri user

SIP-URI: user@address:port.

(no) .

conference uri user <USER> no conference uri user

<USER> – , 31 .

conf

10

CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# conference uri user conference
```

description

SIP-.

(no) SIP-.

description <DESCRIPTION> no description

<DESCRIPTION> – SIP-, 255 .

.

10

CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# description "first sip profile"
```

dialplan pattern

SIP-.

(no) .

dialplan pattern <DNAME> no dialplan pattern

<DNAME> – , 31 .

.

10

CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# dialplan pattern dialplanName
```

echo-caceller

SIP-.

(no) .

[no] echo-canceller

Echo-canceller .

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CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# echo-canceller
```

enable

SIP-.

(no) SIP-.

[no] enable

.

SIP- .

10

CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# enable
```

fax protocol t38

T.38 – re-invite T.38 .

(no) T.38.

[no] fax protocol t38

.

t38 .

10

CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# fax protocol t38
```

fax protocol t38 redundant

T.38, , T.38. .

(no) T.38.

fax protocol t38 redundant <SIZE>no fax protocol t38 redundant

<SIZE> – , T.38, 0, 1, 2.

0

10

CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# fax protocol t38 redundant 2
```

ims call-holding

« ». XML Notify, / « ». , «call-hold», :

<call-hold active="true"/>

:
<call-hold active="false"/>
(no) .

ims call-holding <NAME> no ims call-holding

<NAME> – « », 31 .

call-hold

10

CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# ims call-holding hold
```

ims call-transfer

« ». XML Notify, / « », «call-transfer», :
< call-transfer active="true"/>
:
< call-transfer active="false"/>
(no) .

ims call-transfer <NAME> no ims call-transfer

<NAME> – « », 31 .

explicit-call-transfer

10

CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# ims call-transfer transfer
```

ims call-waiting

« ». XML Notify, / « », «call-waiting», :

<call-waiting active="true"/>

:

<call-waiting active="false"/>

(no) .

ims call-waiting <NAME>no ims call-waiting

<NAME> – « », 31 .

call-waiting

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CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# ims call-waiting wait
```

ims conference

« » – XML Notify, / « », «three-party-conference», :

< three-party-conference active="true"/>

:

< three-party-conference active="false"/>

(no) .

ims conference <NAME>no ims conference

<NAME> – « », 31 .

three-party-conference

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CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# ims conference conf
```

ims hotline

« » – XML Notify, « ». ., «hot-line-service» 30001 6 – :

<hot-line-service>

<addr>30001</addr>

<timeout>6</timeout>

</hot-line-service>

(no) .

ims hotline <NAME> no ims hotline

<NAME> – « », 31 .

hot-line-service

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CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# ims hotline hot
```

ims type

IMS.

(no) IMS.

ims type <MODE> no ims type

<MODE> – IMS, :

- implicit – IMS (*IP Multimedia Subsystem*). « »(RFC4579), « », « », « »(,) IMS Notify, / XCAP (– XML, RFC4825).
SUBSCRIBE NOTIFY-, IMS, . « »– XML Notify, / « ». , «call-hold», :
<call-hold active="true"/>
;
<call-hold active="false"/>
- explicit – IMS (*IP Multimedia Subsystem*). « »(RFC 4579), « », « », « »(,) IMS Notify , / XCAP (– XML , RFC4825).
SUBSCRIBE , NOTIFY , IMS, .

IMS .

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CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# ims type implicit
```

payload dtmf

RFC2833.

(no) .

payload dtmf <TYPE> no payload dtmf

<TYPE> – RFC2833, – [96..127].

96

10

CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# payload dtmf 101
```

rtcp

RTCP .

(no) RTCP.

[no] rtcp

.

/ RTCP.

10

CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# rtcp
```

rtcp extend-reports

RTCP Extended Reports RFC 3611.

(no) RTCP Extended Reports.

[no] rtcp extend-reports

.

RTCP Extended Reports .

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CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# rtcp extend-reports
```

rtcp keepalive

RTCP, . RTCP-, ESR-12V/12VF/14VF .

(no) .

rtcp keepalive <TIME> no rtcp keepalive

<TIME> – RTCP , [1..30].

5

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CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# rtcp keepalive 25
```

rtcp tx-period

RTCP.

(no) .

rtcp tx-period <TIME> no rtcp tx-period

<TIME> – RTCP , – [1..60].

5

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CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# rtcp tx-period 40
```

session expiries-timer

RFC2028 (90 1800 , 120).

(no) .

session expiries-timer <TIME> no session expiries-timer

<TIME> – , [90..1800].

120

10

CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# session expiries-timer 180
```

session keepalive

, , .

(no) .

session keepalive <TIME> no session keepalive

<TIME> – , [90..80000].

1800

10

CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# session keepalive 900
```

session timer disable

timer (RFC 4028).

(no) RFC4028.

```
[no] session timer disable
```

.

.

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CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# session timer disable
```

silence-detect

.

(no) .

```
[no] silence-detect
```

.

.

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CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# silence-detect
```

sip-domain address

SIP-, .

(no) SIP-.

```
sip-domain address <ADDRESS> no sip-domain address
```

<ADDRESS> – SIP- , ipv4- .

.

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CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# sip-domain address sip.network.com
```

sip-domain registration enable

SIP Domain (SIP- Request-Line Register).

(no) SIP Domain .

```
[no] sip-domain registration enable
```

.

SIP Domain .

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CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# sip-domain registration enable
```

sip-domain registration retry

, SIP-. 2/3 .

(no) .

```
sip-domain registration retry <INTERVAL> no sip-domain registration retry
```


<INTERVAL> – , SIP-. [30..10000].

1800

10

CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# sip-domain registration retry 900
```

source-address

– NAT (. (WAN) (NAT), ESR-12V/12VF/14VF.

(no) .

source-address <IPv4 address> no source-address

<IPv4 address> – (WAN) (NAT), ESR-12V/12VF/14VF.

.

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CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# source-address 232.104.45.12
```

transfer dtmf

DTMF.

(no) .

transfer dtmf <MODE> no transfer dtmf

<MODE> – DTMF, :

info – SIP INFO;

inband – ;

rfc-2833 – RFC2833 RTP.

rfc-2833

10

CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# transfer dtmf inband
```

transfer flash

Flash.

(no) .

transfer flash <MODE> no transfer flash

<MODE> – Flash, :

- ssc – SIP INFO. *flash Application /sscc event flashhook.*
- dtmf – SIP INFO. *flash Application /dtmf -relay signal =hf.*
- hook-flash – SIP INFO. *flash Application /Hook Flash signal =hf.*
- broadsoft – SIP INFO. *flash Application /Broadsoft event flashhook.*

hook-flash

10

CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# transfer flash dtmf
```

SIP PROXY

proxy primary

SIP-. (no) SIP-.

[no] proxy primary

.

.

10

CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# proxy primary
```

proxy primary keepalive

.

(no) .

proxy primary keepalive <PERIOD> no proxy primary keepalive

<PERIOD> – SIP-, [10..3600].

30

10

CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# proxy primary keepalive 60
```

proxy primary mode

SIP-.

(no) .

proxy primary mode <MODE> no proxy primary mode

<MODE> – SIP-, :

- parking – SIP- SIP-;
- homing – SIP- SIP-.

homing

10

CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# proxy primary mode parking
```

proxy secondary

SIP-.

(no) SIP-.

proxy secondary <NUM> no proxy secondary

<NUM> – SIP-, [1..4].

.

10

CONFIG-SIP-PROFILE

```
esr(config-sip-profile)# proxy secondary 2
```

enable

SIP-.

(no) SIP-.

[no] enable

.

SIP-.

10

CONFIG-VOIP-SIP-PROXY

```
esr(config-voip-sip-proxy)# enable
```

ip address proxy-server

IP- .

(no) .

```
ip address proxy-server <ADDR> no ip address proxy-server
```

<ADDR>- , ipv4- . ipv4- .

IP-, AAA.BBB.CCC.DDD, [0..255]. - example.loc.

.

10

CONFIG-VOIP-SIP-PROXY

```
esr(config-voip-sip-proxy)# ip address proxy-server 10.245.56.12
```

ip address registration-server

.

(no) .

```
ip address registration-server <ADDR> no ip address registration-server
```

<ADDR>- , ipv4- . ipv4- .

IP-, AAA.BBB.CCC.DDD, [0..255]. - example.loc.

.

10

CONFIG-VOIP-SIP-PROXY

```
esr(config-voip-sip-proxy)# ip address registration-server 10.245.56.12
```

ip port proxy-server

UDP- proxy-.

(no) .

```
ip port proxy-server <PORT> no ip port proxy-server
```

<PORT> – UDP-proxy , [1..65535].

5060

10

CONFIG-VOIP-SIP-PROXY

```
esr(config-voip-sip-proxy)# ip port proxy-server 5080
```

ip port registration-server

UDP- .

(no) .

```
ip port registration-server <PORT> no ip port registration-server
```

<PORT> – UDP- , [1..65535].

5060

10

CONFIG-VOIP-SIP-PROXY

```
esr(config-voip-sip-proxy)# ip port registration-server 5080
```

registration

SIP-.

(no) SIP-.

[no] registration

.

10

CONFIG-VOIP-SIP-PROXY

```
esr(config-voip-sip-proxy)# registration
```

SIP

authentication mode

(no) .

authentication mode <MODE> no authentication mode

<MODE> – , :

- global – / ;
- user-defined – /.

user-defined

10

CONFIG-SIP

```
esr(config-sip)# authentication mode global
```

authentication name

, authentication mode global.

(no) .

authentication name <LOGIN> no authentication name

<LOGIN> – , 31 .

10

CONFIG-SIP

```
esr(config-sip)# authentication name esr12V
```

authentication password

, authentication mode global.

(no) .

```
authentication password { <PASS> | encrypted <ENCRYPTED-PASS>} no authentication password
```

<PASS> – , 16;

<ENCRYPTED-PASS> – - sha512, [2..32].

.

10

CONFIG-SIP

```
esr(config-sip)# authentication password superpass
```

sip service

SIP-.

(no) .

```
[no] sip services
```

.

.

10

CONFIG


```
esr(config)# sip services
esr(config-sip)#
```

description

```
.
(no) .
```

```
description <DESCRIPTION> no description
```

```
<DESCRIPTION> - , 255 .
```

```
.
```

```
10
```

```
CONFIG-DIAL-RULESET
```

```
esr(config-dial-ruleset)# description first
```

dialplan pattern

```
.
(no) .
```

```
dialplan pattern <NAME> no dialplan pattern
```

```
<NAME> - , 31 .
```

```
.
```

```
10
```

```
CONFIG
```

```
esr(config)# dialplan pattern newplan
```

enable

.
(no) .

[no] enable

.
.
.

10

CONFIG-DIAL-RULESET

```
esr(config-dial-ruleset)# enable
```

pattern

.
(no) .

pattern <REGEXP> no pattern

<REGEXP> – , . 1024 .

"S5, L5 ([xABCD*#.S)"

10

CONFIG-DIAL-RULESET

```
esr(config-dial-ruleset)# pattern "S5, L5 (4lxx@{local} | 7383xxxxxxx)"
```

prefix busy

, , , “ ».
(no) .

prefix busy <CODE> no prefix busy

<CODE>- , , « », [10..99].

.

10

CONFIG-VOIP-SERVICES

```
esr(config-voip-services)# prefix busy 99
```

prefix call-waiting

, , , « ».

(no) .

prefix call-waiting <CODE> no prefix call-waiting

<CODE>- , , « », [10..99].

.

10

CONFIG-VOIP-SERVICES

```
esr(config-voip-services)# prefix call-waiting 89
```

prefix dnd

, , , « ».

(no) .

prefix dnd <CODE> no prefix dnd

<CODE>- , , « », [10..99].

.

10

CONFIG-VOIP-SERVICES

```
esr(config-voip-services)# prefix dnd 79
```

prefix hotline

, , , «/».

(no) .

prefix hotline <CODE> no prefix hotline

<CODE> -, , «/», [10..99].

.

10

CONFIG-VOIP-SERVICES

```
esr(config-voip-services)# prefix hotline 69
```

prefix no-answer

, , , « ».

(no) .

prefix no-answer <CODE> no prefix no-answer

<CODE> -, , « », [10..99].

.

10

CONFIG-VOIP-SERVICES

```
esr(config-voip-services)# prefix no-answer 59
```

prefix-pickup

, , , « ».

(no) .

prefix pickup <CODE> no prefix pickup

<CODE>- , , « », [10..99].

.

10

CONFIG-VOIP-SERVICES

```
esr(config-voip-services)# prefix pickup 49
```

prefix unconditional

, , , « ».

(no) .

prefix unconditional <CODE> no prefix unconditional

<CODE>- , , « », [10..99].

.

10

CONFIG-VOIP-SERVICES

```
esr(config-voip-services)# prefix unconditional 39
```

voice services

.
(no) .

[no] voice services

.
.

10

CONFIG

```
esr(config)# voice services
```

SIP ALG

Service-voip routing

VoIP PBX .
(no) .

[no] service-voip routing

.
.

10

CONFIG-E1

CONFIG-IF-GI

CONFIG-MULTILINK

CONFIG-PORT-CHANNEL

CONFIG-GRE

CONFIG-IP4IP4

CONFIG-PPPOE

CONFIG-PPTP

CONFIG-VTI

CONFIG-BRIDGE

```
esr(config-if-gi)# service-voip routing
```

PBX

PBX -

enable

PBX.

(no) PBX .

[no] enable

.

10

CONFIG-PBX

```
esr (config-pbx)# enable
```

expiry

.

(no) .

[no] expiry [min|max] <EMIN>

Min – ;

Max – ;

<EMIN> – [60...64800] .

Min – 60 ;

Max – 3600 .

10

CONFIG-PBX

```
esr (config-pbx)# expiry min 60
```

session-timer type

.
(no) .

```
[no] session-timer type <TTIME>
```

<TTIME> – [originate, accept, refuse];

originate – ;

accept – ;

refuse – .

refuse

10

CONFIG-PBX

```
esr (config-pbx)# session-timer type accept
```

session-timer expiries

.
(no) .

```
[no] session-timer expiries <ETIME>
```

<ETIME> – , [90-80000].

1800 .

10

CONFIG-PBX

```
esr (config-pbx)# session-timer expiries 600
```


session-timer min-se

.
(no) .

[no] session-timer min-se <MTIME>

<MTIME> – , [90-1800].

90 .

10

CONFIG-PBX

```
esr (config-pbx)# session-timer min-se 100
```

session-timer refresher

.
(no) .

[no] session-timer refresher <RTIME>

<RTIME> – , (uac|uas);

uac – , ;

uas – , .

uas

10

CONFIG-PBX

```
esr (config-pbx)# session-timer refresher uas
```

profile

SIP PBX.

(no) .

[no] profile <PNAME>

<PNAME>- , 1 31 .

10

CONFIG-PBX

```
esr (config-pbx)# profile sip_phones
```

register-server

PBX.

(no) .

[no] register-server <REGNAME>

<REGNAME>- 1 31 .

10

CONFIG-PBX

```
esr (config-pbx)# register-server ssw
```

ruleset

PBX.

(no) .

[no] ruleset <RULNAME>

<RULNAME>- 1 31 .

10

CONFIG-PBX

```
esr (config-pbx)# ruleset local
```

user

PBX.

(no) .

[no] user <UNAME>

<UNAME> - , 1 31 .

10

CONFIG-PBX

```
esr(config-pbx)# user 1482
```

transport protocol

, PBX.

(no) .

[no] transport protocol <PROTO>

<PROTO> - , { tcp | udp | both }.

udp

10

CONFIG-PBX

```
esr (config-pbx)# transport protocol udp
```

transport port

, PBX.

(no) .

[no] transport port <PORT>

<PORT> – , [1...65535].

5060

10

CONFIG-PBX

```
esr (config-pbx)# transport port 5060
```

fax

PBX.

(no) .

[no] fax protocol t38 error-correction <FTYPE> datagram-size <SIZE>

<FTYPE> – , {fec | redundancy};

<SIZE> – , [272...512].

10

CONFIG-PBX

```
esr (config-pbx)# fax protocol t38 error-correction fec datagram-size 272
```

PBX

password

PBX.

(no) .

password { <PASS> | encrypted <ENCRYPTED-PASS>} no password

<PASS> – , 16;

<ENCRYPTED-PASS> -- sha512, [2..32].

10

CONFIG-PBX-USER

```
esr (config-pbx-user)# password 1234
```

profile

SIP PBX.

(no) .

[no] profile <PNAME>

<PNAME> - SIP, 1 31 .

10

CONFIG-PBX-USER

```
esr (config-pbx-user)# profile sip_phones
```

PBX

description

PBX.

(no) .

[no] description <DESCR>

<DESCR>- , 1 255 .

10

CONFIG-PBX-RULESET

```
esr (config-pbx-ruleset)# description local_calls
```

rule

.
(no) .

[no] rule <RIDX>

<RIDX> - , 1 1000.

10

CONFIG-PBX-RULESET

```
esr (config-pbx-ruleset)# rule 1
```

enable

.
(no) .

[no] enable

.

10

CONFIG-PBX-RULE

```
esr (config-pbx-rule)# enable
```

pattern

.
(no) .

[no] pattern <PSTR>

<PSTR> - , 1 256 .

(null)

CONFIG-PBX-RULE

```
esr (config-pbx-rule)# pattern _XXX,1,Dial(SIP/${EXTEN})
```

description

PBX.

(no) .

[no] description <DESCR>

<DESCR>- , 1 255 .

CONFIG-PBX-RULE

```
esr (config-pbx-rule)# description local_calls
```

PBX

protocol

.

(no) .

[no] protocol <PROTO>

<PROTO>- , , { tcp | udp }.

udp

CONFIG-PBX-REG-SERVER

```
esr (config-pbx-reg-server)# protocol udp
```

authentication password

.
(no) .

```
authentication password { <PASS> | encrypted <ENCRYPTED-PASS>} no authentication password
```

<PASS>- , 16;

<ENCRYPTED-PASS>-- sha512, [2..32].

10

CONFIG-PBX-REG-SERVER

```
esr (config-pbx-reg-server)# authentication password 1234
```

username

.
(no) .

```
[no] username <UNAME>
```

<UNAME>- .

10

CONFIG-PBX-REG-SERVER

```
esr (config-pbx-reg-server)# username esr
```

ip address

.
(no) .

```
[no] ip address <ADDR>
```


<ADDR> – , A.B.C.D, [0...255], 1 31 .

10

CONFIG-PBX-REG-SERVER

```
esr (config-pbx-reg-server)# ip address eltex-co.ru
```

ip port

.

(no) .

[no] ip port <PORT>

<PORT> – , [1...65535].

5060

10

CONFIG-PBX-REG-SERVER

```
esr (config-pbx-reg-server)# ip port 5060
```

domain

SIP .

(no) .

[no] domain <DSTR>

<DSTR> – SIP , 1 31 .

10

CONFIG-PBX-REG-SERVER

```
esr(config-pbx-reg-server)# ssw3.11
```

profile

SIP, .

(no) .

[no] profile <PNAME>

<PNAME> – SIP, , 1 31 .

10

CONFIG-PBX-REG-SERVER

```
esr (config-pbx-reg-server)# profile sip_phones
```

enable

.

(no) .

[no] enable

.

10

CONFIG-PBX-REG-SERVER

```
esr (config-pbx-reg-server)# enable
```

SIP PBX

type

, PBX SIP .

(no) .

[no] type <TTYPE>

<CTYPE> – SIP , {local | remote};

Local – ;

Remote – .

10

CONFIG-PBX-PROFILE

```
esr (config-pbx-profile)# type local
```

client

, SIP .

(no) .

[no] client <CTYPE>

<CTYPE> – , {peer | friend | user};

- peer – ;
- user – ;
- friend – peer user.

peer

10

CONFIG-PBX-PROFILE

```
esr (config-pbx-profile)# client friend
```

from-domain

SIP .

(no) .

[no] from-domain <FDSTR>

<FDSTR> – , 1 31 .

CONFIG-PBX-PROFILE

```
esr (config-pbx-profile)# from-domain sip.domain
```

security level

, .

(no) .

```
[no] security level <STYPE>
```

<STYPE> – {port | invite | invire-port | address | support};

Port – ip- ;

Invite – INVITE;

Invite-port – port invite;

Address – IP ;

Support – .

.

CONFIG-PBX-PROFILE

```
esr (config-pbx-profile)# security level address
```

nat

NAT.

(no) .

```
[no] nat <NTYPE>
```

<NTYPE> – NAT, {comedia | force-port | both};

comedia – PBX, SDP;

force-port – rport, ;

Both – comedia force-port.

10

CONFIG-PBX-PROFILE

```
esr (config-pbx-profile)# nat comedia
```

codec allow

, SIP.

(no) .

[no] codec allow <ATYPE>

<ATYPE> – , {G711A | G711U | G722 | G726}.

10

CONFIG-PBX-PROFILE

```
esr (config-pbx-profile)# codec allow g722
```

qualify

.

(no) .

[no] qualify <QTYPE>

<QTYPE> – , [100...100000].

1000

10

CONFIG-PBX-PROFILE

```
esr (config-pbx-profile)# qualify 100000
```

host-address

, .
(no) .

[no] host-address <ADDR>

<ADDR> – , A.B.C.D, [0...255] 1 31 .

dynamic

10

CONFIG-PBX-PROFILE

```
esr (config-pbx-profile)# host-address 192.168.116.183
```

sip-port

, .
(no) .

[no] sip-port <PORT>

<PORT> – , 1 65535.

5060

10

CONFIG-PBX-PROFILE

```
esr (config-pbx-profile)# sip-port 5062
```

authentication password

.
(no) .

```
authentication password { <PASS> | encrypted <ENCRYPTED-PASS>} no authentication password
```

<PASS> – , 16;

<ENCRYPTED-PASS> -- sha512, [2..32].

10

CONFIG-PBX-PROFILE

```
esr (config-pbx-profile)# authentication password 1234
```

username

.

(no) .

[no] username <UNAME>

<UNAME> – , 1 31 .

10

CONFIG-PBX-PROFILE

```
esr (config-pbx-profile)# username user
```

protocol

, .

(no) .

[no] protocol <PTYPE>

<PTYPE> – , {tcp | udp | both}.

udp

10

CONFIG-PBX-PROFILE

```
esr (config-pbx-profile)# protocol udp
```

ruleset

```
, .  
(no) .
```

```
[no] ruleset <RNAME>
```

```
<RNAME> - , . 1 31 .
```

10

CONFIG-PBX-PROFILE

```
esr (config-pbx-profile)# ruleset local
```

in-band

```
in-band .  
(no) .
```

```
[no] in-band <ITYPE>
```

```
<ITYPE> - { always | not | never };
```

- Always - in-band ;
- Not - in-band ;
- Never - in-band .

never

10

CONFIG-PBX-PROFILE

```
esr (config-pbx-profile)# in-band not
```


rtp-media

RTP .

(no) .

[no] rtp-media

.

10

CONFIG-PBX-PROFILE

```
esr (config-pbx-profile)# rtp-media
```

group pickup

SIP .

(no) .

[no] group pickup <GTYPE>

<GTYPE> - , 1 31.

255

10

CONFIG-PBX-PROFILE

```
esr (config-pbx-profile)# group pickup 16
```

group calling

SIP .

(no) .

[no] group calling <GTYPE>

<GTYPE> - , 1 31.

255

10

CONFIG-PBX-PROFILE

```
esr (config-pbx-profile)# group calling 16
```

PBX

show pbx peers

, PBX.

show pbx peers

.

1

ROOT

```
esr# show pbx peers
```

show pbx registrations

PBX.

show pbx registrations

.

1

ROOT

```
esr# show pbx registrations
```