

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

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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

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CONFIG-SIP-PROFILE

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

conference uri address

SIP-URI: user@address:port.

(no) .

```
conference uri address { <ADDR> | <NAME> }
```

```
[no] conference uri address
```

<ADDR> – ipv4- .

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

<NAME> – DNS- . – example.loc.

.

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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 .

.

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CONFIG-SIP-PROFILE

CONFIG-VOIP-PROFILE

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

dialplan pattern

SIP-.

(no) .

```
dialplan pattern <DNAME>
```

```
no dialplan pattern
```

<DNAME> – , 31.

.

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CONFIG-SIP-PROFILE

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

echo-caceller

SIP-.

(no) .

```
[no] 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 .

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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

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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

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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

CONFIG-VOIP-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

10

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

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CONFIG-SIP-PROFILE

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

rtcp

RTCP .

(no) RTCP.

[no] rtcp

.

/ RTCP.

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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 timer

<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 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

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CONFIG-SIP-PROFILE

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

session keepalive

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

.

.

10

CONFIG-SIP-PROFILE

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

sip-domain address

SIP-, .
(no) SIP-.

sip-domain address { <ADDRESS> | <NAME> }
no sip-domain address

<ADDRESS> – SIP- , ipv4- .

<NAME> – DNS- SIP-. – example.loc.

.

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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 .

10

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

.

.

15

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

15

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> | <NAME> }
```

```
no ip address proxy-server
```

<ADDR> – -, ipv4- . . ipv4- .

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

<NAME> – DNS- -. – 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> | <NAME> }  
no ip address registration-server
```

<ADDR> – , ipv4- . ipv4- .

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

<NAME> – DNS- . – 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

15

CONFIG-SIP

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

authentication name

, authentication mode global.

(no) .

authentication name <LOGIN>

no authentication name

<LOGIN> - , 31 .

.

15

CONFIG-SIP


```
esr(config-sip)# authentication name esrl2V
```

authentication password

, authentication mode global.

(no) .

```
authentication password { <PASS> | encrypted <ENCRYPTED-PASS> }
```

```
no authentication password
```

<PASS>- , 16;

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

.

15

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 (41xx@{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].

CONFIG-VOIP-SERVICES

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

prefix pickup

, , , « ».

(no) .

```
prefix pickup <CODE>
```

```
no prefix pickup
```

<CODE> -, , « », [10..99].

.

CONFIG-VOIP-SERVICES

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

prefix unconditional

, , , « ».

(no) .

```
prefix unconditional <CODE>
```

```
no prefix unconditional
```

<CODE> -, , « », [10..99].

.

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-SUBIF
```

```
CONFIG-QINQ-IF
```

```
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 90
```

external-config

```
.  
(no) .
```

[no] external-config

```
.
```

15

CONFIG-PBX

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

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.

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CONFIG-PBX

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

session-timer min-se

.
(no) .

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

<MTIME> - , [90-1800].

90 .

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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

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CONFIG-PBX

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

profile

SIP PBX.
(no) .

[no] profile <PNAME>

<PNAME>- , 1 31 .

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CONFIG-PBX

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

pbx

pbx-.
(no) pbx-.

[no] pbx

10

CONFIG

```
esr(config)# pbx
```

register-server

PBX.

(no) .

[no] register-server <REGNAME>

<REGNAME> - 1 31 .

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CONFIG-PBX

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

ruleset

PBX.

(no) .

[no] ruleset <RULNAME>

<RULNAME> - 1 31 .

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CONFIG-PBX

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

user

PBX.

(no) .

[no] user <UNAME>

<UNAME> - , 1 31 .

15

CONFIG-PBX

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

transport protocol

, PBX.

(no) .

[no] transport protocol <PROTO>

<PROTO> - , [tcp | udp | both].

udp

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CONFIG-PBX

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

transport port

, PBX.

(no) .

[no] transport port <PORT>

<PORT> - , [1...65535].

5060

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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].

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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] .

15

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

CONFIG-PBX-RULE

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

enable

.

(no) .

[no] enable

.

10

CONFIG-PBX-RULE

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

pattern

.

(no) .

[no] pattern <PSTR>

<PSTR> - , 1 256 .

(null)

10

CONFIG-PBX-RULE

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

rule

.

(no) .

[no] rule <RIDX>

<RIDX> - , 1 1000.

10

CONFIG-PBX-RULESET


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

PBX

protocol

.

(no) .

[no] protocol <PROTO>

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

udp

10

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>

<TTYPE> – 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 .

10

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.

.

CONFIG-PBX-PROFILE

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

codec allow

, SIP.

(no) .

[no] codec allow <ATYPE>

<ATYPE> – , [G711A | G711U | G722 | G726].

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) .

group pickup <GTYPE>
no group pick-up

<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

.

ROOT

```
esr# show pbx peers
```

show pbx registrations

PBX-

```
show pbx registrations
```

.

1

ROOT

```
esr# show pbx registrations
```