

# AAA

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## aaa accounting commands

, CLI.

(no) .

```
aaa accounting commands stop-only <METHOD>
```

```
no aaa accounting commands stop-only
```

<METHOD> – :

- tacacs – TACACS.

15

## CONFIG

:

```
esr(config)# aaa accounting commands stop-only tacacs
```

## aaa accounting login

, , «start» «stop» RADIUS TACACS.

(no) .

```
aaa accounting login start-stop <METHOD 1> [ <METHOD 2> ]
```

```
no aaa accounting login start-stop
```

<METHOD> – :

- tacacs – TACACS;
- radius – RADIUS.

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## CONFIG

```
:  
esr(config)# aaa accounting login start-stop tacacs
```

## aaa authentication attempts max-fail

(no),

```
aaa authentication attempts max-fail <COUNT> <TIME>  
no aaa authentication attempts max-fail
```

```
<COUNT> - , , [1..65535];  
<TIME> - , , [1..65535].
```

- 5

- 300

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## CONFIG

```
:  
esr(config)# aaa authentication attempts max-fail 5 30
```

## aaa authentication enable

«default». «default» – «enable». , , [enable authentication](#).

(no) .

```
aaa authentication enable <NAME> <METHOD 1> [ <METHOD 2> ] [ <METHOD 3> ] [ <METHOD 4> ]  
no aaa authentication enable <NAME>
```

<NAME> - : 31 ;

- default – «default».

<METHOD> - :

- enable – enable-;
- tacacs – TACACS;
- radius – RADIUS;
- ldap – LDAP.

## CONFIG

```
:  
esr(config)# aaa authentication enable enable-test tacacs enable
```

**aaa authentication login**

«default», – «local»., ., , [login authentication.](#)

(no) .

```
aaa authentication login { default | <NAME> } <METHOD 1> [ <METHOD 2> ] [ <METHOD 3> ]  
[ <METHOD 4> ]  
no aaa authentication login { default | <NAME> }
```

<NAME> – , 31 ;

:

- local – ;
- tacacs – TACACS-;
- radius – RADIUS-;
- ldap – LDAP-.

## CONFIG

```
:  
esr(config)# aaa authentication login login-test tacacs local
```

**aaa authentication mode**

(no) .

[no] aaa authentication mode { break | chain }

break – ;

chain – .

chain

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CONFIG

```
:  
esr(config)# aaa authentication mode break
```

## aaa das-profile

(DAS) DAS SERVER PROFILE.

(no) (DAS).

[no] aaa das-profile <NAME>

<NAME> – (DAS), 31 .

15

CONFIG

```
:  
esr(config)# aaa das-profile profile1  
esr(config-aaa-das-profile)#
```

## aaa disable

(no)

[no] aaa disable

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CONFIG-LINE-CONSOLE

```
esr(config-line-console)# aaa disable
```

## aaa radius-profile

RADIUS- RADIUS SERVER PROFILE.

(no) RADIUS-.

```
[no] aaa radius-profile <NAME>
```

<NAME>- RADIUS-, 31 .

15

## CONFIG

:

```
esr(config)# aaa radius-profile profile1  
esr(config-aaa-radius-profile)#
```

## acct-port

c RADIUS- .

(no) .

```
acct-port <PORT>
```

```
no acct-port
```

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

1813

15

## CONFIG-RADIUS-SERVER

:

```
esr(config-radius-server)# acct-port 4444
```

## auth-port

c RADIUS- .

(no) .

```
auth-port <PORT>
no auth-port
```

<PORT> – UDP- c , [1..65535].

1812

15

CONFIG-RADIUS-SERVER

:

```
esr(config-radius-server)# auth-port 4444
```

clear users blocked

```
clear users blocked <NAME>
```

<NAME> – , , 31 .

15

ROOT

:

```
esr# clear users blocked
```

clear user-session

CLI.

```
clear user-session [ <USERNAME> | <SESSION> ]
```

<NAME> – , 31 .

<SESSION> – , [1..10].

15

ROOT

:

```
esr# clear users-session
```

## clients

(DAC), (DAS).

(no) (DAC).

```
clients object-group <NAME>
```

```
no clients
```

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

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CONFIG-DAS-SERVER

:

```
esr(config-das-server)# clients object-group pcrf
```

## das-server

(DAS) DAS SERVER. (DAS) RADIUS CoA (DAC), .

(no) (DAS).

```
[no] das-server <NAME>
```

```
<NAME> - (DAS), 31 .
```

15

CONFIG

```
esr(config)# das-server main  
esr(config-das-server)#
```

## das-server

(DAS) .  
(no) (DAS).

[no] das-server <NAME>

<NAME> – (DAS), 31 .

15

## CONFIG-AAA-DAS-PROFILE

```
esr(config)# das-server mainesr(config-das-server)#

```

## dead-interval

, RADIUS- . RADIUS- (. [radius-server retransmit](#)).  
(no) .

dead-interval <SEC>  
no dead-interval

<SEC> – , [0..3600].

120

10

## CONFIG-RADIUS-SERVER

:

```
esr(config-radius-server)# dead-interval 600

```

## description

(DAS) RADIUS-.  
(no) .

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

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

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CONFIG-DAS-SERVER-PROFILE

CONFIG-RADIUS-SERVER-PROFILE

:

IP-:

```
esr(config-aaa-das-profile)# description "Main profile"
```

## disable

enable

2

ROOT

:

```
esr# disable
esr>
```

## enable

, aaa authentication attempts max-fail.



«enable»., 15 .



TACACS/RADIUS/LDAP \$enab<PRIV>\$, <PRIV> - , .

enable [ <PRIV> ]

<PRIV> – , [2..15].

15

1

ROOT

:

```
esr> enable 10  
esr#
```

## enable authentication

,  
«default», – «enable».  
(no) «default» .

```
enable authentication <NAME>  
no enable authentication
```

<NAME> – , 31 .

default

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CONFIG-LINE-CONSOLE  
CONFIG-LINE-TELNET  
CONFIG-LINE-SSH

```
:  
esr(config-line-console)# enable authentication enable-test
```

## enable password



, 15 .

(no) .

```
enable password { <CLEAR-TEXT> | encrypted <HASH_SHA512> } [ privilege <PRIV> ]
no enable password [ privilege <PRIV> ]
```

```
<CLEAR-TEXT> – , [1 .. 32], [0-9a-fA-F];
<HASH_SHA512> – sha512, 110 ;
<PRIV> – , [2..15], 15.
```

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## CONFIG

:

```
esr(config)# enable password 12345678 privilege 10
```

## exec-timeout

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

```
exec-timeout <SEC>
no exec-timeout
```

```
<SEC> – , [1..65535].
```

30

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## CONFIG-LINE-CONSOLE

## CONFIG-LINE-SSH

## CONFIG-LINE-TELNET

## CONFIG-LINE-AUX<sup>1</sup>

:

```
esr(config-line-ssh)# exec-timeout 600
```

 <sup>1</sup> ESR-21.

## ip sftp enable

```
sftp .  
(no) sftp .  
  
[no] ip sftp enable
```

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CONFIG-USER

:

```
esr(config-user)# ip sftp enable
```

key

(no)

```
key ascii-text { <TEXT> | encrypted <ENCRYPTED-TEXT> }  
no key
```

```
<TEXT> - [8..16] ASCII- ( TACACS- - 60 );  
<ENCRYPTED-TEXT> - , [8..16] , [16..32] ( TACACS- - 120 ).
```

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CONFIG-TACACS-SERVER

CONFIG-RADIUS-SERVER

CONFIG-DAS-SERVER

:

```
esr(config-tacacs-server)# key ascii-text 12345678
```

ldap-server base-dn

DN (Distinguished name),  
(no) DN.

```
ldap-server base-dn <NAME>
no ldap-server base-dn
```

<NAME> – DN, 255.

15

CONFIG

:

```
esr(config)# ldap-server base-dn "dc=example,dc=com"
```

## ldap-server bind authenticate root-dn

DN (Distinguished name) , LDAP- .  
(no) DN .

```
ldap-server bind authenticate root-dn <NAME>
no bind authenticate root-dn
```

<NAME> – DN , 255.

15

CONFIG

:

```
esr(config)# ldap-server bind authenticate root-dn "cn=admin,dc=example,dc=com"
```

## ldap-server bind authenticate root-password

, LDAP- .  
(no) .

```
ldap-server bind authenticate root-password ascii-text { <TEXT> | encrypted <ENCRYPTED-TEXT> }
no bind authenticate root-password
```

<TEXT> – [8..16] ASCII-;

<ENCRYPTED-TEXT> – , [8..16] , [16..32] .

15

CONFIG

:

```
esr(config)# ldap-server bind authenticate root-password ascii-text 12345678
```

## ldap-server bind timeout

, , LDAP- .

(no) .

```
ldap-server bind timeout <SEC>
no ldap-server bind timeout
```

<SEC>- , [1..30].

3

15

CONFIG

:

```
esr(config)# ldap-server bind timeout 5
```

## ldap-server dscp

DSCP IP- LDAP- .

(no) DSCP .

```
ldap-server dscp <DSCP>
no ldap-server dscp
```

<DSCP>- DSCP, [0..63].

63

10

CONFIG

:

```
esr(config)# ldap-server dscp 40
```

## ldap-server host

LDAP- LDAP SERVER.

(no) LDAP-.

```
[no] ldap-server host { <ADDR> | <IPV6-ADDR> | <LDAP-HOST-NAME> } [ vrf <VRF> ]
```

<VRF>- VRF, 31 .

<ADDR>- IP- LDAP-, AAA.BBB.CCC.DDD, [0..255];

<IPV6-ADDR>- IPv6- LDAP-, X:X:X::X, [0..FFFF].

<LDAP-HOST-NAME>- DNS- LDAP-, 31 . DNS- ip- [domain lookup enable](#).

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CONFIG

:

```
esr(config)# ldap-server host 10.100.100.1
esr(config-ldap-server)#
```

## ldap-server naming-attribute

, LDAP-.

(no) .

ldap-server naming-attribute <NAME>

no ldap-server naming-attribute

<NAME>- , 127 .

uid

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CONFIG

:

```
esr(config)# ldap-server naming-attribute displayName
```

## ldap-server privilege-level-attribute

, . [1..15], «remote».  
(no) .

```
ldap-server privilege-level-attribute <NAME>  
no ldap-server privilege-level-attribute
```

<NAME>- , 127.

priv-lvl

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## CONFIG

:

```
esr(config)# ldap-server privilege-level-attribute title
```

## ldap-server search filter user-object-class

, LDAP-.  
(no) .

```
ldap-server search filter user-object-class <NAME>  
no ldap-server search filter user-object-class
```

<NAME>- , 127.

posixAccount

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## CONFIG

:

```
esr(config)# ldap-server search filter user-object-class shadowAccount
```

## ldap-server search scope

LDAP-.

(no) .

ldap-server search scope <SCOPE>

no ldap-server search scope

<SCOPE> – LDAP-, :

- onerule – DN LDAP-;
- subtree – DN LDAP .

subtree

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## CONFIG

:

```
esr(config)# ldap-server search scope onerule
```

## ldap-server search timeout

, , LDAP- , .

(no) .

ldap-server search timeout <SEC>

no ldap-server search timeout

<SEC> – , [0..30].

0 – LDAP-.

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## CONFIG

:

```
esr(config)# ldap-server search timeout 10
```

## ldap-server ssl certificate

,    SSL- LDAP .  
(no)    SSL- LDAP .

```
ldap-server ssl certificate <FILE-NAME>  
no ldap-server ssl certificate
```

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CONFIG

```
:  
esr(config)# ldap-server ssl certificate ldap-ssl.crt
```

### ldap-server ssl check-peer disable

LDAP .  
(no) LDAP .

```
[no] ldap-server ssl check-peer disable
```

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CONFIG

```
:  
esr(config)# ldap-server ssl check-peer disable
```

### ldap-server ssl enable

SSL- LDAP (LDAP over SSL)  
(no) SSL- LDAP (LDAP over SSL)

```
[no] ldap-server ssl enable
```

15

## CONFIG

:

```
esr(config)# ldap-server ssl enable
```

## line

: , (Telnet), (SSH).

(no) . [login authentication enable authentication.](#)

```
[no] line <TYPE>
```

<TYPE> - :

- console - ;
- telnet - ;
- ssh - ;

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## CONFIG

:

```
esr(config)# line console  
esr(config-line-console)#
```

## login authentication

«default», – «local».

(no) «default» .

```
login authentication <NAME>
```

```
no login authentication
```

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

```
default
```

```
15
```

```
CONFIG-LINE-CONSOLE
```

```
CONFIG-LINE-TELNET
```

```
CONFIG-LINE-SSH
```

```
:
```

```
esr(config-line-console)# login authentication login-test
```

## password

```
. , sha512.
```

```
(no) .
```

```
password { <CLEAR-TEXT> | encrypted <HASH_SHA512> }
```

```
no password
```

```
<CLEAR-TEXT> - , [1 .. 32] , [0-9a-fA-F];
```

```
<HASH_SHA512> - sha512, 110 .
```

```
15
```

```
CONFIG-USER
```

```
CHANGE-EXPIRED-PASSWORD
```

```
:
```

```
esr(config-user) password test
```

## port

```
c .
```

```
(no) .
```

```
port <PORT>
```

```
no port
```

```
<PORT> – TCP/UDP- c , [1..65535].
```

```
49 TACACS-
```

```
389 LDAP-
```

```
DAS-
```

```
15
```

```
CONFIG-TACACS-SERVER
```

```
CONFIG-LDAP-SERVER
```

```
CONFIG-DAS-SERVER
```

```
:  
esr(config-tacacs-server)# port 4444
```

## priority

```
., .
```

```
(no) .
```

```
priority <PRIORITY>
```

```
no priority
```

```
<PRIORITY> – , [1..65535].
```

```
1
```

```
15
```

```
CONFIG-TACACS-SERVER
```

```
CONFIG-RADIUS-SERVER
```

```
CONFIG-LDAP-SERVER
```

```
:  
esr(config-tacacs-server)# priority 5
```

## privilege

```
., . . 1 9 . 10 15 . 15 . , description.
```

```
(no) .
```

- ;
  - , RADIUS, cisco-avpair = "shell:priv-lvl=<PRIV>";
  - , TACACS, priv-lvl=<PRIV>;
  - LDAP
- privilege-level-attribute**, **line**, **priv-lvl=<PRIV>**;

TACACS/RADIUS/LDAP , «remote», 1. «remote» .

```
privilege <PRIV>
no privilege
```

<PRIV> – , [1..15].

1

15

CONFIG-USER

```
:  
esr(config-user)# privilege 15
```

## privilege

(no) .

```
privilege <COMMAND-MODE> level <PRIV> <COMMAND>
no privilege <COMMAND-MODE> <COMMAND>
```

<COMMAND-MODE> – , :

- change-expired-password;
- config;
- config-aaa-das-profile;
- config-aaa-radius-profile;
- config-access-profile;
- config-acl;
- config-acl-rule;
- config-archive;
- config-bgp;
- config-bgp-af;
- config-bgp-group;
- config-bgp-neighbor;
- config-bridge;
- config-cellular-modem;
- config-cellular-profile;
- config-class-map;
- config-class-policy-map;
- config-das-server;
- config-dhcp-server;
- config-dhcp-vendor-id;
- config-dnat;

- config-dnat-pool;
- config-dnat-rule;
- config-dnat-ruleset;
- config-e1;
- config-gre;
- config-if-gi;
- config-if-te;
- config-ike-gw;
- config-ike-policy;
- config-ike-proposal;
- config-ip4ip4;
- config-ipsec-policy;
- config-ipsec-proposal;
- config-ipsec-vpn;
- config-ipv6-bgp-af;
- config-ipv6-bgp-group;
- config-ipv6-bgp-neighbor;
- config-ipv6-dhcp-server;
- config-ipv6-ospf;
- config-ipv6-ospf-area;
- config-ipv6-ospf-vlink;
- config-ipv6-pl;
- config-ipv6-wan-rule;
- config-ipv6-wan-target;
- config-ipv6-wan-target-list;
- config-keychain;
- config-keychain-key;
- config-l2tp-server;
- config-l2tpv3;
- config-ldap-server;
- config-line-console;
- config-line-ssh;
- config-line-telnet;
- config-loopback;
- config-lt;
- config-mst;
- config-multilink;
- config-netflow-host;
- config-network-policy;
- config-ntp;
- config-object-group-application;
- config-object-group-mac;
- config-object-group-network;
- config-object-group-service;
- config-object-group-url;
- config-openvpn;
- config-openvpn-server;
- config-ospf;
- config-ospf-area;
- config-ospf-vlink;
- config-pl;
- config-policy-map;
- config-pool;
- config-port-channel;
- config-ppp-user;
- config-pppoe;
- config-pptp;
- config-pptp-server;
- config-profile;
- config-qinq-if;
- config-radius-server;
- config-rip;
- config-route-map;
- config-route-map-rule;
- config-service-port;
- config-sflow-host;
- config-snat;
- config-snat-pool;
- config-snat-rule;
- config-snat-ruleset;
- config-snmp-host;
- config-snmp-user;
- config-softgre;
- config-subif;
- config-subscriber-control;
- config-subscriber-default-service;
- config-subtunnel;
- config-tacacs-server;
- config-tracking;

- config-user;
- config-vlan;
- config-vrf;
- config-vti;
- config-wan-rule;
- config-wan-target;
- config-wan-target-list;
- config-wireless;
- config-zone;
- config-zone-pair;
- config-zone-pair-rule;
- debug;
- root.

<PRIV> - , [1..15];

<COMMAND> - , 255 .

15

CONFIG

:

«show» 2. «show interfaces» 1.

```
esr(config)# privilege root level 2 "show"
esr(config)# privilege root level 1 "show interfaces"
```

**radius-server dscp**

DSCP IP- RADIUS-.

(no) DSCP .

```
radius-server dscp <DSCP>
no radius-server dscp
```

<DSCP> - DSCP, [0..63].

63

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CONFIG

:

```
esr(config)# radius-server dscp 40
```

**radius-server host**

RADIUS- RADIUS SERVER.

(no) RADIUS-.

```
[no] radius-server host { <ADDR> | <IPV6-ADDR> } [ vrf <VRF> ]
```

<VRF> – VRF, 31 .

<ADDR> – IP- RADIUS-, AAA.BBB.CCC.DDD, [0..255];

<IPV6-ADDR> – IPv6- RADIUS-, X:X:X:X::X, [0..FFFF].

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## CONFIG

:

```
esr(config)# radius-server host 10.100.100.1  
esr(config-radius-server)#[
```

## radius-server host

RADIUS- RADIUS-.

(no) RADIUS- .

```
[no] radius-server host { <ADDR> | <IPV6-ADDR> } [ vrf <VRF> ]
```

<VRF> – VRF, 31 .

<ADDR> – IP- RADIUS-, AAA.BBB.CCC.DDD, [0..255];

<IPV6-ADDR> – IPv6- RADIUS-, X:X:X:X::X, [0..FFFF].

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## CONFIG-RADIUS-SERVER-PROFILE

:

```
esr(config-aaa-radius-profile)# radius-server host 10.100.100.1
```

## radius-server retransmit

RADIUS-, RADIUS- .

(no) .

```
radius-server retransmit <COUNT>
```

```
no radius-server retransmit
```

```
<COUNT> - RADIUS-, [1..10].
```

1

15

CONFIG

:

```
esr(config)# radius-server retransmit 5
```

## radius-server timeout

, , RADIUS- .

(no) .

```
radius-server timeout <SEC>
```

```
no radius-server timeout
```

```
<SEC> - , [1..30].
```

3

10

CONFIG

:

```
esr(config)# radius-server timeout 5
```

## retransmit

RADIUS-, RADIUS- .

(no) .

```
retransmit <COUNT>
```

```
no retransmit
```

```
<COUNT> - RADIUS-, [1..10].
```

, , radius-server retransmit.

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CONFIG-RADIUS-SERVER

```
:  
esr(config)# retransmit 5
```

security passwords default-expired

admin.

(no) .

[no] security passwords default-expired

15

CONFIG

```
:  
esr(config)# security passwords default-expired
```

security passwords history

(no) .

security passwords history <COUNT>

no security passwords history

<COUNT>- , [0..15]. , .

1

## CONFIG

```
:  
esr(config)# security passwords history 5
```

**security passwords lifetime**

,  
(no) .

```
security passwords lifetime <TIME>  
no security passwords lifetime
```

<TIME> – , [1..365].

## CONFIG

```
:  
esr(config)# security passwords lifetime 30
```

**security passwords lower-case**

, ENABLE-, SMNPv3- SMNPv1/SMNPv2 c.  
(no) .

```
security passwords lower-case <COUNT>  
no security passwords lower-case  
  
<COUNT> – , ENABLE-, SMNPv3- SMNPv1/SMNPv2 c [0..32].
```

CONFIG

:

```
esr(config)# security passwords lower-case 2
```

## security passwords max-length

ENABLE-.

(no) .

```
security passwords max-length <NUM>
```

```
no security passwords max-length
```

<NUM> – , [1..32].

32

15

CONFIG

:

```
esr(config)# security passwords max-length 30
```

## security passwords min-length

ENABLE-.

(no) .

```
security passwords min-length <NUM>
```

```
no security passwords min-length
```

<NUM> – , [1..32].

1

15

CONFIG

:

```
esr(config)# security passwords min-length 10
```

## security passwords numeric-count

, ENABLE-, SMNPv3- SMNPv1/SMNPv2 c .

(no) .

```
security passwords numeric-count <COUNT>
```

```
no security passwords numeric-count
```

```
<COUNT> – , ENABLE-, SMNPv3- SMNPv1/SMNPv2 c [0..32].
```

0

15

## CONFIG

:

```
esr(config)# security passwords numeric-count 2
```

## security passwords special-case

, ENABLE-, SMNPv3- SMNPv1/SMNPv2 c .

(no) .

```
security passwords special-case <COUNT>
```

```
no security passwords special-case
```

```
<COUNT> – , ENABLE-, SMNPv3- SMNPv1/SMNPv2 c [0..32].
```

0

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## CONFIG

:

```
esr(config)# security passwords special-case 2
```

## security passwords symbol-types

```
, , ENABLE-, SMNPv3- SMNPv1/SMNPv2 c .  
(no) .
```

```
security passwords symbol-types <COUNT>  
no security passwords symbol-types
```

```
<COUNT> - , ENABLE-, SMNPv3- SMNPv1/SMNPv2 c [1..4].
```

```
1
```

```
15
```

## CONFIG

```
:
```

```
esr(config)# security passwords symbol-types 2
```

## security passwords upper-case

```
() , ENABLE-, SMNPv3- SMNPv1/SMNPv2c .  
(no) .
```

```
security passwords upper-case <COUNT>  
no security passwords upper-case
```

```
<COUNT> - () , ENABLE-, SMNPv3- SMNPv1/SMNPv2 c [0..32].
```

```
0
```

```
15
```

## CONFIG

```
:
```

```
esr(config)# security passwords upper-case 2
```

## security snmp-community max-length

```
SMNPv1/SMNPv2 c .
```

(no) .

```
security snmp-community max-length <NUM>
no security snmp-community max-length
```

<NUM> – , [1..128].

128

15

CONFIG

:

```
esr(config)# security snmp-community max-length 30
```

## security snmp-community min-length

SMNPv1/SMNPv2 c .

(no) .

```
security passwords min-length <NUM>
no security passwords min-length
```

<NUM> – , [1..128].

1

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CONFIG

:

```
esr(config)# security snmp-community min-length 10
```

## show aaa accounting

```
show aaa accounting
```

10

ROOT

```
:  
esr# show aaa accounting  
Login : radius  
Commands : tacacs
```

## show aaa authentication

show aaa authentication

10

ROOT

```
:  
esr# show aaa authentication  
Login Authentication Method Lists  
~~~~~  
List Methods  
-----  
default local  
Enable Authentication Method Lists  
~~~~~  
List Methods  
-----  
default enable  
Lines configuration  
~~~~~  
Line Login method list Enable method list  
-----  
console default default  
telnet default default  
ssh default default
```

## show aaa ldap-servers

LDAP-.

show aaa ldap-servers

15

ROOT

```
esr# show aaa ldap-servers
Base DN: dc=example,dc=com
Root DN: cn=admin,dc=example,dc=com
Root password: CDE65039E5591FA3
Naming attribute: uid
Privilege level attribute: priv-lvl
User object class: posixAccount
DSCP: 63
Bind timeout: 3
Search timeout: 0
Search scope: subtree
IP Address Port Priority
-----
10.100.100.1 389 1
```

## show aaa radius-servers

RADIUS-.

show aaa radius-servers

15

ROOT

```
esr# show aaa radius-servers
Timeout: 3
Retransmit: 1
DSCP: 63
IP Address Timeout Priority Usage Key
-----
2.2.2.2 -- 1 all 9DA7076CA30B5FFE0DC9C4
2.4.4.4 -- 1 all 9DA7076BA30B4EFCE5
```

## show aaa tacacs-servers

TACACS-.

show aaa tacacs-servers

15

ROOT

:

```
esr# show aaa tacacs-servers
Timeout :      3
DSCP:       63
IP Address          Port      Priority      Key
-----
10.100.100.1        49          1      CDE65039E5591FA3
10.100.100.5        49         10      CDE65039E5591FA3
```

show users

show users

1

ROOT

:

```
esr# show users
User name    Logged in at      Host      Timers Login/Priv   level
-----
admin        13/02/15 01:14:25  Console    00:29:57/00:00:00  15
1 user sessions.
```

show users accounts

show users accounts

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ROOT

esr# show user accounts		
Name	Password	Privilege
admin	\$6\$1sxrvGaV8Za8oX/K\$YNel5xYPZ4cj bemYWYNpQBQKDxWE9v0aoKgQ kRCEb0EMNuusO9Kmg7UBs7nA3buEM87e Eu.rA6tZq0	15
techsupport	\$6\$YfwntIwU\$ah7UxPZTemKhjpSWvVsV 9jHcp. 9lweQaSldw7ZtUr uH66uZx9.EBASff//hUj8ObUaC484TNR x.	15
remote	\$6\$YfwntIwU\$ah7UxPZTemKhjpSWvVsV 9jHcp.kqFAK.vmvY9lweQaSldw7ZtUr uH66uZx9.EBASff//hUj8ObUaC484TNR x.	1
operator	\$6\$eILpbbyRxedCzvVD\$4RHP08mjXvNf urX7V/ULCZloHIWMwE6h5f zgwZQUZcPoZCEyaqQQqCicRMRuPwhxrQ bvGChWreWl	1

## show users blocked

show users blocked [ <NAME> ]

<NAME>- , , 31 .

1

ROOT

esr# show users blocked			
User name	Failures	Latest failure	From
tester	4	10/09/17 08:29:42	0.0.0.0

## source-address

IPv4/IPv6- , IPv4/IPv6- AAA-.

(no) IPv4/IPv6- .

source-address { <ADDR> | <IPV6-ADDR> }

no source-address

```
<ADDR> – IP- , AAA.BBB.CCC.DDD, [0..255];
<IPV6-ADDR> – IPv6- , X:X:X::X, [0..FFFF].
```

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CONFIG-RADIUS-SERVER

CONFIG-TACACS-SERVER

CONFIG-LDAP-SERVER

:

```
esr(config-radius-server)# source-address 220::71
```

## source-interface

, IPv4/IPv6- IPv4/IPv6- AAA-.

(no) .

```
source-interface { <IF> | <TUN> }
no source-interface
```

<IF> – , ;

<TUN> – , .

15

CONFIG-RADIUS-SERVER

:

```
esr(config-radius-server)# source-interface gigabitethernet 1/0/1
```

## system configuration-exclusively

CLI .

(no) .

```
[no] system configuration-exclusively
```

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CONFIG

:

```
esr(config)# system configuration-exclusively
```

tacacs-server dscp

DSCP IP- TACACS-.

(no) DSCP .

tacacs-server dscp <DSCP>

no tacacs-server dscp

<DSCP> – DSCP, [0..63].

63

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CONFIG

:

```
esr(config)# tacacs-server dscp 40
```

tacacs-server host

TACACS- TACACS SERVER.

(no) TACACS-.

[no] tacacs-server host { <ADDR> | <IPV6-ADDR> } [ vrf <VRF> ]

<VRF> – VRF, 31 .

<ADDR> – IP- TACACS-, AAA.BBB.CCC.DDD, [0..255].

<IPV6-ADDR> – IPv6- TACACS-, X:X:X::X, [0..FFFF].

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CONFIG

```
:  
esr(config)# tacacs-server host 10.100.100.1  
esr(config-tacacs-server)#
```

## tacacs-server timeout

, , TACACS-.  
(no) .

```
tacacs-server timeout <SEC>  
no tacacs-server timeout
```

```
<SEC>- , [1..30].
```

3.

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## CONFIG

```
:  
esr(config)# tacacs-server timeout 5
```

## tech-support login enable

«techsupport»., .  
(no) «techsupport».

```
[no] tech-support login enable
```

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## CONFIG

```
:  
esr(config)# tech-support login enable
```

## timeout

```
, , RADIUS-.
```

```
(no) .
```

```
timeout <SEC>
```

```
no timeout
```

```
<SEC>- , [1..30].
```

```
, , radius-server timeout.
```

```
10
```

```
CONFIG-RADIUS-SERVER
```

```
:
```

```
esr(config-radius-server)# timeout 7
```

## usage

```
RADIUS-.
```

```
(no) .
```

```
usage { all | aaa | auth | acct | pptp | l2tp }
```

```
no usage
```

```
all- ;
```

```
aaa - RADIUS- , telnet, ssh console ;
```

```
auth - RADIUS- telnet, ssh console ;
```

```
acct - RADIUS- telnet, ssh console ;
```

```
pptp - RADIUS- , , PPTP;
```

```
l2tp - RADIUS- , , L2TP over IPsec.
```

```
all
```

```
15
```

```
CONFIG-RADIUS-SERVER
```

```
:
```

```
esr(config-radius-server)# usage pptp
```

## username

(no) .

[no] username <NAME>

<NAME>- , 31. , «all» .

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## CONFIG

:

```
esr(config)# username test
esr(config-user)#
```