

Firewall

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action

, , .

(no) .

action <ACT> [log]

no action

<ACT> – :

- permit – ;

- deny – ;
- reject – , ;
- netflow-sample – Netflow;
- sflow-sample – sFlow;
- log – , .

, .

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CONFIG-ZONE-PAIR-RULE

```
esr(config-zone-rule)# action permit
```

clear ip firewall counters

Firewall.

```
clear ip firewall counters [ vrf <VRF> ] [ <SOURCE-ZONE> [ <DESTINATION-ZONE> [<ORDER>] ] ]
```

<VRF> – VRF, 31. VRF;

<SOURCE-ZONE> – , ;

<DESTINATION-ZONE> – , ;

<ORDER> – , [1..10000].

10

ROOT

```
esr# clear ip firewall counters trusted self
```

clear ip firewall sessions

IP-.

```
clear ip firewall sessions [ vrf <VRF> ] [ protocol <TYPE> ] [ inside-source-address <ADDR> ] [ outside-source-address <ADDR> ] [ inside-destination-address <ADDR> ] [ outside-destination-address <ADDR> ] [ inside-source-port <PORT> ] [ outside-source-port <PORT> ] [ inside-destination-port <PORT> ] [ outside-destination-port <PORT> ]
```

<VRF> – VRF, 31. VRF;

<TYPE> – , : esp, icmp, ah, eigrp, ospf, igmp, ipip, tcp, pim, udp, vrrp, rdp, l2tp, gre;

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

<PORT> – TCP/UDP , [1..65535];
inside-source-address – IP- , ;
inside-destination-address – IP- , ;
outside-source-address – IP- , ;
outside-destination-address – IP- ;
inside-source-port – TCP/UDP ;
outside-source-port – TCP/UDP ;
inside-destination-port – TCP/UDP ;
outside-destination-port – TCP/UDP .

10

ROOT

```
esr# clear ip firewall sessions vrf VRF1
```

clear ipv6 firewall counters

Firewall.

```
clear ipv6 firewall counters [ vrf <VRF> ] [ <SOURCE-ZONE> [ <DESTINATION-ZONE> [<ORDER>] ] ]
```

<VRF> – VRF, 31. VRF.

<SOURCE-ZONE> – , .

<DESTINATION-ZONE> – , .

<ORDER> – , [1..10000].

10

ROOT

```
esr# clear ipv6 firewall counters trusted self
```

clear ipv6 firewall sessions

IPv6-.

```
clear ipv6 firewall sessions [ vrf <VRF> ] [ protocol <TYPE> ] [ inside-source-address <IPv6-ADDR> ] [ outside-source-address <IPv6-ADDR> ] [ inside-destination-address <IPv6-ADDR> ] [ outside-destination-address <IPv6-ADDR> ] [ inside-source-port <PORT> ] [ outside-source-port <PORT> ] [ inside-destination-port <PORT> ] [ outside-destination-port <PORT> ]
```

<VRF> – VRF, 31 . VRF.

<TYPE> – , : esp, icmp, ah, eigrp, ospf, igmp, ipip, tcp, pim, udp, vrrp, rdp, l2tp, gre.

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

<PORT> – TCP/UDP , [1..65535];

inside-source-address – IPv6- , .

inside-destination-address – IPv6- , .

outside-source-address – IPv6- , .

outside-destination-address – IPv6- ;

inside-source-port – TCP/UDP ;

outside-source-port – TCP/UDP ;

inside-destination-port – TCP/UDP ;

outside-destination-port – TCP/UDP .

10

ROOT

```
esr# clear ipv6 firewall sessions vrf VRF1
```

description

. (no) .

description <DESCRIPTION>

no description

<DESCRIPTION> – , 255 .

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CONFIG-ZONE

CONFIG-ZONE-PAIR

CONFIG-ZONE-PAIR-RULE

```
esr(config-zone)# description "Trusted interfaces"
```

enable

.

(no) .

[no] enable

.

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CONFIG-ZONE-PAIR-RULE

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

ip firewall disable

Firewall .

(no) Firewall .

[no] ip firewall disable

.

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CONFIG-GI

CONFIG-TE

CONFIG-SUBIF

CONFIG-QINQ-IF

CONFIG-SERIAL

CONFIG-PORT-CHANNEL

CONFIG-BRIDGE

CONFIG-E1

CONFIG-MULTILINK

CONFIG-CELLULAR-MODEM

CONFIG-VTI

CONFIG-GRE

CONFIG-IP4IP4

CONFIG-L2TP
CONFIG-LT
CONFIG-PPPOE
CONFIG-PPTP
CONFIG-OPENVPN

```
esr(config-if-gi)# ip firewall disable
```

ip firewall mode

.
(no) .

```
ip firewall mode <MODE>  
no ip firewall mode
```

<MODE> – , :

- stateful – , . , . DPI.
- stateless – , . , .

stateful

15

CONFIG

```
esr(config-if-gi)# ip firewall mode stateless
```

ip firewall sessions counters

NAT Firewall. , . . .

[show ip firewall counters](#), [show ip firewall sessions](#), [show ipv6 firewall counters](#) [show ipv6 firewall sessions](#) .

(no) .

```
[no] ip firewall sessions counters
```

.

.

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CONFIG

```
esr(config)# ip firewall sessions counters
```

ip firewall sessions allow-unknown

, - .
(no) .

[no] ip firewall sessions allow-unknown

.

.

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CONFIG

```
esr(config)# ip firewall sessions allow-unknown
```

ip firewall sessions generic-timeout

, .
(no) .

ip firewall sessions generic-timeout <TIME>

no ip firewall sessions generic-timeout

<TIME> – , [1..8553600].

60

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CONFIG

```
esr(config)# ip firewall sessions generic-timeout 60
```

ip firewall sessions icmp-timeout

ICMP-, .

(no) .

```
ip firewall sessions icmp-timeout <TIME>
```

```
no ip firewall sessions icmp-timeout
```

<TIME> – ICMP-, [1..8553600].

30

15

CONFIG

```
esr(config)# ip firewall sessions icmp-timeout 60
```

ip firewall sessions icmpv6-timeout

ICMPv6-, .

(no) .

```
ip firewall sessions icmpv6-timeout <TIME>
```

```
no ip firewall sessions icmpv6-timeout
```

<TIME> – ICMPv6-, [1..8553600].

30

15

CONFIG

```
esr(config)# ip firewall sessions icmpv6-timeout 60
```


ip firewall sessions max-expect

.
(no) .

ip firewall sessions max-expect <COUNT>
no ip firewall sessions max-expect

<COUNT> – , [1..8553600].

256

15

CONFIG

```
esr(config)# ip firewall sessions max-expect 512
```

ip firewall sessions max-tracking

.
(no) .

ip firewall sessions max-tracking <COUNT>
no ip firewall sessions max-tracking

<COUNT> – , [1..8553600].

512000

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CONFIG

```
esr(config)# ip firewall sessions max-tracking 256000
```

ip firewall sessions tcp-connect-timeout

TCP- « », .
(no) .

```
ip firewall sessions tcp-connect-timeout <TIME>
no ip firewall sessions tcp-connect-timeout
```

<TIME> – TCP- "", [1..8553600].

60

15

CONFIG

```
esr(config)# ip firewall sessions tcp-connect-timeout 120
```

ip firewall sessions tcp-disconnect-timeout

TCP- "", .

(no) .

```
ip firewall sessions tcp-disconnect-timeout <TIME>
no ip firewall sessions tcp-disconnect-timeout
```

<TIME> – TCP- "", [1..8553600].

30

15

CONFIG

```
esr(config)# ip firewall sessions tcp-disconnect-timeout 10
```

ip firewall sessions tcp-established-timeout

TCP- "", .

(no) .

```
ip firewall sessions tcp-established-timeout <TIME>
no ip firewall sessions tcp-established-timeout
```

<TIME> – TCP- "", [1..8553600].

120

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CONFIG

```
esr(config)# ip firewall sessions tcp-established-timeout 3600
```

ip firewall sessions tcp-latecome-timeout

, TCP- .

(no) .

ip firewall sessions tcp-latecome-timeout <TIME>

no ip firewall sessions tcp-latecome-timeout

<TIME> – , [1..8553600].

120

15

CONFIG

```
esr(config)# ip firewall sessions tcp-latecome-timeout 10
```

ip firewall sessions tracking

.

(no) .

ip firewall sessions tracking { <PROTOCOL> | sip [port <OBJECT-GROUP-SERVICE>] }
no ip firewall sessions tracking { <PROTOCOL> | sip [port <OBJECT-GROUP-SERVICE>] | all }

<PROTOCOL> – , , [ftp, h323, pptp, netbios-ns].

<OBJECT-GROUP-SERVICE> – TCP/UDP- sip, 31. , sip 5060.

"all", .

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CONFIG

```
esr(config)# ip firewall sessions tracking ftp
```

ip firewall sessions udp-assured-timeout

UDP- " ", .

(no) .

ip firewall sessions udp-assured-timeout <TIME>

no ip firewall sessions udp-assured-timeout

<TIME> – UDP- " ", [1..8553600].

180

15

CONFIG

```
esr(config)# ip firewall sessions udp-assured-timeout 3600
```

ip firewall sessions udp-wait-timeout

UDP- « », .

(no) .

ip firewall sessions udp-wait-timeout <TIME>

no ip firewall sessions udp-wait-timeout

<TIME> – UDP- « », [1..8553600].

30

10

CONFIG

```
esr(config)# ip firewall sessions udp-wait-timeout 60
```

match application

, . (DPI)

«not» , .

(no) .

match [not] application <OBJ-GROUP-APPLICATION>

no match application

<OBJ-GROUP-APPLICATION> – , 31.

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CONFIG-ZONE-PAIR-RULE

```
esr(config-zone-rule)# match application APP_DENY
```

match destination-address

IP-, .

«not» IP-, .

(no) .

match [not] destination-address <OBJ-GROUP-NETWORK-NAME>

no match destination-address

<OBJ-GROUP-NETWORK-NAME> – IP-, 31. «any» IP-.

any

10

CONFIG-ZONE-PAIR-RULE

```
esr(config-zone-rule)# match destination-address local
```

match destination-address-port

IP- TCP/UDP-, .
«not» IP- TCP/UDP-, .
(no) .

```
match [not] destination-address-port <OBJ-GROUP-ADDRESS-PORT-NAME>  
no match destination-address
```

<OBJ-GROUP-ADDRESS-PORT-NAME> – IP- TCP/UDP-, 31. «any» .

any

10

CONFIG-ZONE-PAIR-RULE

```
esr(config-zone-rule)# match destination-address local
```

match destination-mac

MAC-, .
«not» (match not) MAC-, .
(no) .

```
match [not] destination-mac <ADDR>  
no match destination-mac <ADDR>
```

<ADDR> – -, XX:XX:XX:XX:XX:XX, [00..FF].

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CONFIG-ZONE-PAIR-RULE

```
esr(config-zone-rule)# match destination-mac A8:F9:4B:AA:00:40
```

match destination-nat

, , IP- .
«not» , IP- . (no) .

```
match [not] destination-nat
no match destination-nat
```

.

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CONFIG-ZONE-PAIR-RULE

```
esr(config-zone-rule)# match destination-nat
```

match destination-port

TCP/UDP-, .
«not» TCP/UDP-, .
(no) .

```
match [not] destination-port <PORT-SET-NAME>
no match destination-port
```

<PORT-SET-NAME> – TCP/UDP-, 31. «any» TCP/UDP-.

any

10

CONFIG-ZONE-PAIR-RULE

```
esr(config-zone-rule)# match destination-port ssh
```

match fragment

, . any self. . DNAT.
«not» .
(no) .

```
match [not] fragment
no match fragmen
```

10

CONFIG-ZONE-PAIR-RULE

```
esr(config-zone-pair-rule)# match fragment
```

match icmp

```
      ICMP,    «match protocol».    ICMP,    .
«not»      ICMP, .
(no) .
```

```
match [not] icmp { <ICMP_TYPE> <ICMP_CODE> | <OPTION> }
no match icmp
```

<ICMP_TYPE> – ICMP, [0..255];

<ICMP_CODE> – ICMP, [0..255]. «any» ICMP

<OPTION> – ICMP-, :

- administratively-prohibited;
- alternate-address;
- conversion-error;
- dod-host-prohibited;
- dod-network-prohibited;
- echo;
- echo-reply;
- host-isolated;
- host-precedence;
- host-redirect;
- host-tos-redirect;
- host-tos-unreachable;
- host-unknown;
- host-unreachable;
- information-reply;
- information-request;
- mask-reply;
- mask-request;
- network-redirect;
- network-tos-redirect;
- network-tos-unreachable;
- network-unknown;
- network-unreachable;
- option-missing;
- packet-too-big;
- parameter-problem;
- port-unreachable;
- precedence;
- protocol-unreachable;

- reassembly-timeout;
- router-advertisement;
- router-solicitation;
- source-quench;
- source-route-failed;
- time-exceeded;
- timestamp-reply;
- timestamp-request;
- traceroute.

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CONFIG-ZONE-PAIR-RULE

```
esr(config-zone-rule)# match icmp 2 any
```

match ip-option

, IP-. any self.

<<not>> , IP-.

(no) .

```
match [not] ip-option
no match ip-option
```

.

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CONFIG-ZONE-PAIR-RULE

```
esr(config-zone-pair-rule)# match ip-options
```

match protocol

IP-, .

<<not>> , .

(no) .

```
match [not] protocol <TYPE>
no match protocol
match [not] protocol-id <ID>
```

no match protocol-id

<TYPE> – , : esp, icmp, ah, eigrp, ospf, igmp, ipip, tcp, pim, udp, vrrp, rdp, l2tp, gre.

«any» ;

<ID> – IP-, [0x00-0xFF].

any

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CONFIG-ZONE-PAIR-RULE

```
esr(config-zone-rule)# match protocol udp
```

match source-address

IP-, .

«not» (match not) IP-, .

(no) .

match [not] source-address <OBJ-GROUP-NETWORK-NAME>
no match source-address <OBJ-GROUP-NETWORK-NAME>

<OBJ-GROUP-NETWORK-NAME> – IP-, 31 . «any» IP- .

any

10

CONFIG-ZONE-PAIR-RULE

```
esr(config-zone-rule)# match source-address remote
```

match source-address-port

IP- TCP/UDP-, .

«not» (match not) IP- TCP/UDP-, .

(no) .

```
match [not] source-address-port <OBJ-GROUP-ADDRESS-PORT-NAME>
no match source-address-port <OBJ-GROUP-ADDRESS-PORT-NAME>
```

<OBJ-GROUP-ADDRESS-PORT-NAME> – IP- TCP/UDP-, 31. «any» .

any

10

CONFIG-ZONE-PAIR-RULE

```
esr(config-zone-rule)# match source-address-port admin
```

match source-mac

MAC-, .

«not» (match not) MAC-, .

(no) .

```
match [not] source-mac <ADDR>
no match source-mac <ADDR>
```

<ADDR> --, XX:XX:XX:XX:XX:XX, [00..FF].

10

CONFIG-ZONE-PAIR-RULE

```
esr(config-zone-rule)# match source-mac A8:F9:4B:AA:00:40
```

match source-port

TCP/UDP-, .

«not» TCP/UDP-, .

(no) .

```
match [not] source-port <PORT-SET-NAME>
no match source-port
```

<PORT-SET-NAME> – TCP/UDP-, 31. «any» TCP/UDP-.

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CONFIG-ZONE-PAIR-RULE

```
esr(config-zone-rule)# match source-port telnet
```

ports firewall enable

Bridge-.

(no) .

[no] ports firewall enable

.

.

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CONFIG-BRIDGE

```
esr(config-bridge)# ports firewall enable
```

rate-limit pps

. any self action permit .

(no) .

rate-limit pps <RATE>

no rate-limit

<PPS> – , [1..10000].

.

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CONFIG-ZONE-PAIR-RULE

```
esr(config-if-gi)# rate-limit pps 200
```

rearrange

.

rearrange <VALUE>

<VALUE> – , [1..50].

10

CONFIG-ZONE-PAIR

```
esr(config-zone-pair)# rearrange 10
```

renumber rule

.

renumber rule <CUR_ORDER> <NEW_ORDER>

<CUR_ORDER> – , [1..10000];

<NEW_ORDER> – , [1..10000].

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CONFIG-ZONE-PAIR

```
esr(config-zone-pair)# renumber rule 13 100
```

rule

SECURITY ZONE PAIR RULE. .

(no) .

[no] rule <ORDER>

<ORDER> – , [1..10000]. "all", .

10

CONFIG-ZONE-PAIR

```
esr(config-zone-pair)# rule 10
esr(config-zone-rule)#
```

security zone

.

(no) .

[no] security zone [<NAME> | all]

<NAME> – , 12. «all» .

10

CONFIG

```
esr(config)# security zone trusted
esr(config-zone)#
```

security-zone

. (no) .

security-zone <NAME>

no security-zone

<NAME> – , 12.

15

CONFIG-GI

CONFIG-TE

CONFIG-SUBIF

CONFIG-QINQ-IF

CONFIG-SERIAL
CONFIG-PORT-CHANNEL
CONFIG-BRIDGE
CONFIG-CELLULAR-MODEM
CONFIG-E1
CONFIG-MULTILINK
CONFIG-VTI
CONFIG-GRE
CONFIG-IP4IP4
CONFIG-LT
CONFIG-PPPOE
CONFIG-PPTP
CONFIG-L2TP
CONFIG-OPENVPN
CONFIG-L2TP-SERVER
CONFIG-OPENVPN-SERVER
CONFIG-PPTP-SERVER

```
esr(config-if-gi)# security-zone trusted
```

security zone-pair

.
(no) .

[no] security zone-pair <SOURCE-ZONE> <DESTINATION-ZONE>

<SOURCE-ZONE> – , ;

<DESTINATION-ZONE> – , . «self». , , «self». «all», .

10

CONFIG

```
esr(config)# security zone-pair trusted self
```

show ip firewall counters

, , .

```
show ip firewall counters [ vrf <VRF> ] [ <SOURCE-ZONE> [ <DESTINATION-ZONE> [ <ORDER> ] ] ]
```

```
<VRF>- VRF, 31. VRF;
<DESTINATION-ZONE>- , ;
<SOURCE-ZONE>- , ;
<ORDER>- , [1..10000].
```

1

ROOT

esr# show ip firewall counters trusted self

Zone-pair	Rule	Action	Pkts	Bytes
any/any	default	deny	0	0
trusted/self	1	permit	0	0
trusted/trusted	1	permit	0	0

show ip firewall sessions

```
IP-.

show ip firewall sessions [ vrf <VRF> ] [ protocol <TYPE> ] [ inside-source-address <ADDR> ] [ outside-source-address <ADDR> ] [ inside-destination-address <ADDR> ] [ outside-destination-address <ADDR> ] [ inside-source-port <PORT> ] [ outside-source-port <PORT> ] [ inside-destination-port <PORT> ] [ outside-destination-port <PORT> ] [ summary ] [ configuration ] [ expected ]

<VRF>- VRF, 31. VRF;
<TYPE>- , : esp, icmp, ah, eigrp, ospf, igmp, ipip, tcp, pim, udp, vrrp, rdp, l2tp, gre;
<ADDR>- IP-, AAA.BBB.CCC.DDD, [0..255];
<PORT>- TCP/UDP , [1..65535];
inside-source-address - IP-, ;
inside-destination-address - IP-, ;
outside-source-address - IP-, ;
outside-destination-address - IP- ;
inside-source-port - TCP/UDP ;
outside-source-port - TCP/UDP ;
inside-destination-port - TCP/UDP ;
outside-destination-port - TCP/UDP ;
summary - IP-;
configuration - IP-;
expected - , .
```


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ROOT

```
esr# show ip firewall sessions
Prot Inside source   Inside destination  Outside source  Outside destination  Pkts  Bytes
---  -
vrrp  4.4.4.4            224.0.0.18         4.4.4.4         224.0.0.18         --    --
```

show ip firewall sessions tracking

.

show ip firewall sessions tracking

.

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ROOT

```
esr# show ip firewall sessions tracking
Tracking Status:
  FTP:      Enabled
  H.323:    Enabled
  GRE:      Enabled
  PPTP:     Enabled
  NETBIOS-NS: Enabled
  SIP:      Enabled
```

show ipv6 firewall counters

, , .

show ipv6 firewall counters [vrf <VRF>] [<SOURCE-ZONE> [<DESTINATION-ZONE> [<ORDER>]]]

<VRF>- VRF, 31. VRF;
<DESTINATION-ZONE>- , ;
<SOURCE-ZONE>- , ;
<ORDER>- , [1..10000]. .

1

ROOT

```
esr# show ipv6 firewall counters trusted self
Zone-pair      Rule      Action      Pkts      Bytes
-----
any/any         default   deny        0          0
trusted/self    1         permit      0          0
trusted/trusted 1         permit      0          0
```

show ipv6 firewall sessions

IPv6-.

```
show ipv6 firewall sessions [ vrf <VRF> ] [summary] [ protocol <TYPE> ] [ inside-source-address <IPV6-ADDR> ] [
outside-source-address <IPV6-ADDR> ] [ inside-destination-address <IPV6-ADDR> ] [ outside-destination-address
<IPV6-ADDR> ] [ inside-source-port <PORT> ] [ outside-source-port <PORT> ] [ inside-destination-port <PORT> ] [
outside-destination-port <PORT> ] [ expected ] [ summary ]
```

```
<VRF>- VRF, 31. VRF;
<TYPE>- , : esp, icmp, ah, eigrp, ospf, igmp, ipip, tcp, pim, udp, vrrp, rdp, l2tp, gre;
<IPV6-ADDR>- IPv6-, X:X:X:X::X, [0..FFFF];
<PORT>- TCP/UDP , [1..65535];
inside-source-address - IPv6- , ;
inside-destination-address - IPv6- , ;
outside-source-address - IPv6- , ;
outside-destination-address - IPv6- ;
inside-source-port - TCP/UDP ;
outside-source-port - TCP/UDP ;
inside-destination-port - TCP/UDP ;
outside-destination-port - TCP/UDP ;
expected - , ;
summary - IPv6-.
```

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ROOT

```
esr# show ipv6 firewall sessions
Prot  Inside source  Inside destination  Outside source  Outside destination  Pkts  Bytes  -----
icmp6 fc00::2      fc00::2             fc00::2         fc00::2           --    --
icmp6 fc00::2      fc00::1             fc00::2         fc00::1           --    --
```

show security zone

. .

show security zone [<NAME>]

<NAME> – , 31.

1

ROOT

```
esr# show security zone
Zone name      Interfaces
-----
trusted        gi1/0/2-6, gi1/0/8-24, bridge 1
untrusted      gi1/0/1, te1/0/1-2, bridge 2
```

show security zone-pair

. .

show security zone-pair

.

1

ROOT

```
esr# show security zone-pair
From zone      To zone
-----
trusted        untrusted
trusted        trusted
trusted        self
untrusted      self
```

show security zone-pair configuration

. .

show security zone-pair configuration <SOURCE-ZONE> <DESTINATION-ZONE> [<ORDER>]

<SOURCE-ZONE> – , ;

<DESTINATION-ZONE> – , ;

<ORDER> – , [1..10000].

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ROOT

```
esr# show security zone-pair configuration trusted self
Order:          1
Description:    --
Matching pattern:
  Protocol:      tcp(6)
  Src-addr:      any
  src-port:      any
  Dest-addr:     any
  dest-port:     23
0               0
```