

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- , ;  
outiside-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 .
```

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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 .
```

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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

10

CONFIG-ZONE-PAIR-RULE

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

ip firewall disable

Firewall .

(no) Firewall .

[no] ip firewall disable

15

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

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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

15

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

15

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

15

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

15

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

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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, [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

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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
```

.

.

.

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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

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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

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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- .
```

10

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].
```

15

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 .
```

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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]. .

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ROOT

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].
```

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ROOT

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-.

1

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, tel1/0/1-2, bridge 2
```

show security zone-pair

```
show security zone-pair
```

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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
```