

IPv6-

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ipv6 address

IPv6- IPv6- : , , .

(no) IPv6- . IPv6- .



IPv6- VLAN ID, . IPv6- Ethernet- VLAN. VLAN IP-, IPv6- VLAN .

VLAN ID ip internal-usage vlan <VLAN_ID>.

```
ipv6 address <IPv6-ADDR/LEN>
```

```
no ipv6 address {<IPv6-ADDR/LEN>|all}
```

<IPv6-ADDR/LEN> – IP- , X:X:X:X::X/EE, X [0..FFFF] EE [1..128]. IPv6- . 8 IPv6- (IP-) . «all» IPv6-.

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CONFIG-GI

CONFIG-TE

CONFIG-SUBIF

CONFIG-QINQ-IF

CONFIG-PORT-CHANNEL

CONFIG-BRIDGE

CONFIG-LOOPBACK

CONFIG-LT

```
esr(config-if-gi)# ipv6 address fc00::1/120
```

ipv6 enable

IPv6 .

(no) IPv6 .

```
[no] ipv6 enable
```

.

IPv6 .

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CONFIG-GI

CONFIG-TE

CONFIG-SUBIF

CONFIG-QINQ-IF

CONFIG-PORT-CHANNEL

CONFIG-BRIDGE

CONFIG-LOOPBACK

CONFIG-LT

```
esr(config-if-gi)# ipv6 enable
```

ipv6 nd managed-config-flag

managed-config-flag SLAAC-. IPv6- DHCPv6-.

(no) .

```
[no] ipv6 nd managed-config-flag
```

.

.

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CONFIG-GI

CONFIG-TE

CONFIG-SUBIF

CONFIG-QINQ-IF

CONFIG-LOOPBACK

CONFIG-PORT-CHANNEL

CONFIG-BRIDGE

```
esr(config)# ipv6 nd managed-config-flag
```

ipv6 nd ns-interval

IPv6- (neighbor solicitation) .

(no) .

```
ipv6 nd ns-interval <TIME>
```

```
no ipv6 nd ns-interval
```

<TIME> - , [1..172800000].

0

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CONFIG-GI

CONFIG-TE

CONFIG-SUBIF

CONFIG-QINQ-IF

CONFIG-LOOPBACK

CONFIG-PORT-CHANNEL

CONFIG-BRIDGE

```
esr(config)# ipv6 nd ns-interval 2000
```

ipv6 nd other-config-flag

other-config-flag SLAAC-. IPv6- SLAAC, DHCPv6.

(no) .

```
[no] ipv6 nd other-config-flag
```

.

.

CONFIG-GI

CONFIG-TE

CONFIG-SUBIF

CONFIG-QINQ-IF

CONFIG-LOOPBACK

CONFIG-PORT-CHANNEL

CONFIG-BRIDGE

```
esr(config)# ipv6 nd other-config-flag
```

ipv6 nd prefix

IPv6- SLAAC- .

(no).

```
ipv6 nd prefix <IPv6-ADDR/LEN> <VLAIID-TIME> <PREFER-TIME> [no-autoconfig] [no-onlink]
no ipv6 nd prefix
```

<IPv6-ADDR/LEN> – IP- , X:X:X:X::X/EE, X [0..FFFF] EE [1..128];

<VLAIID-TIME> – , [1..2147483647];

<PREFER-TIME> – , [1..2147483647];

[no-autoconfig] – Neighbor Discovery (RA), ;

[no-onlink] – on-link. L-.

;

valid time – 0;

preffered time – 0;

no-onlink – ;

no-autoconfig – .

CONFIG-GI

CONFIG-TE

CONFIG-SUBIF

CONFIG-QINQ-IF

CONFIG-LOOPBACK
CONFIG-PORT-CHANNEL
CONFIG-BRIDGE

```
esr(config)# ipv6 nd prefix
```

ipv6 nd ra hop-limit

hop-limit SLAAC- .
(no) .

```
ipv6 nd ra hop-limit <HOP-LIMIT>  
no ipv6 nd ra hop-limit
```

<HOP-LIMIT> – [0..255].

64

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CONFIG-GI
CONFIG-TE
CONFIG-SUBIF
CONFIG-QINQ-IF
CONFIG-LOOPBACK
CONFIG-PORT-CHANNEL
CONFIG-BRIDGE

```
esr(config)# ipv6 nd ra hop-limit 128
```

ipv6 nd ra lifetime

lifetime SLAAC- .
(no) .

```
ipv6 nd ra lifetime <TIME>  
no ipv6 nd ra lifetime
```

<TIME> – , [0..9000].

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CONFIG-GI

CONFIG-TE

CONFIG-SUBIF

CONFIG-QINQ-IF

CONFIG-LOOPBACK

CONFIG-PORT-CHANNEL

CONFIG-BRIDGE

```
esr(config)# ipv6 nd ra lifetime 120
```

ipv6 nd ra max-interval

SLAAC- .

(no) .

```
ipv6 nd ra max-interval <TIME>
```

```
no ipv6 nd ra max-interval
```

<TIME> – SLAAC-, [4..1800].

600

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CONFIG-GI

CONFIG-TE

CONFIG-SUBIF

CONFIG-QINQ-IF

CONFIG-LOOPBACK

CONFIG-PORT-CHANNEL

CONFIG-BRIDGE

```
esr(config)# ipv6 nd ra max-interval 1200
```

ipv6 nd ra min-interval

SLAAC- .

(no) .

```
ipv6 nd ra min-interval <TIME>
```

```
no ipv6 nd ra min-interval
```

<TIME> – SLAAC-, [3..1350].

200

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CONFIG-GI

CONFIG-TE

CONFIG-SUBIF

CONFIG-QINQ-IF

CONFIG-LOOPBACK

CONFIG-PORT-CHANNEL

CONFIG-BRIDGE

```
esr(config)# ipv6 nd ra min-interval 30
```

ipv6 nd router-preference

.

(no) .

```
ipv6 nd router-preference <ACTION>
```

```
no ipv6 nd router-preference
```

<ACTION> – :

- low;
- medium;
- high.

medium

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CONFIG-GI
CONFIG-TE
CONFIG-SUBIF
CONFIG-QINQ-IF
CONFIG-LOOPBACK
CONFIG-PORT-CHANNEL
CONFIG-BRIDGE

```
esr(config)# ipv6 nd router-preference low
```

ipv6 redirects

ICMP IPv6- IPv6-
(no) ICMP- IPv6- IPv6-.

[no] ipv6 redirects

.

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ICMP- IP- IP-.

CONFIG-GI
CONFIG-TE
CONFIG-SUBIF
CONFIG-QINQ-IF
CONFIG-PORT-CHANNEL
CONFIG-BRIDGE
CONFIG-LOOPBACK

```
esr(config-if-gi)# no ipv6 redirects
```

ipv6 route source-route

ipv6 source-route.
(no) ipv6 source-route .


```
[no] ipv6 route source-route
```

.

.

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CONFIG

```
esr(config)# ipv6 route source-route
```

ipv6 unreachable

IPv6 ICMP- .

(no) IPv6 ICMP- .

```
[no] ipv6 unreachable
```

.

IPv6 ICMP- .

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CONFIG-GI

CONFIG-TE

CONFIG-SUBIF

CONFIG-QINQ-IF

CONFIG-PORT-CHANNEL

CONFIG-BRIDGE

CONFIG-LOOPBACK

```
esr(config-if-gi)# no ipv6 unreachable
```

show ipv6 interfaces

IPv6-.

```
show ipv6 interfaces { { <IF> | <TUN> | ipv6-address <IPV6-ADDR> } | vrf <VRF> [ ipv6-address <IPV6-ADDR> ] }
```

```
<VRF>- VRF, 31. IPv6- VRF;
<IF>- , , ;
<TUN>- , , ;
<IPV6-ADDR>- IPv6-, X:X:X:X::X/EE, X [0..FFFF] EE [1..128]. IPv6- c IPv6-.
. , IPv6-, .
, IPv6 DHCP, DHCP- IPv6-.
```

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ROOT

esr# show ipv6 interfaces

IPv6 address	Interface	Type
fc00::2/120	gil/0/5	static
fe80::aaf9:4bff:feaa:45/64	gil/0/5	static

esr# show ip interfaces gigabitethernet 1/0/16

IP address	Interface	Type
16.0.0.2/24	gil/0/16	DHCP

DHCP Client settings:

DHCP Server: N/A

Lease time(dd:hh:mm): 00:02:00

Reboot time: 10 seconds

Retry time: 300 seconds

Timeout: 60 seconds

Select timeout: 0 seconds

Vendor class ID: N/A

Ignore options:

router

Latest lease contents:

Lease time(dd:hh:mm): 00:02:00

DHCP message type: DHCPACK

Renew at: Wednesday2015/02/25 12:22:24 2015/02/25 12:22:24

Rebind at: Wednesday2015/02/25 13:14:09 2015/02/25 13:14:09

Expires at: Wednesday2015/02/25 13:29:09 2015/02/25 13:29:09