

(BRAS)



- `aaa das-profile`
- `aaa services-radius-profile`
- `aaa sessions-radius-profile`
- `backup traffic-processing transparent`
- `bypass-traffic-acl`
- `class-map`
- `clear subscriber-control sessions`
- `default-action`
- `default-service`
- `description`
- `dhcp-option-82-include accept-time`
- `dhcp-option-82-include enable`
- `dhcp-option-82-include lease-time`
- `dhcp-option-82-include size`
- `enable`
- `filter-action`
- `filter-name`
- `ip proxy http listen-ports`
- `ip proxy https listen-ports`
- `ip proxy source-address`
- `location`
- `nas-interface`
- `nas-ip-address`
- `quota-expired-reauth`
- `service-subscriber-control`
- `session accounting`
- `session ip-authentication`
- `session l2-roaming disable`
- `session l2-roaming realtime-accounting`
- `session mac-authentication`
- `session unknown-mac-address`
- `session-timeout`
- `show subscriber-control configuration`
- `show subscriber-control radius-servers`
- `show subscriber-control services count`
- `show subscriber-control services counters`
- `show subscriber-control services status`
- `show subscriber-control sessions count`
- `show subscriber-control sessions counters`
- `show subscriber-control sessions status`
- `subscriber-control`
- `subscriber-control application-filter`
- `subscriber-control apps-server-url`
- `subscriber-control filters-server-url`
- `subscriber-control peer-address`
- `subscriber-control thresholds sessions-number`
- `subscriber-control unused-filters-remove-delay`
- `thresholds sessions-number`
- `vrrp-group`

aaa das-profile

(DAS), CoA PCRF , CaptivePortal.

(no) (DAS).

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

`<NAME>` – (DAS), 31 .

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# aaa das-profile profile1
```

aaa services-radius-profile

RADIUS-, . , «aaa sessions-radius-profile».

(no) RADIUS-.

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

<NAME> – RADIUS-, 31.

15

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# aaa services-radius-profile profile1
```

aaa sessions-radius-profile

RADIUS-, .

(no) RADIUS-.

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

<NAME> – RADIUS-, 31.

15

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# aaa sessions-radius-profile profile1
```

backup traffic-processing transparent

backup BRAS.

(no) backup BRAS.

```
[no] backup traffic-processing transparent
```

.

15

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# backup traffic-processing transparent
```

bypass-traffic-acl

(DHCP, DNS ..) .

(no) .

```
bypass-traffic-acl <NAME>
```

```
no bypass-traffic-acl
```

<NAME> - ACL, 31 .

15

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# bypass-traffic-acl LANs
```

class-map

QoS- . QoS- .

(no) .

```
[no] class-map <NAME>
```

<NAME> - , 31 .

CONFIG-SUBSCRIBER-DEFAULT-SERVICE

```
esr(config-subscriber-default-service)# class-map LAN
```

clear subscriber-control sessions

```
clear subscriber-control sessions [ vrf <VRF> ] [ username <USER-NAME> ] [ session-id <SESSION-ID> ]
```

<VRF> – VRF, 31 . VRF;

<USER-NAME> – , 230 ;

<SESSION-ID> – , [1..18446744073709551615].

ROOT

```
esr# clear subscriber-control sessions
```

default-action

, HTTP/HTTPS , URL (HTTP Host HTTPS), URL «filter-name» (. [filter-name](#)).

(no) .

```
default-action <ACT>
```

```
no default-action
```

<ACT> – :

- permit – ;
- deny – ;
- redirect <URL> – URL, 255 .

CONFIG-SUBSCRIBER-DEFAULT-SERVICE

```
esr(config-subscriber-default-service)# default-action redirect http://192.162.1.2/cp
```

default-service

. . .

default-service

.

15

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# default-service
```

description

.

(no) .

description <DESCRIPTION>

no description

<DESCRIPTION> – wan, 255 .

10

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# description "Wi-Fi BRAS"
```

dhcp-option-82-include accept-time

, .

(no) .

[no] dhcp-option-82-include accept-time <SEC>

<SEC> - , [10..3600].

10

15

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# dhcp-option-82-include accept-time 30<>>>>>>>>>>>>>>>>
```

```
dhcp-option-82-include enable
```

optin 82 DHCP.

(no) optin 82 DHCP.

```
[no] enable
```

•

15

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# enable
```

```
dhcp-option-82-include lease-time
```

, 82 .

(no) .

```
[no] dhcp-option-82-include lease-time <SEC>
```

<SEC> – , [60..86400].

3600

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# dhcp-option-82-include lease-time 7200
```

dhcp-option-82-include size

option 82.

(no) .

[no] dhcp-option-82-include size <SIZE>

<SIZE> – option 82 [100..100000].

100 ESR-1x

1000 ESR-20/100/200

10000 ESR-1000/1200/1510/1511

50000 ESR-1700/3100

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# dhcp-option-82-include size 25000
```

enable

.

(no) .

[no] enable

.

.

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# enable
```

filter-action

, HTTP/HTTPS, URL (HTTP Host HTTPS), URL «filter-name» (. [filter-name](#)).

(no) .

```
filter-action <ACT>
```

```
no filter-action
```

<ACT> – :

- permit – ;
- deny – ;
- redirect <URL> – URL, 255 .

15

CONFIG-SUBSCRIBER-DEFAULT-SERVICE

```
esr(config-subscriber-default-service)# filter-action redirect http://192.162.1.2/forbidden
```

filter-name

URL, HTTP/HTTPS- . URL, (. [subscriber-control application-filter](#)).

(no) .

```
filter-name { local <LOCAL-NAME> | remote <REMOTE-NAME> }
```

```
no filter-name
```

<LOCAL-NAME> – URL, 31 ;

<REMOTE-NAME> – URL , 31 .

15

CONFIG-SUBSCRIBER-DEFAULT-SERVICE


```
esr(config-subscriber-default-service)# filter-name local BLACK_LIST
```

ip proxy http listen-ports

TCP- HTTP Proxy- .

(no) .

```
ip proxy http listen-ports <NAME>
```

```
no ip proxy http listen-ports
```

<NAME>- TCP/UDP-, 31 .

80, 8080

15

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# ip proxy http listen-ports HTTP_PORTS
```

ip proxy https listen-ports

TCP- HTTPS Proxy- .

(no) .

```
ip proxy https listen-ports <NAME>
```

```
no ip proxy https listen-ports
```

<NAME>- TCP/UDP-, 31 .

443, 8443

15

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# ip proxy https listen-ports HTTPS_PORTS
```

ip proxy source-address

IP- , IP- Proxy- HTTP/HTTPS .

(no) IP- .

```
ip proxy source-address <ADDR>
```

```
no ip proxy source-address
```

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

IP- , .

15

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# ip proxy source-address 10.100.100.2
```

location

. HTTP- CaptivePortal, RADIUS Netflow .

(no) .

```
location <ID>
```

```
no location
```

<ID> – , 220 .

.

10

CONFIG-GI

CONFIG-TE

CONFIG-SUBIF

CONFIG-QINQ-IF

CONFIG-PORT-CHANNEL

CONFIG-BRIDGE

CONFIG-IP4/IP4

CONFIG-GRE

CONFIG-L2TPV3

```
esr(config-if-gi)# location "Guest SSID"
```

nas-interface

, IP- IP- RADIUS .

(no) IP- .

```
nas-interface {<IF> | <TUN>}
```

```
no nas-interface
```

<IF> – , , ;

<TUN> – , , .

.

15

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# nas-interface gi 1/0/1
```

nas-ip-address

IP- , IP- RADIUS .

(no) IP- .

```
nas-ip-address <ADDR>
```

```
no nas-ip-address
```

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

10

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# nas-ip-address 10.100.100.2
```

quota-expired-reauth

no quota-expired-reauth

(no) .

```
[no] quota-expired-reauth
```

.

.

15

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# quota-expired-reauth
```

service-subscriber-control

no service-subscriber-control { any | object-group <NAME> } IP-

(no) .

```
service-subscriber-control { any | object-group <NAME> }
```

```
no service-subscriber-control
```

<NAME> – IP-, 31 .

15

CONFIG-GI

CONFIG-TE

CONFIG-SUBIF

CONFIG-QINQ-IF

CONFIG-PORT-CHANNEL

CONFIG-BRIDGE

CONFIG-IP4IP4

CONFIG-GRE

```
esr(config-if-gi)# service-subscriber-control object-group LAN
```

session accounting

RADIUS-accounting.

(no) .

```
session accounting { all | auth-only }
```

all – ;

auth-only – .

all

15

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# session accounting all
```

session ip-authentication

IP-.

(no) .

```
[no] session IP-authentication
```

.

.

15

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# session ip-authentication
```

session l2-roaming disable

L2- BRAS. L2 .

(no) L2 BRAS.

[no] session l2-roaming disable

.

L2 BRAS.

15

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# session l2-roaming disable
```

session l2-roaming realtime-accounting

RADIUS L2 BRAS, .

(no) .

[no] session l2-roaming realtime-accounting

.

RADIUS- L2- Interim-Update.

15

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# session l2-roaming realtime-accounting
```

session mac-authentication

MAC-.

(no) .

[no] session mac-authentication

.

15

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# session mac-authentication
```

session unknown-mac-address

, MAC- . MAC- SYSLOG.

(no) .

[no] session unknown-mac-address filtering

.

MAC- .

15

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# session unknown-mac-address
```

session-timeout

, , , .

(no) .

session-timeout <SEC>

no session-timeout

<SEC> – , [120..3600].

120

15

CONFIG-SUBSCRIBER-DEFAULT-SERVICE

```
esr(config-subscriber-default-service)# session-timeout 155
```

show subscriber-control configuration

```
show subscriber-control configuration [ vrf <VRF> ]
```

<VRF>- VRF, 31.

1

ROOT

```
esr# show subscriber-control configuration
State:                Enabled
Description:          --
NAS IP address:       192.168.107.201
Sessions radius profile:  RADIUS
Services radius profile:  --
DAS profile:          bras2
Quota expired reauth: Disabled
Default service:
  Class map:          list1
  Filter name:        defaultserv
  Filter type:        local
  Filter action:      permit
  Default action:     redirect
  Default redirect URL: http://192.168.107.213:8080/eltex_portal/
```

show subscriber-control radius-servers

RADIUS-.

```
show subscriber-control radius-servers [ vrf <VRF> ]
```

<VRF>- VRF, 31. RADIUS- VRF.

1

ROOT

```
esr# show subscriber-control radius-servers
```

| IP address | Port | VRF | Usage | Connections count | Dead interval | Dead time |
|--------------|-------|-------|---------------|-------------------|---------------|-----------|
| ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 172.16.0.134 | 31813 | -- | services acct | 0 | 10 | -- |
| 172.16.0.134 | 31812 | -- | services auth | 0 | 10 | -- |
| 172.16.0.135 | 31813 | -- | sessions acct | 0 | 10 | -- |
| 172.16.0.135 | 31812 | -- | sessions auth | 0 | 10 | -- |

show subscriber-control services count

show subscriber-control services count [{ vrf <VRF> | service <SERVICE-NAME> }]

<VRF>- VRF, 31. VRF.

<SERVICE-NAME>- , 220 .

1

ROOT

```
esr# show subscriber-control services count
```

| Service | Active | Not active |
|----------|--------|------------|
| ----- | ----- | ----- |
| INTERNET | 17 | 0 |
| WELCOME | 0 | 2 |

show subscriber-control services counters

show subscriber-control services counters session-id <SESSION-ID> [vrf <VRF>] [service-id <SERVICE-ID>] [service <SERVICE-NAME>]

counters - ;

<VRF>- VRF, 31. VRF.

<SESSION-ID>- , [1.. 18446744073709551615].

<SERVICE-ID>- , [1.. 18446744073709551615].

<SERVICE-NAME>- , 220 .

1

ROOT

```
esr# show subscriber-control services status counters session-id 5116089176692896081
Service id      Service name      Recv packets      Recv bytes      Send packets      Send bytes
-----
5152117973711859021  A INTERNET      2018              1615309         1761              281017
```

show subscriber-control services status

```
show subscriber-control services status [ session-id <SESSION-ID> ] [ { service-id <SERVICE-ID> | service
<SERVICE-NAME> } [ vrf <VRF> ]
```

status - ;

<VRF> - VRF, 31. VRF.

<SESSION-ID> - , [1.. 18446744073709551615].

<SERVICE-ID> - , [1.. 18446744073709551615].

<SERVICE-NAME> - , 220.

1

ROOT

```
esr# show subscriber-control services status
Service id      Session id      Service name      User name      Quota volume      Quota time
-----
2522015791      2161727821      INTERNET5         79001110011    --                --
```

show subscriber-control sessions count

```
show subscriber-control sessions count [ vrf <VRF> ]
```

<VRF> - VRF, 31. VRF;

1

ROOT

```
esr# show subscriber-control sessions count
All:          18
Authenticated: 17
Not authenticated: 1
```

show subscriber-control sessions counters

.

show subscriber-control sessions counters { session-id <SESSION-ID> | username <SERVICE-NAME> } [vrf <VRF>]

status - ;
counters - ;
<VRF> - VRF, 31 . VRF;
<SESSION-ID> - , [1.. 18446744073709551615];
<USER-NAME> - , 230 .

1

ROOT

```
esr# show subscriber-control sessions counters session-id 5116089176692896081
User name      Recv packets  Recv bytes  Send packets  Send bytes
-----
79231552525    2198           1697762     1984          313452
```

show subscriber-control sessions status

.

show subscriber-control sessions status [{ session-id <SESSION-ID> | username <SERVICE-NAME> }] [vrf <VRF>]

<VRF> - VRF, 31 . VRF;
<SESSION-ID> - , [1.. 18446744073709551615];
<USER-NAME> - , 230 .

1

ROOT

```

esr# show subscriber-control sessions status
Session id      User name      IP address      MAC address      Interface      Domain
-----
2161727821      79001110011    192.168.244.12  c4:12:f5:d4:af:70  bridge 13      root
esr# show subscriber-control sessions counters session-id 2161727821
User name      Recv packets      Recv bytes      Send packets      Send bytes
-----
79001110011    243                87056           294               35961

```

subscriber-control

.
(no) .

[no] subscriber-control [vrf <VRF>]

<VRF>- VRF, 31, .

15

CONFIG

```

esr(config)# subscriber-control

```

subscriber-control application-filter

.
(no) .

subscriber-control application-filter <NAME>
no subscriber-control application-filter

<NAME>- , 31.

15

- CONFIG-GI
- CONFIG-TE
- CONFIG-SUBIF
- CONFIG-QINQ-IF

CONFIG-PORT-CHANNEL

CONFIG-BRIDGE

CONFIG-IP4IP4

CONFIG-GRE

CONFIG-L2TPV3

```
esr(config-if-gi)# subscriber-control application-filter LIST
```

subscriber-control apps-server-url

URL-, . . .

(no) URL-.

```
subscriber-control apps-server-url <URL>
```

```
no subscriber-control apps-server-url
```

<URL>- , 8 255 .

.

15

CONFIG

```
esr(config)# subscriber-control apps-server-url "http://192.168.1.1/files/"
```

subscriber-control filters-server-url

, URL HTTP/HTTPS-. . .

(no) URL-.

```
subscriber-control filters-server-url <URL>
```

```
no subscriber-control filters-server-url
```

<URL>- , 255 .

.

15

CONFIG

```
esr(config)# subscriber-control filters-server-url "http://192.168.1.1/files/"
```

subscriber-control peer-address

IP- , option 82.

(no) IP- .

```
subscriber-control peer-address <ADDR>
```

```
no subscriber-control peer-address
```

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

15

CONFIG

```
esr(config)# subscriber-control peer-address 10.24.80.100
```

subscriber-control thresholds sessions-number

BRAS snmp-trap eltexBrasSessionsNumberHigh eltexBrasSessionsNumberHighOk.

(no) .

```
subscriber-control thresholds sessions-number { high <TH-HIGH> | low <TH-LOW> }
```

```
no subscriber-control thresholds sessions-number { high | low }
```

<TH-HIGH> – BRAS snmp-trap eltexBrasSessionsNumberHigh ;

<TH-LOW> – BRAS snmp-trap eltexBrasSessionsNumberHighOk.

ESR-1700 <TH-HIGH> – 47000, <TH-LOW> – 46000

ESR-1000/1200/1500/1511/3100 <TH-HIGH> – 9000, <TH-LOW> – 8500

ESR-100/200 <TH-HIGH> – 900, <TH-LOW> – 850

CONFIG

```
esr(config)# subscriber-control thresholds sessions-number high 8000
```

subscriber-control unused-filters-remove-delay

, URL.

(no) .

```
subscriber-control unused-filters-remove-delay <DELAY>
```

```
no subscriber-control unused-filters-remove-delay
```

<DELAY> – , [10800..86400].

10800

15

CONFIG

```
esr(config)# subscriber-control unused-filters-remove-delay 40000
```

thresholds sessions-number

BRAS snmp-trapeltexBrasSessionsNumberHigh eltexBrasSessionsNumberHighOk.

(no) .

```
thresholds sessions-number { high <TH-HIGH> | low <TH-LOW> }
no thresholds sessions-number { high | low }
```

<TH-HIGH> – BRAS snmp-trap eltexBrasSessionsNumberHigh;

<TH-LOW> – BRAS snmp-trapeltexBrasSessionsNumberHighOk.

ESR-1700 <TH-HIGH>–47000, <TH-LOW> –46000

ESR-1000/1200/1500/1511/3100 <TH-HIGH>–9000, <TH-LOW> – 8500

ESR-20/21/100/200 <TH-HIGH>–900, <TH-LOW> –850

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# thresholds sessions-number high 8000
```

vrrp-group

VRRP-, (/) . VRRP BACKUP .

(no) VRRP.

```
vrrp-group <GRID>
```

```
no vrrp-group
```

<GRID> – VRRP-, [1..32].

CONFIG-SUBSCRIBER-CONTROL

```
esr(config-subscriber-control)# vrrp-group 10
```