(BRAS)

⚠ .

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- aaa services-radius-profile
- aaa sessions-radius-profile
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- bypass-traffic-acl
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- subscriber-control
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- 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 .

15

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].

10

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 .

15

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

15

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

15

CONFIG-SUBSCRIBER-CONTROL

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

enable

.

(no) .

```
[no] enable
```

.

.

15

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-IP4IP4

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) .

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

.

.

15

CONFIG-SUBSCRIBER-CONTROL

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

service-subscriber-control

. «any» , 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
                                                         (Bytes)         (Seconds)
------------  ------------  --------------  -----------  --------------  --------------
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

15

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

15

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].

15

CONFIG-SUBSCRIBER-CONTROL

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