v1.19_ BRAS

-
- URL
  - welcome
  - white_list
-
  - limit2h1Gb
  - blocking
- PCRF
  - limit
-
  - limitTP
- CheckCronBrasVerticle
-
-

: 2 1 , , 7:00 , . **https://eltex-co.ru/**, HTTP/HTTPS .

PCRF. . , , .

:

- , ;
- -, quartz cron .

again, , . .

SoftWLC BRAS .

:

SoftWLC 1.13
PCRF
ESR 1.6.2

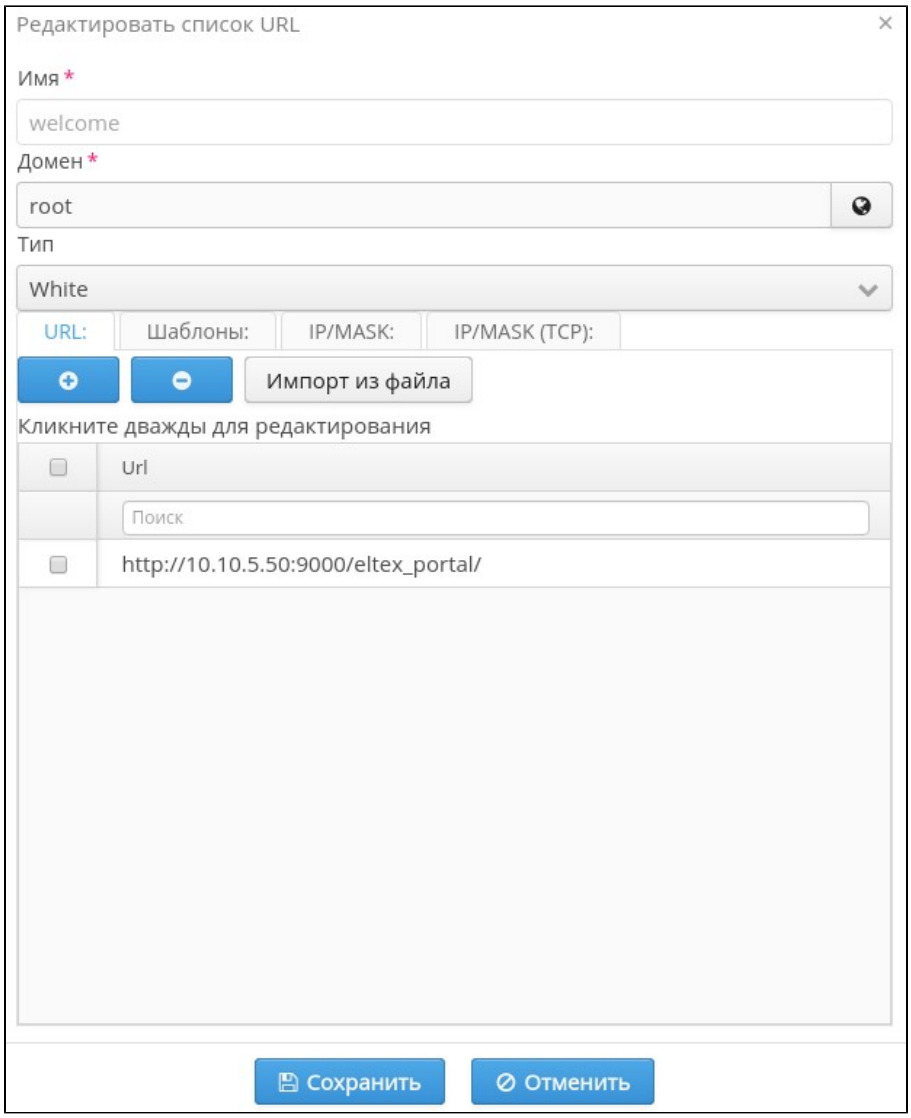
URL

welcome white_list. welcome , SoftWLC BRAS.

PCRF URL

welcome

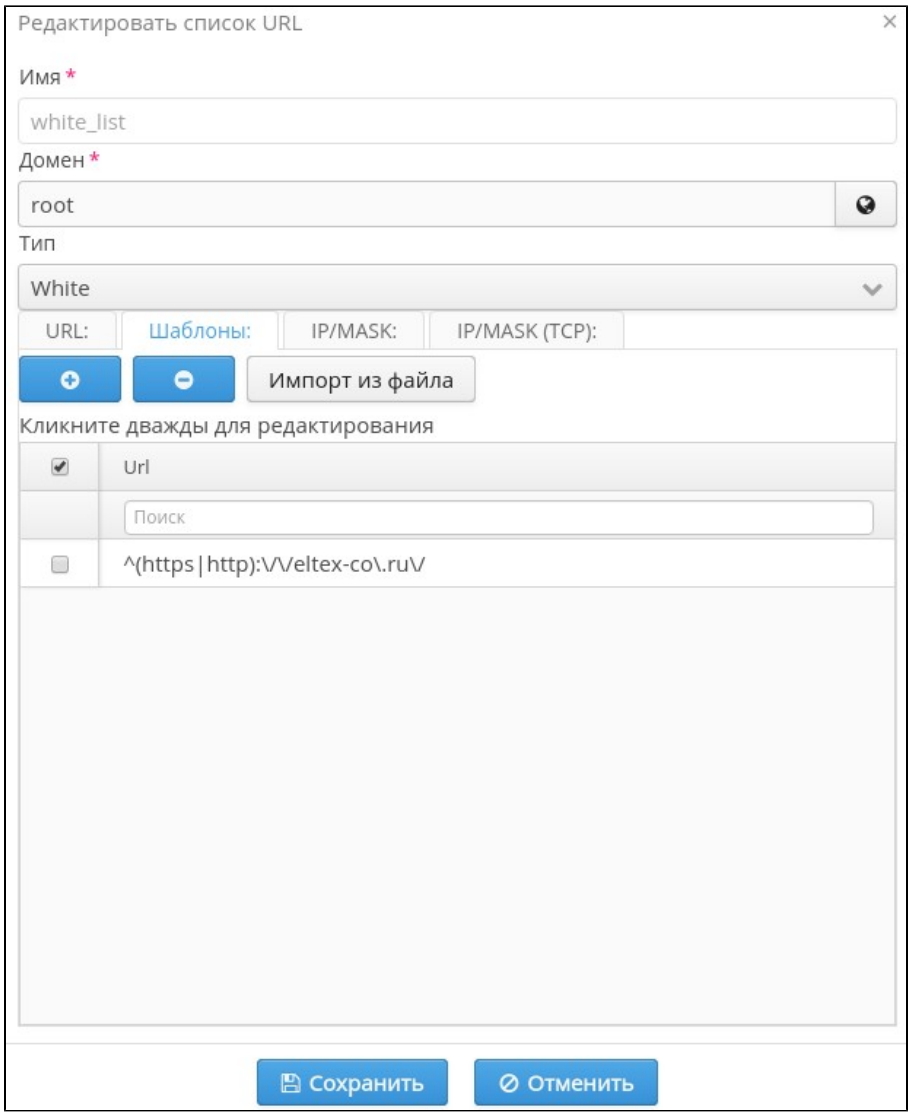
```
http://10.10.5.50:9000/eltex_portal/
```



white_list

,

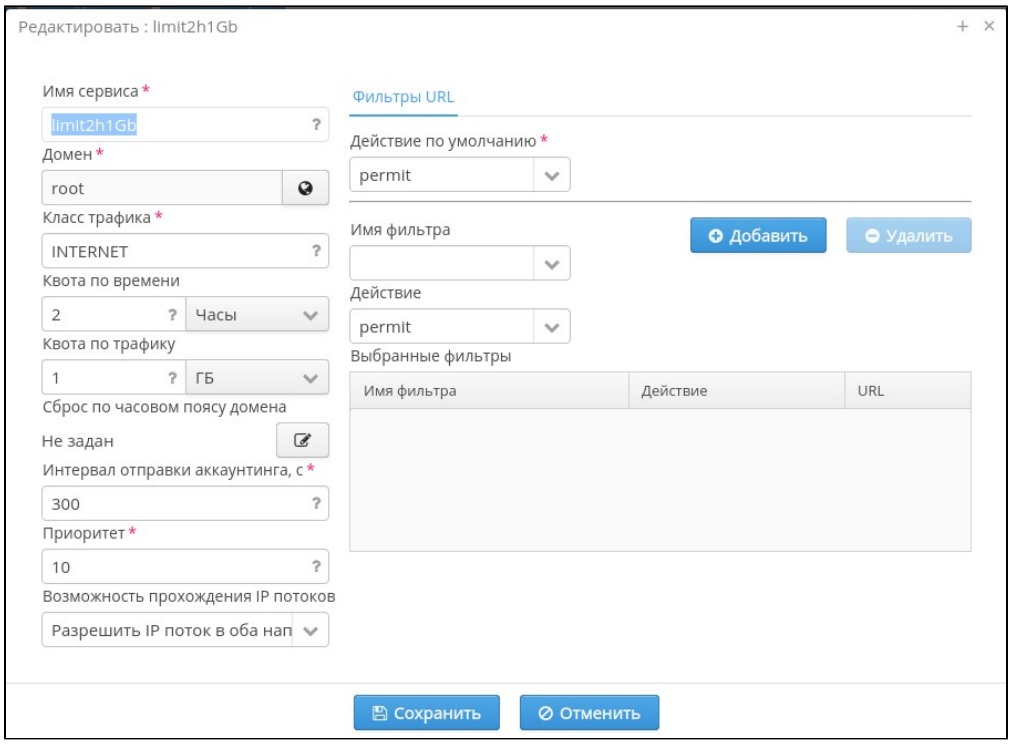
```
^(https|http):\/\/eltex-co\.ru\/
```



PCRF

limit2h1Gb

.



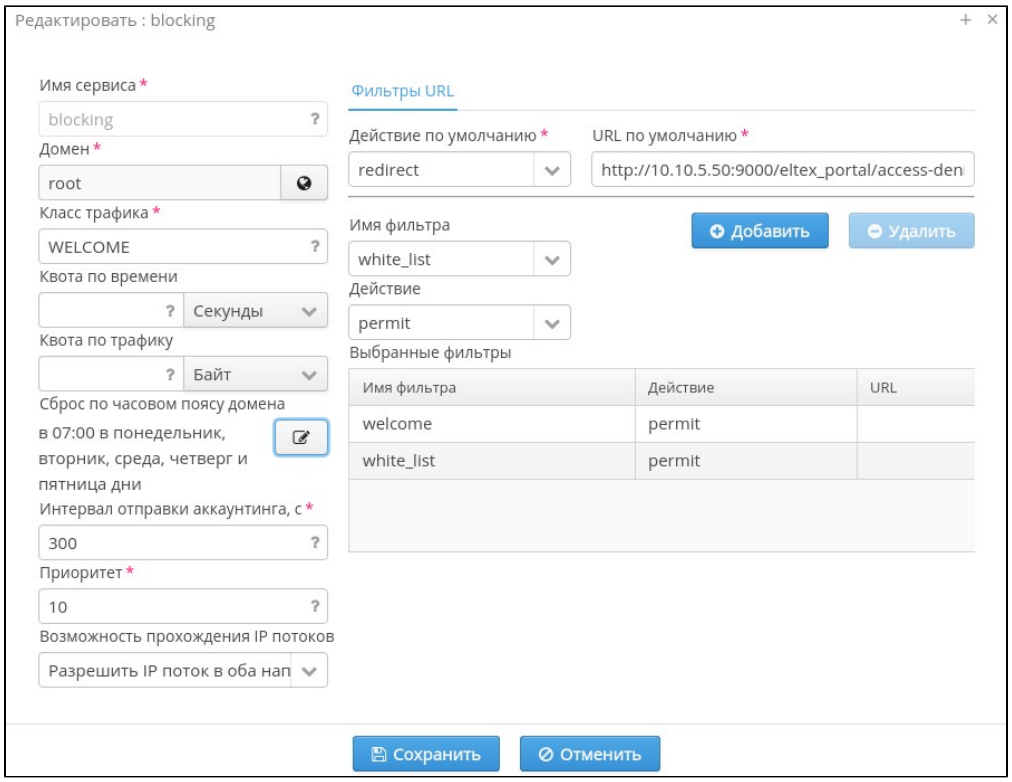
- – INTERNET, ;

```
ip access-list extended INTERNET
  rule 10
    action permit
    enable
  exit
exit
```

- – 2 , ;
- – 1 ;
- – 300 ;
- – 10, ;
- - permint

blocking

. , HTTP/HTTPS " ", **https://eltex-co.ru/** HTTP/HTTPS .



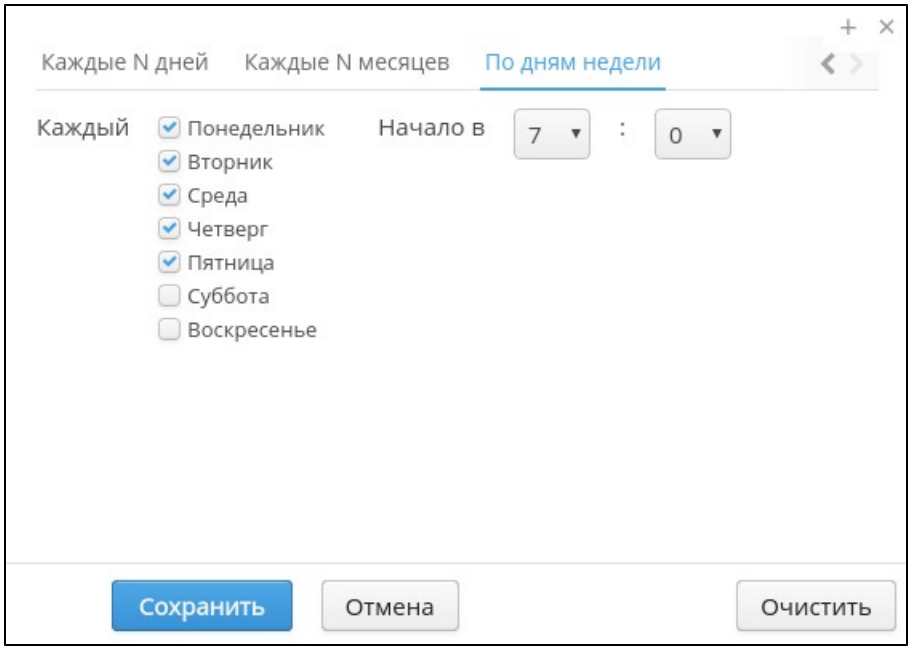
- – WELCOME, BRAS

```
ip access-list extended WELCOME
  rule 1
    action permit
    match protocol tcp
    match destination-port 443
    enable
  exit
  rule 2
    action permit
    match protocol tcp
    match destination-port 8443
    enable
  exit
  rule 3
    action permit
    match protocol tcp
    match destination-port 80
    enable
  exit
  rule 4
    action permit
    match protocol tcp
    match destination-port 8080
    enable
  exit
  rule 5
    action permit
    match protocol tcp
    match destination-port 9000
    enable
  exit
exit
```

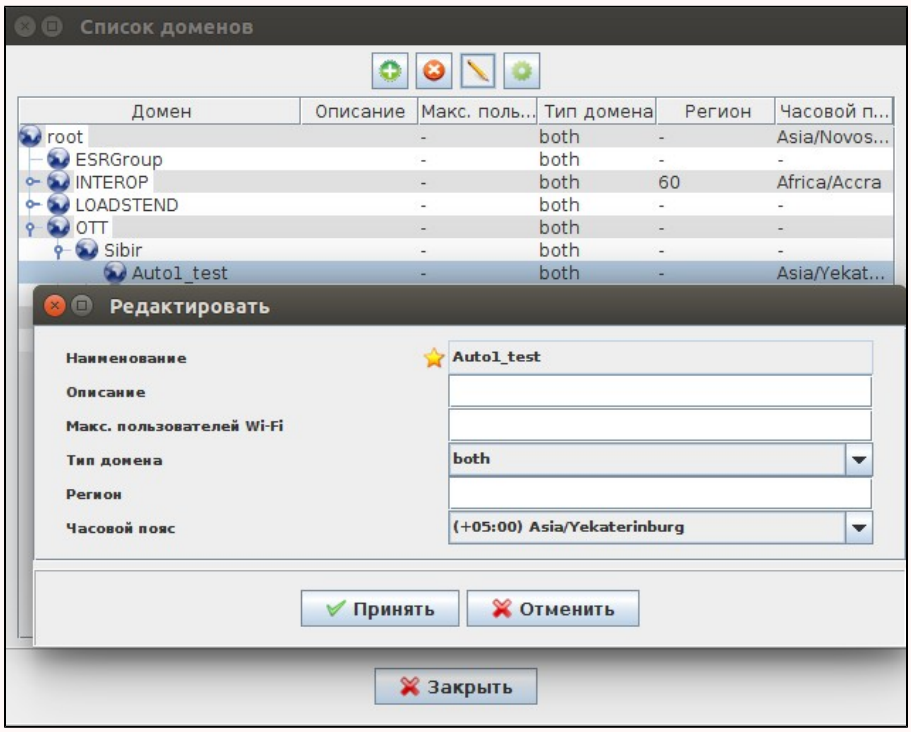
- – 300 ;
- – 10, ;
- – redirect
- URL – http://<ip address>:9000/eltex_portal/access-denied.jsp, " ",

URL permit URL welcome, " ".

URL permit URL white_list, https://eltex-co.ru



timezone , EMS, timezone , timezone UTC ± 0:00. Timezone EMS

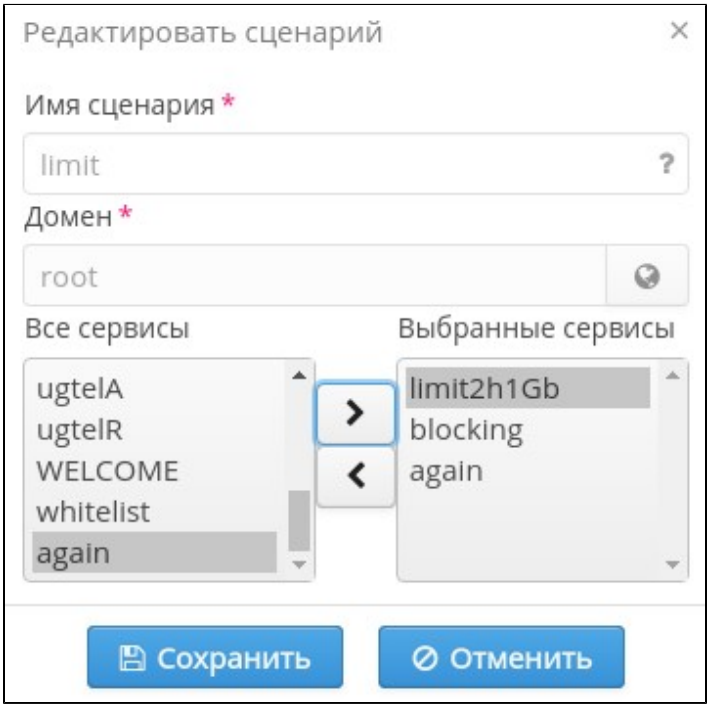


PCRF

PCRF

limit

,

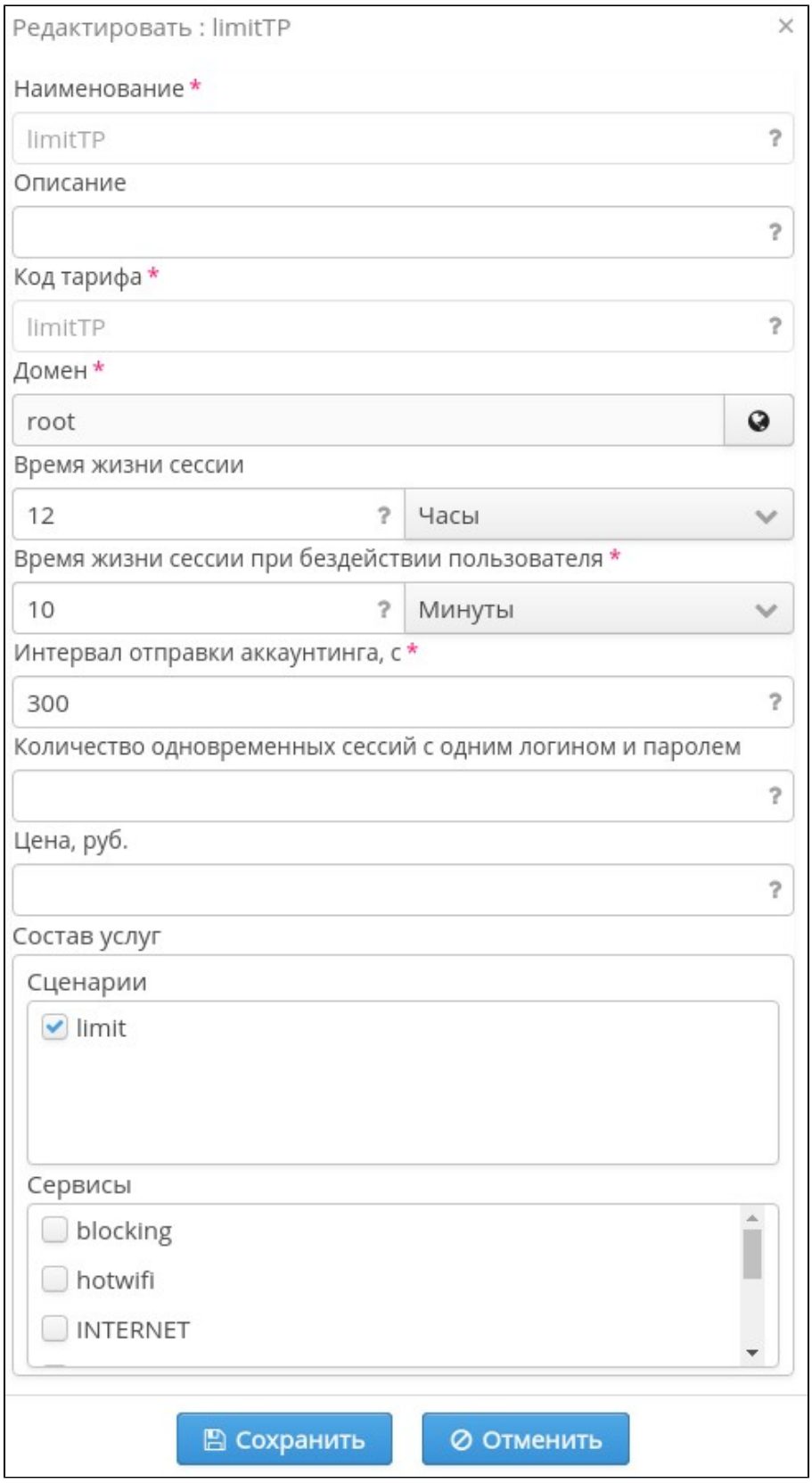


(limit2h1Gb) , (blocking), . .

, PCRF/BRAS

limitTP

limit



- – limitTP;
- – limitTP;
- – root;
- – BRAS. , , mac-auth;
- – , .
- – 300 c;

- – .

. L2 PCRF L2, L3 EMS (SSID).

CheckCronBrasVerticle

CheckCronBrasVerticle PCRF bras.cron.update.interval

```
  "bras.cron.update.interval": {
    "interval" : 1,
    "unit": "hours"
  },
```

1 , PCRF, 1800 :

```
  "bras.cron.update.interval": {
    "interval" : 1800,
    "unit": "Seconds"
  },
```

, mongo :

```
> use pcrf
switched to db pcrf
> db.scripts.find({"user_name" : "79139001234"}).pretty();
{
        "_id" : "5d0c9359cc4e0c72ceb395ff",
        "domain" : "Auto1_test.Sibir.OTT.root",
        "title" : "limit",
        "user_name" : "79139001234",
        "step" : 0
}
> db.service.find({"user_name" : "79139001234"}).pretty();
{
        "_id" : "5d0c9359cc4e0c72ceb39600",
        "user_domain" : "Auto1_test.Sibir.OTT.root",
        "user_name" : "79139001234",
        "service_list" : {
                "limit2h1Gb" : {
                        "service_domain" : "root",
                        "quota_time" : NumberLong(7200),
                        "quota_volume" : NumberLong(1073741824)
                },
                "blocking" : {
                        "service_domain" : "root",
                        "quota_cron" : "06/24/2019 - 07:00:00 YEKT"
                }
        }
}
```

, limit2h1Gb blocking. :

- , PCRF CoA (command=services-reauth) BRAS , BRAS PCRF, PCRF . mongo step scripts limit2h1Gb.

```
> db.scripts.find({"user_name" : "79139001234"}).pretty();
{
        "_id" : "5d0c9359cc4e0c72ceb395ff",
        "domain" : "Auto1_test.Sibir.OTT.root",
        "title" : "limit",
        "user_name" : "79139001234",
        "step" : 1
}
```

- 10 , .. .

PCRF service, , PCRF , PCRF, , .. "again". debug PCRF :

```
==> /var/log/eltex-pcrf/eltex-pcrf-service.log <==
2019-06-21T16:09:16,955 [vert.x-eventloop-thread-2] DEBUG CheckCronBrasVerticle ?.(line:). Current time 2019-06-
21T09:09:16.955Z
2019-06-21T16:09:17,070 [vert.x-eventloop-thread-2] DEBUG CheckCronBrasVerticle ?.(line:). Imagine time 06/21
/2019 - 14:09:00 +0500
2019-06-21T16:09:17,071 [vert.x-eventloop-thread-2] DEBUG CheckCronBrasVerticle ?.(line:). Value {"quota_cron":"
06/21/2019 - 14:09:00 +0500","service_domain":"root"}
2019-06-21T16:09:17,071 [vert.x-eventloop-thread-2] DEBUG CheckCronBrasVerticle ?.(line:). service_name
blocking, cronTime 2019-06-21T14:09+05:00, service_domain root
2019-06-21T16:09:17,071 [vert.x-eventloop-thread-2] DEBUG CheckCronBrasVerticle ?.(line:). Difference 16
2019-06-21T16:09:17,071 [vert.x-eventloop-thread-2] DEBUG CheckCronBrasVerticle ?.(line:). Start to cron
BrasCron(userName=79139001234, userDomain=Auto1_test.Sibir.OTT.root, serviceName=blocking, date=2019-06-21T14:
09+05:00[Asia/Yekaterinburg], serviceDomain=root)
2019-06-21T16:09:17,076 [vert.x-eventloop-thread-1] DEBUG ReinitAllSerPersExcCronStrg ?.(line:). Search
sessions by name = '79139001234' AND domain = 'Auto1_test.Sibir.OTT.root' for all services: []
2019-06-21T16:09:17,076 [vert.x-eventloop-thread-1] DEBUG ReinitAllSerPersExcCronStrg ?.(line:). Try to get
tariff domain for service name=79139001234, domain=Auto1_test.Sibir.OTT.root. Reload from base 25, hashed 41997.
2019-06-21T16:09:17,084 [vert.x-eventloop-thread-2] DEBUG CheckCronBrasVerticle ?.(line:). Successfully all
checked
```

scripts :

```
> db.scripts.find({"user_name" : "79139001234"}).pretty();
{
        "_id" : "5d0c9359cc4e0c72ceb395ff",
        "domain" : "Auto1_test.Sibir.OTT.root",
        "title" : "limit",
        "user_name" : "79139001234",
        "step" : 2
}
```

.

, , .. . , .