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# 6 Filtering rules management interface

# **Universal Locking Rules UI**

## Introduction

Universal locking rules (ULR) UI is designed to manage filtering rules on multiple DPIs simultaneously using a graphical interface.

## Installation

Equipment or virtual machines with the following characteristics are suitable for the subsystem:

- 1. CPU 2.5 GHz, 2-4 cores
- 2. RAM from 8 GB (mainly for sphinx)
- 3. Hard drive (HDD) 50 GB 250 GB
- 4. Cent OS 7+ operating system (we do not recommend to not install minimal, because most of the dependencies will have to be installed manually)
- 5. Network Card (NIC) from 10 Mbps



We recommend Cent OS 7+ operating system. **Do not not install minimal, because most of the dependencies will have to be installed manually.** If you need to install software on Cent OS 6, make sure that supervisor 3+ is installed. If you do not have the package, please contact technical support.

 $\bigcirc$ 

The locking rules management interface is a special section of The VAS Experts DPI Graphical User Management Interface ver.2. The installation is similar to the script of The VAS Experts DPI Graphical User Management Interface ver.2.

## Configuration

## .env Configuration

The subnet configuration is handled with .env file.

```
/var/www/html/dpiui2/backend/.env
```

The file contents:

#Redirect URL for "White list" service ULR WHITE LIST REDIRECT URL=https://google.com #The period after Ulr tasks data is deleted (days) ULR\_QUEUE\_DELETE\_TASKS\_DAYS\_INTERVAL=1 #ASN for IP-exception rules ULR IP EXCLUDE ASN=64401 #The host for blocked resources list deployment. To connect the blocked resources server. ULR BLACK LIST DEPLOY HOST=<IP address or host of global locks web-server> #The port for blocked resources list deployment. To connect the blocked resources server. ULR BLACK LIST DEPLOY PORT=22 #Username for blocked resources list deployment. To connect the blocked resources server. ULR\_BLACK\_LIST\_DEPLOY\_USER=default #Password for blocked resources list deployment. To connect the blocked resources server. ULR BLACK LIST DEPLOY PASS= #To use sudo for blocked resources list deployment. (0 - do not use, 1 use) ULR\_BLACK\_LIST\_DEPLOY\_SUD0=1 #Black lists saving path. ULR\_BLACK\_LIST\_DEPLOY\_PATH=/var/www/html/blacklists/ #Log Detail Level (0 - info, 1 - debug, 2 - tracing). ULR LOAD LOG LEVEL=0

After changing the .env file, you need to run the command

php /var/www/html/dpiui2/backend/artisan queue:restart



These settings can be added to the configuration in the Administrator  $\rightarrow$  DPIUI2 Server Configuration section in the The VAS Experts DPI Graphical User Interface ver.2.

## **Key Installation**

To use the Universal Locking Rules UI, you need to activate the ULR-license in DPIUI2 with a command:

```
dpiui2 ulr_lic --make=1
```

Next:

- 1. Enter license level: standard
- 2. Enter the license completion date in the Y-m-d format (e.g. 2099-12-31)
- 3. Enter the license password.

If the data is correct, a success message will be displayed:

```
dpiui2 ulr_lic --make=1
Enter level:
> standard
Enter expire date in Y-m-d format:
> 2099-12-31
Enter password:
>
stdClass Object
(
   [success] => 1
)
```

## **Roles Management**

In the DPIUI2 interface visit the Administrator  $\rightarrow$  Roles section. Create a new role and set read and write permissions in the ulr\_admin section:

| ut       abivination quest quest       maintain our quest quest       maintain quest quest       maintain quest quest       maintain quest que  |  | 8          | 0        | th Same                   |   |        |        |
|---|--|------------|----------|---------------------------|---|--------|--------|
| Option         Selic         Selic         Image: Normal Selic  |  | cles .     |          | di Propun sectore         |   |        |        |
| ut       initializado, desizión         adivinazión, desizión       Adivinazión, desizión         adivinazión, desizión       Adivinazión, desizión         adivinazión, desizión       Val Cende         usedud       Val Val Cende         usedud       Val Val Cende         usedud       Val  |  |            |          | Code                      | ection  |        |        |
| administrator,dpild?       Administrator,dpild? <td< td=""><td></td><td>Adminuturo</td><td>0</td><td>administrator_roles</td><td>Tales .</td><td>0 ~</td><td>0.00</td></td<>  |  | Adminuturo | 0        | administrator_roles       | Tales .   | 0 ~    | 0.00   |
| wachad       Viki Okad       in         wachad       Viki Okad       in         wole       Webcolet wolfspations       in         wiki       Maximum Challes       in   |  | uri 🚬      | 0        | administrator, send, enor | teed tow  | 0 **   | 0.00   |
| sectet       Veloport exollegations       Image: Im |  | N          |          | administrator, dpix/2     | Administrator DPVut2                            | C 10   | D 100  |
| ali     biniversal binivales     Divisorial binivales     Diviso   |  |            | vanchoud | WG Obed                   | C 90  | □ He   |        |
| Attyreduption     Attivestatisticalistatistatistatistatistatistatistatist   |  |            |          | socket                    | Velsocket notifications                         | 0.99   | D 16   |
| Attive     Attive     Attive     Attive     Attive       Attive     Attive     Attive     Attive     Attive     Attive  |  |            |          | ult.                      | hivenal lock rules                              | 😫 Tes  | 8.94   |
| sk_policings       Mivessal lock noles / Applications & policings       Si Nes   |  |            |          | alt_meb_rates             | alivestal lock rules.) theb.8 IP filter         | 8 744  | 8 ***  |
| sk_usuudes     betwessilleds rules / Addit Mar     10 Yes  |  |            |          | siturbite.rules           | Jaivesual lock rules.) Vahitelius               | 23 Yes | 81 Mar |
| sk_mabules     bitvessatilash neles / 19 & 4.00 cestates       sk_mabules     bitvessatilash neles / 19 & 4.00 cestates       sk_mabules     bitvessatilash neles / 19 & 6.00 cestates       sk_mabules     bitvessatilash neles / 10 cestates  |  |            |          | uk.policinga              | Inivensal lock rules / Applications & policings | 23 Yes | 22 Nov |
| ski, gk, seach     bisivesal lack rules : Tatalase assenh     in res     in res     in res       ski, gk, pac, polities     bisivesal lack rules : Tatalase assenh     in res     in res       ski, gk, pac, polities     bisivesal lack rules : Tatalase assenh     in res     in res       ski, gk, pac, polities     bisivesal lack rules : Tatalase assenh     in res     in res       ski, gk, pac, polities     bisivesal lack rules : Octobranes     in res     in res   |  |            |          | sik_as_roles              | Intivensal lock rules. J AGN filter             | 8 Yes  | B No.  |
| sitkp.jopprofiles Universali lock noles triffin & striffin grofiles 2 New   |  |            |          | sit_excludes              | hivenal lock rules / IP & A3H excludes          | 8 744  | 8.99   |
| alt_dics Universal lock rules : Olicitanales 🛛 Yes 🖾 Yes  |  |            |          | sit, db, search           | aliversal lock rules / turabase search          | B 744  | 8 94   |
|   |  |            |          | uk.isp.ige.profiles       | aliversal lock rules / tSPs & tOVs probles      | 22 Ma  | 8 we   |
| ult, syndram, shafa Universali lock rules / Syndram global state 🗵 Yes  |  |            |          | sk.de                     | Iniversal lock rules / Occionaties              | 23 Wei | 23 No. |
|   |  |            |          | sk_spiam_plate            | Intivensal lock rules./ Spriam-global state     | B Yes  | B No.  |
|   |  |            |          |                           | awful interception / connections                | 0.10   | 0.10   |

Next, go to the Administrator $\rightarrow$  Users section. Create a new user and set him the role that you created earlier.

| Full name *      |   |
|------------------|---|
| user             |   |
| E-mail *         |   |
| user@user.com    |   |
| Phone *          |   |
| +796023          |   |
| Company *        |   |
| vasexperts       |   |
| Position *       |   |
| ulr              |   |
| Role             |   |
| Url              | ~ |
| New password     |   |
| Confirm password |   |
|                  |   |

After the user logs in, he is moved to the locking rules management section.

| LES                             | WEB 8      | IP FIL         | TER             |               |        |              |                    |           |        |  |
|---------------------------------|------------|----------------|-----------------|---------------|--------|--------------|--------------------|-----------|--------|--|
| WER & IP FILTER                 | Web/IP f   | irewall su     | immary.         |               |        |              |                    |           |        |  |
| Check domain<br>Search database | TVPE<br>EN |                | ACTVE           | DIBABLED<br>0 | 13174. |              |                    |           |        |  |
| APPLICATIONS & POLICINGS        | 830        |                | 4               |               | 4      |              |                    |           |        |  |
| ASN FILTER                      | Last ent   | ries in We     | ub/IP register  |               |        |              |                    |           |        |  |
| WHITELIST                       | 0, 14      | ristie search. |                 |               |        |              |                    |           |        |  |
| 1975 & IONIS PROFILES           |            | No.2           | DATE            |               | - T/FE | RESOURCE MAR | RESOURCE INLIGATED | REGULATOR | READON |  |
| DATABASE SEARCH                 | Railind    | 1              | 11:01/2019/07   |               | 521    | and to       | Amita              | 855 1     | 3ez    |  |
| SYSTEM GLOBAL STATE             | Traitini   | 1              | 11.00.001011    |               | 100    | min          | main               | NBG 1     | Terr   |  |
| DICTIONARIES                    | Earlied    | 1              | 11.01.2010617   |               | 05     | and to       | *anits             | REG 1     | Test . |  |
|                                 | Traitini   | 1              | 11.01203011     |               | 25     | min          | main               | 8801      | Terr   |  |
|                                 | Eastind    | 1              | 11:10/2019/0717 |               | cs     | jan          | ymbros             | 850 1     | 347    |  |
|                                 | Institut   | 1              | 11.01201017     |               | 05     | 24.74        | *pasies ar         | 8801      | Terr   |  |
|                                 | Eastind    | 1              | 11.012010617    |               | 523    | 38.00        | 38.8               | 899.1     | 367    |  |
|                                 | Trailing   | 1.0            | DOM: NOT        |               | 804    | 20.00        | *5mm               | 880.1     | Terr   |  |

## **Dictionaries Configuration**

- Category Dictionary
- Regulators Dictionary

These dictionaries are used for creating/editing locking rules.

## **Category Dictionary**

In the Locking Rules management interface go to the Dictionaries  $\rightarrow$  Categories section.

| SPECTRE DPI                                   | DETIONABLES / CATEGORIES             |                |               | ··· (  | D -= |
|---|--------------------------------------|----------------|---------------|--------|------|
| Rules   | CATEGORIES                           |                |               |        |      |
| <ul> <li>NEB &amp; IP FILTER</li> </ul>       |                                      |                |               |        |      |
| APPLICATIONS & POLICINGS                      | Add new item                         |                |               |        |      |
| <ul> <li>ASN FILTER</li> </ul>                | Bort same *                          |                |               |        |      |
| P & ASN EXCLUDES                              |                                      |                |               |        |      |
| <ul> <li>WHITELIST</li> </ul>                 | Public description                   |                |               |        |      |
| <ul> <li>ISPS &amp; IONIS PROFILES</li> </ul> |                                      |                |               |        |      |
| <ul> <li>DATABASE SEARCH</li> </ul>           |                                      |                |               |        |      |
| SYSTEM GLOBAL STATE                           | ADD ITEM                             |                |               |        |      |
| O DICTIONNAILES                               |                                      |                |               |        |      |
| Calegories                                    | <ul> <li>Datatable search</li> </ul> |                |               |        |      |
| Regulators                                    |                                      |                |               |        |      |
|   | TOTAL                                | DATE           | + DESCRIPTION |        |      |
|   | CALIT                                | 00:11 30:00/22 |               |        |      |
|   | LIGPT                                |                | 1 2 20        | INCV 1 | 10 - |
|   | EXPORT                               |                |               |        |      |
|   |                                      |                |               |        |      |

#### Creating

Fill in the form with category name and description and click the "Add" button.

| TEGORIES               |  |
|------------------------|--|
| Add new item           |  |
| Sum Autor * - Category |  |
| Public description     |  |
| ADD ITEM               |  |

Editing

To edit: click on the category editing button in the categories table. In the form, change the name and/or description of the category, then click the "Save" button.

| Category                       |                    |   |               |      |
|--------------------------------|--------------------|---|---------------|------|
| Public description Description | Edit item          | × | Editing form  |      |
|                                | Lien name *        | _ |               |      |
| ADD ITEM                       | Public description |   |               |      |
| 2, Datatabi+ search            |                    |   |               | Edit |
| MARE                           | SAVE ITEM          |   | - DESCRIPTION |      |
|                                |                    |   | Deutoption    |      |

#### Deleting

Click on the delete category button in the categories table. In the pop-up window confirm or cancel the action.

| CATEGORIES          |                |              |                              |
|---------------------|----------------|--------------|------------------------------|
| Add new item        |                |              |                              |
| Public description  |                |              |                              |
| ADD ITEM            |                |              |                              |
| C. Dutatable search |                |              | Delete category a            |
| NAME                | DALE           | + DESCRPTION |                              |
| Cangary             | 08:22 20:06:25 | Deuxiption   |                              |
| CAT III             | 08:11 20:06/22 |              | Delete?                      |
| 1.10/1              | ec c 1         |              | Are you sere? Cancel/Confirm |
| EXPORT              |                |              | GANGEL DELETE                |

**Attention:** Before deleting a category, make sure there are no rules referring to this category!

### **Regulators Dictionary**

In the Locking Rules management interface go to the Dictionaries  $\rightarrow$  Regulators section.

| SPECTREIDPI                          | DCTONARES/REOULIZORS |                    |               | Di v | 🕲 u -  |
|--------------------------------------|----------------------|--------------------|---------------|------|--------|
| NULES<br>• WESSIPPLIER               | REGULATORS           |                    |               |      |        |
| APPLICATIONS & POLICINOS             | Add new Hem          |                    |               |      |        |
| ABN FILTER     IP & ASN EXCLUDES     | test same "          |                    |               |      |        |
| WHITELIST     ISPS & IGWS PROFILES   | Public description   |                    |               |      |        |
| OATABASE SEARCH                      |                      |                    |               |      |        |
| SYSTEM GLOBAL STATE     DICTIONARIES | ADD THM              |                    |               |      |        |
| Categores<br>Regulators              | C, Extender search - |                    |               |      |        |
|                                      | NUME<br>REG 111      | DATE 0011 3010022  | - DESCRIPTION |      |        |
|                                      | LIGPT                | an a <b>1</b> 5 55 |               |      | GW 10. |
|                                      | EXPORT               |                    |               |      |        |

#### Creating

### Fill in the form with regulator name and description and click the "Add" button.

| REGULATORS         |   |  |  |
|--------------------|---|--|--|
| Add new item       | / |  |  |
| Regulator          |   |  |  |
| Public description |   |  |  |
| ADD ITEM           |   |  |  |

#### Editing

To edit: click on the regulator editing button in the regulators table. In the form, change the name and/or description of the regulator, then click the "Save" button.

| dd new item              |                      |     |               |      |
|--------------------------|----------------------|-----|---------------|------|
| lien name *<br>Regulator |                      |     | Editing form  |      |
| Public description       | Edit item            | × 🖍 |               |      |
|                          | Regulator            |     |               |      |
| ADD ITEM                 | - Public description |     |               |      |
| Dalaiside search         |                      |     |               | Edit |
| r.                       | SAVE ITEM            |     | · DESCRIPTION |      |
| lator                    |                      |     | Description   |      |
|                          | 08:11 20/06:22       |     |               |      |

#### Deleting

Click on the delete regulator button in the categories table. In the pop-up window confirm or cancel the action.

| REGULATORS                |                |                    |               |                              |
|---------------------------|----------------|--------------------|---------------|------------------------------|
| Add new item   Agentation |                |                    |               |                              |
| ADD ITEM                  |                |                    |               |                              |
| Q. Datatable search       |                |                    |               | Delete regulator             |
| NAME                      | DATE           |                    | - DESCRIPTION |                              |
| Toplator                  | 08.28 28/08/25 |                    | Description   |                              |
| 880 111                   | ØR:11 29:06:21 |                    |               | Delete?                      |
| 14.061                    |                | ee e <b>†</b> > >> |               | Are you sure? Cancel/Confirm |
| EXPORY                    |                |                    |               | CANCEL DELETE                |

**Attention:** Before deleting a regulator, make sure there are no rules referring to this regulator!

## **IGW Profiles Management**

Change to the section "ISPS & IGWS Profiles"  $\rightarrow$  "IGWs List".

| SPE  | CTRE <b>DPI</b>                 | EPE & RUE PROFILE LASS FOR PROFILE INFO |                   |               |            |         | DN - | (8) sit - |
|------|---------------------------------|---|-------------------|---------------|------------|---------|------|-----------|
| R.L. | ES WED & IP FILTER              | ADD IGW PROFILE WNEW                    |                   |               |            |         |      |           |
|      | APPLICATIONS & POLICINGS        | IGW profile id: 1                       |                   |               |            |         |      |           |
| •    | ASN PILTON                      | 10V profile name *                      |                   |               | Standalone |         |      |           |
| •    | IP & ABV EXCLUDES               |   |                   |               |            |         |      |           |
| •    | WHITELIST                       | Nodes                                   |                   |               |            |         |      |           |
| 9    | ISPS & IGWS PROFILES            | minICPI                                 |                   | 100pii<br>4 * | ADD        |         |      |           |
| ш    | ISPs Int<br>Add new ISP profile |   |                   |               |            |         |      |           |
| ш    |                                 | PLANE                                   | EPI HIPENANE NAME |               |            | INCOME. |      |           |
| 11   | Add new IGW graffie 🦰           |   |                   | Data not      | found      |         |      |           |
| H    | DATABASE SEARCH                 | SAVE CHANGES                            |                   |               |            |         |      |           |
| •    | SYSTEM OLOBAL STATE             |   |                   |               |            |         |      |           |
| •    | DICTION/RE8                     |   |                   |               |            |         |      |           |

## Creating

To create new IGW profile change to the section "ISPS & IGWS Profiles"→"Add new IGW profile".

In the form specify:

- Profile name;
- Operation mode (Standalone/Cluster)

 Nodes for the profile (Node name, DPI from the list of available equipment and number of bridges)

| SPEC | TRE IDPI                 | PE & IGNE PROFILE I ADD ION PROFILE INSV |   |          | Di - | (8) ut - |
|------|--------------------------|--|---|----------|------|----------|
|      | WEB & IP FILTER          | ADD IGW PROFILE WNEW                     |   |          |      |          |
|      | APPLICATIONS & POLICINGS | IGW profile id: 1                        |   |          |      |          |
| •    | ABN FILTER               | - 10V profile turne *                    | Mode *                                      | e .      |      |          |
| ٠    | IP & ARV EXCLUDES        |  |   |          |      |          |
| •    | WHITELIST                | Nodes                                    |   |          |      |          |
| т.   | ISPS & IGWS PROFILES     | Note tank DPI Printform Printform        | та така с с с с с с с с с с с с с с с с с с |          |      |          |
|      | Add new ISP profile      | NAME                                     | DPI HAPDWARE NAME                           | 1812-313 |      |          |
| 1    | Add new 12W profile      |  | Data not found                              |          |      |          |
| +    | DATABASE SEARCH          | SAVE CHANCES                             |   |          |      |          |
|      | SYSTEM OLOBAL STATE      |  |   |          |      |          |
|      | DICTIONARES              |  | IGW addin                                   | g form   |      |          |



### Editing

In the "ISPS & IGWS Profiles"  $\rightarrow$  "IGWs List" section click the button "Edit profile".

| IGWS LIST                        |            |          |                |                       |
|----------------------------------|------------|----------|----------------|-----------------------|
| Select IGW profile from the list |            |          |                |                       |
| Q. Datatable search              |            |          |                | Ø                     |
| NAME                             | MODE       |          | DATE           | -                     |
| 16W1111                          | Standalone |          | 10:16 20:06:19 |                       |
| 1-1 OF 1                         |            | << < 1 > | >>             | Edit profile snow 10- |
| EXPORT                           |            |          |                |                       |

The IGW profile creation/editing form will open. Make the changes you need and click "Save Changes".

#### Deleting

In the "ISPS & IGWS Profiles"  $\rightarrow$  "IGWs List" section click the button "Delete" and confirm/cancel the operation.

| IGWS LIST                        |            |             |                |               |                |
|----------------------------------|------------|-------------|----------------|---------------|----------------|
| Select IGW profile from the list |            |             |                |               |                |
| O, Database search               |            |             |                |               | Delete Ø       |
| NAME                             | MODE       |             | DATE           |               | -              |
| ipsi -                           | Standalone |             | 08:46.20:06/21 |               |                |
| 3090111                          | Standalone |             | 10:36 20:06:19 | Delete?       |                |
| 5-2 OF 2                         |            | ec c t > >> |                | Are you sure? | Cancel/Confirm |
| EXPORT                           |            |             |                | GAN           | CEL DELETE     |

**Attention**: Before deleting a profile, make sure there are no ISP profiles referring to this category!

## Web Server for Global Lists Configuration

## Web-server

1. Prepare a machine with CentOS7+ installed

2. Create a sudo user without password as described in Dpiui2: DPI connection details section

3. Run the script:

```
rpm --import http://vasexperts.ru/centos/RPM-GPG-KEY-vasexperts.ru
rpm -Uvh http://vasexperts.ru/centos/6/x86_64/vasexperts-repo-1-0.noarch.rpm
yum install dpiutils -y
yum install httpd -y
yum install unzip -y
mkdir /var/www/html/blacklists
chmod -R 777 /var/www/html/blacklists
echo "
<VirtualHost *:80>
    DocumentRoot \"/var/www/html/blacklists\"
    <proxy *>
    Order deny,allow
    Allow from all
    </proxy>
</VirtualHost>
" > /etc/httpd/conf.d/bl_lists.conf
firewall-cmd --permanent --add-port=80/tcp
firewall-cmd --reload
```

```
systemctl enable httpd.service
systemctl restart httpd.service
```

4. In dpiui2 configuration specify the web-server access parameters in ULR settings section

5. Specify the path to Custom lock list in the settings of all connected FastDPI servers:

```
# URL dictionary for blocking by HTTP (custom_url_black_list)
custom_url_black_list=http://<IP address of Web-server>/blacklist.dict
# Names dictionary for blocking HTTPS protocol by certificate
(custom_cname_black_list)
custom_cname_black_list=http://<IP address of Web-server>/blacklistcn.dict
# IP addresses dictionary for blocking HTTPS by IP (custom_ip_black_list)
custom_ip_black_list=http://<IP address of Web-server>/blacklistip.dict
# Host names dictionary for blocking HTTPS by SNI (custom_sni_black_list)
custom sni black_list=http://<IP address of Web-server>/blacklistip.dict
```

## **DSCP** Rules

Change to "Applications and policings" section  $\rightarrow$  "DSCP Rules".

| SPEC | CTRE DPI                 | APPLICATIONS & POLICINOS / CISCP HULLES                                      |   |                    |      | IN -      | @=      |
|------|--------------------------|--|---|--------------------|------|-----------|---------|
| RULE | 15                       | DSCP RULES   |   |                    |      |           |         |
| Ш.   | APPLICATIONS & POLICINGS | Set DCSP prostly to approximin to use it in 18P                              | polite in use CPIOP to book application on all CPI units. | Rule creating form |      |           |         |
| IT.  | Policings profiles       | Warning: Prorty works globally!  |   | 1                  |      |           |         |
| It.  | Protocols Ital           | Set priority to protocol<br>stat typing protocol name or use protocol list t | elaw.   | _                  |      |           |         |
|      | ASN PILTER               | Application protocol ADL/ICQ   |   | Priority<br>490    | -    | BETOSCP   |         |
|      | IP & ASN EXCLUDES        | <ul> <li>Databile search</li> </ul>  |   |                    |      |           | 3       |
|      | ISPS & IGWS PROFILES     | PROTOCOL NAME  | PRORTE  | REDULATOR          | DATE |           |         |
|      | DATABASE SEARCH          | AOLICO   | of  |                    |      |           | 10      |
| •    | BYSTEM GLOBAL STATE      | Enable/Disabl  | e   |                    |      | Edit rule |         |
| 4    | DICTIONARIES             | EXPORT Fulle   |   |                    |      | Dele      | te rule |

#### Creating

In the form of rule creating:

- Enter the name of application protocol and choose one from the list;
- Choose the priority from the list.

Save the rule by clicking on "Set DSCP" button.

#### Editing

In the list of DSCP rules click on "Edit rule" button. In the popup editing form set the necessary priority and save changes by clicking on "Set DSCP" button.

| et DCSP priority to application to use it in IS                       | SP profile or use DROP to block ap | plication on all DPI units. |   |      |          |
|---|------------------------------------|-----------------------------|---|------|----------|
| Warning: Priority works globally!                                     |                                    |                             |   |      |          |
| et priority to protocol   |                                    |                             |   |      |          |
| et priority to protocol<br>at typing protocol name or use protocol is | t helper.                          |                             |   |      |          |
| Application protocol ADLADQ   | Ed                                 | it rule                     | × |      | SET DSOP |
|   |                                    |                             |   |      |          |
| C. Defailable search  | Pro                                | otocol: AOL/ICQ             |   |      |          |
| PROTOGOLINAME   | P83                                | norty *                     |   | DATE | -        |
| D A00.100   |                                    | 50                          | × |      |          |
| L3 OF 8   |                                    |                             |   |      | 1501     |
|   |                                    | SET DSCP                    |   |      |          |

### Deleting

In the DSCP rules list click the button "Delete rule" and confirm/cancel the operation.

| DSCP RULES<br>Set DCSP priority to application to use it in 154                                     | profile or use DROP to block application on all DP | unis      |                 |                      |
|---|--|-----------|-----------------|----------------------|
| Warning: Priority works globally!   |  |           |                 |                      |
| Set priority to protocol<br>Start typing protocol name or use protocol list<br>Application protocol | niper  | Protty    | -               | SET DSCP             |
| O, Datatable search   |  |           |                 | Delete rule          |
| PROTOCOL NAME   | PROBITY  | REGULATOR | DATE            | × •                  |
| SECTO<br>EXPORT   |  |           | Delet<br>An you | e?<br>cancel/Confirm |

## **ASN Filter**

Change to the "ASN Filter" section.

| SPECTREDPI  | ASH PRIME LOOP FULCE   |   |                            |                    |                  | E91 -          | @ @ - |
|---|--|---|----------------------------|--------------------|------------------|----------------|-------|
| HALES     WES & P FLICE     APPLICATIONS & POLICINOS     ADHIFUEN     PA AGHIFUEN     PA AGHIFUEN     WHITEURT     SINS INCOMPANY     SUNTEURT     SINS INCOMPANY     SUNTEURT     DETTOMMENT | DSCP RULES<br>Det CCP printly to ABAI direction<br>Wanning Procty enhanded<br>Add new rule<br>THEI<br>Ministry<br>Paint casolities ' | h we lin SP pulle or sec (200° is block)<br>N | Shi haffi; on al DPI anto. | Rule creating form | Dools *          |                | •     |
|   | C. Database search.  |   |                            |                    |                  | Edit rul       | 0     |
|   | ALC HEAMERTS   | TRALE HEAVE                                   | PRONTY                     | REGIL/TOR          | DESCRIPTION      | 0.78           |       |
|   | • 10H  | Ruhi  | ot                         |                    | Itali Desciption |                | 2.0   |
|   | e Hori   | 00  |                            |                    | 440              | 17-94 30 04 32 |       |
|   |  | /Disable rule                                 |                            | 60 K 1 > 30-       |                  | Delete         |       |

## Creating

In the form of rule creating:

- Specify the number of AS;
- Choose the priority from the list;
- Enter the rule name;
- Enter the rule description.

Save the rule by clicking on "Set DSCP" button.

### Editing

In the list of DSCP in ASN direction rules click on the "Edit rule" button. If necessary, in the popup editing form:

- choose the priority from the list;
- Enter the rule name;
- Enter the rule description.

| Warning: Priority works globally! |              |  |      |                   |           |      |
|-----------------------------------|--------------|--|------|-------------------|-----------|------|
| Add new rule                      |              | Edit rule  | ×    |                   |           |      |
| A montai "                        |              | AS number: 11101 Pointy * ad Point new * Point Point Security in Point Security in Point Security in Point Description | - Ru | le editing form   |           |      |
| ), Database wants                 | TAR NUMP     | SETOSCP  |      | DESCRIPTION       | Edit rule |      |
|                                   | Total Contra | cal.   |      | Rulei Description |           | 1 10 |
| D IIM                             | Pupel        |  |      |                   |           |      |

Save the changes by clicking on "Set DSCP" button.

## Deleting

In the list of DSCP in ASN direction rules click the button "Delete rule" and confirm/cancel the operation.

| Norning: Priority works globally! |                   |         |            |                               |  |
|-----------------------------------|-------------------|---------|------------|-------------------------------|--|
| Add new rule                      |                   |         |            |                               |  |
| AS number +                       |                   |         |            | Printly *                     |  |
| Rate carrie 1                     |                   |         |            |                               |  |
| Rule1                             |                   |         |            |                               |  |
| Rule1 Description                 |                   |         |            |                               |  |
|                                   |                   |         |            |                               | Delate?                                |
| Rulet Description                 |                   |         |            |                               | Celess?<br>Are you ward Cancel/Confirm |
| 9ET 0809                          |                   |         |            |                               |  |
| 9110509                           | RULT NAME         | PROFETY | REGULATION | DESCRIPTION                   | An you sure"Cancel/Confirm             |
| Dalalahir unavit                  | FULE NAME<br>Raid | PROFETY | RESUL4758  | DESCRIPTION<br>Real Decoption | An you sure"Cancel/Confirm             |

## **IP & ASN Excludes**

Change to the "IP & ASN Excludes" section.

| SPECTRE DPI   | # 5 KIN EXCLORES (# CHILLORES USF  |           |                      |                       |                 | CX - | () et -              |
|---|--|-----------|----------------------|-----------------------|-----------------|------|----------------------|
| RINES VIED-6 IP FILTER APPLICATIONS & POLICINGS ADVICTORS   | IP EXCLUDES<br>Add P or CDR to bob and all P tollic will b<br>Warning: This eets PAGS priority to P-r                          |           |                      |                       |                 |      |                      |
| P 4 KIN DOLUGOS     Pecclular     ASE ectular     ASE ectular     ASE ectular     VHTLUST     BPL4 IONS PECFLEX     DAVIDASE SCHOL     VHTTLIS CLOBA STATE     DCTOMRES | Add new rule<br># # cool * -<br>#2:450.11<br>Path devotes *<br>Rate Devotes *  |           |                      | Post Start<br>Rugi    |                 |      |                      |
|   | C         Balakis suonk.           # OR CORK         # OR CORK           C         MARKADA           S1 OF1         # OR POINT | NULL MARK | жаллар<br>с ( ) > 30 | DECOPTON<br>MAG<br>20 | DMB<br>ICH JONG |      | 23<br>21 0<br>04 10. |

## **IP Excludes**

Change to the "IP & ASN Excludes" section  $\rightarrow$  "IP Excludes".

| SPECTRE DPI  | # 5 ASH EXCLUDES ( # EXCLUDES USF   |                 |                      |                           |                        | CN -            | ()<br>()<br>()  |
|--|---|-----------------|----------------------|---------------------------|------------------------|-----------------|-----------------|
| PRAES         VES & P PLICE           APPLICTIONS & POLICINGS         ASN PLICE           PARA EXCLUDES         POLICINGS           Presides         PRESIDES           ASN enders         VMTELST           BP & IONS PROFILES         DARBASE SCHOOL           PREADES SCHOOL         SCHOOL | IP EXCLUDES<br>Add P or COR to take and all P holls will be per-<br>Wanking. This arm PAGE private to P-add will<br>Add new rule<br>9 or COR *<br>122:100.11<br>- halts descention *<br>Ratet Description |                 |                      | Exclusion creation form   |                        |                 |                 |
| <ul> <li>DICTIONARIES</li> </ul>   | NET FOCUSIONES  |                 |                      | Exclusion list            |                        |                 |                 |
|  | C Indexe week.  | KAE MAR<br>writ | MICLAFOR<br>SE E 1 1 | DECREPTION<br>well<br>5 M | EARE<br>87-88 30 no.03 | t exclusion     | 0<br>2 0<br>2 4 |
|  | EXPORT  |                 |                      |                           |                        | elete exclusion | n               |

### Creating

In the form of rule creating:

- Specify IP/CIDR;
- Enter the rule name;
- Enter the rule descriptuin;

Save the rule by clicking on "Set exclusion" button.

### Editing

Click on the button "Edit exclusion". In the form of rule editing you can change:

- name of the rule;
- its description.

| Edit rule                              | × |
|--|---|
| IP or CIDR: 192.168.1.203              |   |
| Rule name * Rule1                      |   |
| Public description * Rule1 Description |   |
| SET DSCP                               |   |
|  |   |

Save the changes by clicking on "Set DSCP" button.

## Deleting

In the list of exclusions click the button "Delete exclusion" and confirm/cancel the operation.

| IP EXCLUDES                                     |                               |           |             |                  |
|---|-------------------------------|-----------|-------------|------------------|
| Add IP or CIDR to lists and all IP traffic will | be passed without processing. |           |             |                  |
| Warning: This sets RKSS priority to IP          | addresses and works globally! |           |             |                  |
|   |                               |           |             |                  |
| Add new rule                                    |                               |           |             |                  |
| 192 168 1 1                                     |                               |           | Rule 1      |                  |
| Public description *<br>Rate1 Description       |                               |           |             |                  |
|   |                               |           |             |                  |
| SET EXCLUSION                                   |                               |           |             |                  |
| C, Extended events                              |                               |           |             |                  |
| IP 01.001                                       | TULE MARE                     | REGULATOR | DESCRIPTION | Delete exclusion |
| BEH4130   | satli                         |           | ter()       | 6.3 MA           |
| EXPORT  |                               | er e 1 >  |             | CANCEL           |

## **ASN Excludes**

Change to the "IP & ASN Excludes" section  $\rightarrow$  "ASN Excludes".

| SPECTRE DPI  | # 8 KM DIGLIGES (# CHILLOCS-USF  |                   |                    |                  |                    | CX - | ()<br>() |
|--|--|-------------------|--------------------|------------------|--------------------|------|----------|
| INVES         VEB & P FUTER           APPLICKTIONS & POLICHIONS         APPLICKTIONS & POLICHIONS           ARM FUTER         P & ARM FUTER           P & ARM FUTER         P & ARM FUTER           O MONING SEARCH         SYNTEM GUORAL STATE           D OCTOMARES         PARTONES | IP EXCLUDES<br>Add P or COR is belowed at P holls will be<br>Wenning: This area PAGS prody to P-4<br>Add new rule<br>P or COR *<br>#22-950.11<br>Path: drawatike: *<br>Relat Description<br>NTTECLOROW |                   |                    | Sin is<br>Raft   |                    |      |          |
|  | Badda sont,      P OR ODR      Initial 28      Nicer      ISTORY      INITIAL  | NULE NAME<br>BALL | MOLLATON<br>AC 4 1 | 082009105<br>weD | DATE<br>#104 20053 |      | 2<br>2 0 |

#### Creating

In the form of rule creating:

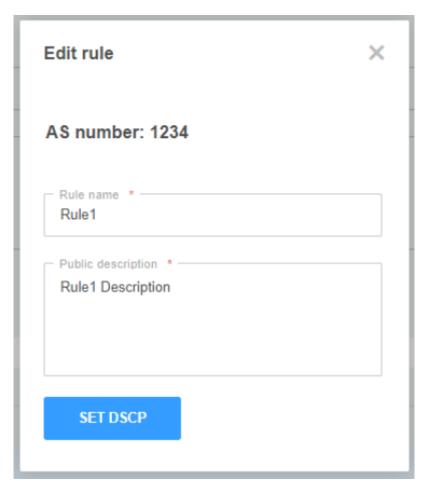
- Specify AS number;
- Enter the rule name;
- Enter the rule descriptuin;

Save the changes by clicking on "Set Exclusion" button.

### Editing

Click on the button "Edit exclusion". In the form of rule editing you can change:

- name of the rule;
- its description.



Save the changes by clicking on "Set DSCP" button.

## Deleting

In the list of exclusions click the button "Delete exclusion" and confirm/cancel the operation.

| ASN EXCLUDES                                |                                    |           |             |                     |       |
|---|------------------------------------|-----------|-------------|---------------------|-------|
| Add AS numbers to lists and all ASN traffic | will be passed without processing. |           |             |                     |       |
| Warning: This sats PASS priority to A       | 5 numbers and works globally!      |           |             |                     |       |
|   |                                    |           |             |                     |       |
| Add new rule                                |                                    |           |             |                     |       |
| AS number 1                                 |                                    |           | Rule nam    | et al.              |       |
| Public description *                        |                                    |           |             |                     |       |
|   |                                    |           |             |                     |       |
| SET EXCLUSION                               |                                    |           |             |                     |       |
| C, Dutatole search                          |                                    |           |             | Delete exclusi      | ion a |
| AS INJAMER                                  | PEALE NODE                         | RECELATOR | DISCRIPTION | DATE                |       |
| © 128                                       | mana 121411                        |           | nama 123000 | 08.00.20106/02      | 10    |
| ENDORL                                      |                                    | ec e 1 >  |             | Ant you have Cancel |       |

## **VIP Subscriber Management**

#### VIP Subscribers and their privileges

**VIP Subscriber** is a special subscriber whose traffic is passed with a dedicated priority (default is cs0) regardless of the priority settings for application protocols. The allocated priority is set by the special\_dscp configuration parameter. See section Configuration. The subscriber is connected through the installation of service 15 on DPI.

Privilege:

• Unlimited access to applications and resources that are subject to restrictions on use.

#### **Purpose of section**

This section is purpose to manage VIP Subscribers.

#### Getting started with section

Move to "IP & AC Exclusion"→"VIP Subscribers".

| 4             | Will Experts   | P & ADM EXCLUDES (VP DURITING ANT   |            |   |             | 111 - 🛞 ai -            |
|---------------|--|---|------------|---|-------------|-------------------------|
| 800<br>-<br>- | ES<br>WES & PPUTER<br>APPLICATIONS & POLICINOS<br>AS & DISCP<br>IP & ANN EXCLUDES  | VIP SUBSCRIBERS LIST<br>Add subscriber's Laple or IP to the foll and the balls for<br>Meeting: The VIP subscriber's sole to set globally in   |            | VIP Subscriber creation form            |             |                         |
|               | IP excludes<br>ASH excludes<br>VIP subscribes<br>WHITELIST<br>ISPS & KOVIS PROPILES<br>DATMENSE REAVICH  | Add new rule  | nt         | v Galacollar                            |             |                         |
|               | SYSTEM GLOBAL STATE  | Last entries of VIP subscribers   |            |   |             | Edit VIP Subscriber     |
| Ŀ             | ON / OFF Subscribe   | Automatic Balance.      Bala Carte      Al Balance      A | - 196<br>F | NEECONCE RAIN<br>HOLLALS<br>AC C B 3 35 | MGCE<br>DPS | 0<br>0<br>0<br>0        |
|               | NES & P FUTER<br>WEULGATORS & POLICINOS<br>IN & DOCO<br>P & ADM EXCLUDES<br>P & ADM EXCLUDES<br>P & ADM EXCLUDES<br>P & MAN EXCLUDES<br>D & MAN EXCLUDES | EXPORT  |            |   |             | Deleting VIP Subscriber |

#### Creation

In the VIP Subscriber's creating form:

- Select the type from the drop-down list (IP/Login);
- Enter IP or Login in the Subscriber field, depending on what you have chosen in the drop-down list;
- You can apply the rule to an ISP from the list and select multiple ISPs or click on the "Select All" button. If you accidentally clicked the "Select All" button, then click on the "Uncheck All" button;
- If your slider is disabled on apply to specific ISPs, then the new rule will be set globally to all ISPs.

| Add new rule Enable or disable applicati                           | on to a specific ISP | - 540007840<br>152164132166 |  |
|--|----------------------|-----------------------------|--|
| Apply the rule to ISPs from the list                               |                      |                             |  |
| Select ISP which the rule will be applied                          |                      |                             |  |
| Select all / Unselect all ISP<br>AnnePy<br>SELECT ALL UNSELECT ALL | Poctarastas<br>hBvS  | StayNet                     |  |
| Add VIP S  | ubscriber            |                             |  |

Save the VIP Subscriber by clicking the "Add" button.

#### Editing

Click on the "Edit VIP Subscriber" button. In the rule editing form, you can change:

- Application to certain ISPs from the list;
- Remove or add ISP.

| Edit rule  | × |
|--|---|
| VIP subscriber IP is 143.12.41.32.  Apply the rule to ISPs from the list |   |
| Select ISP which the rule will be applied                                |   |
| □ ДомРу □ MNS SELECT ALL UNSELECT ALL                                    |   |
| SAVE   |   |

Save your changes by clicking the "Save" button.

#### Deleting

In the VIP Subscribers list, click on the "Delete VIP Subscriber" button and, in the window that appears, confirm or cancel the deletion.

|                                  | ily if no 15Ps are specified! |                    |        |                           |
|----------------------------------|-------------------------------|--------------------|--------|---------------------------|
| kdd new rule                     |                               |                    |        |                           |
| Tipe                             |                               | Subscriber         |        |                           |
| D Apply the rule to ISPs from th | e list                        |                    |        |                           |
| ADD                              |                               |                    |        |                           |
|                                  |                               |                    |        |                           |
| tentries of VIP subscribers      |                               |                    |        |                           |
| DATIVABLE SEARCH                 |                               |                    |        |                           |
| RALE DATE                        | <ul> <li>TPE</li> </ul>       | RESOLRCE RAY       | MODE   |                           |
| 1 15-19-22/08/29                 | P                             | 143.12.41.52       | 1979   |                           |
|                                  |                               | ec e <b>1</b> > >> | Delete |                           |
| 07.1                             |                               |                    |        |                           |
| or +                             |                               |                    |        | Confirm / Cancel deletion |

## **ISP Configuration**

Change to the "ISPS & IGWS Profiles"  $\rightarrow$  "ISPs List".

| SPECTRE DPI                       | OPD & KNYD PROPILED ADPD LIDT   |                 |                                      |           |           | or - 🔘 (     |
|-----------------------------------|---------------------------------|-----------------|--------------------------------------|-----------|-----------|--------------|
| WED & IP FILTER                   | ISPS LIST                       |                 |                                      |           |           |              |
| APPLICATIONS & POLICINGS          | Select ISP Profile from the Isl |                 |                                      |           | Edit pro  | file         |
| ASN FILTER                        | Q. Databalic search.            |                 |                                      |           | Edit pro  | ine (        |
| PEASNEXCLUDES                     | NAME                            | DATE.           | <ul> <li>NETWORK LEARNING</li> </ul> | 214.22    | CIERO MUM |              |
| WHITELIST                         | <b>6</b> 10                     | ALC 23 10 10 12 | Outpresent                           | Raming Dr | 1         |              |
| D ISPS & IDUS PROFILES            |                                 |                 | at it is 1.                          | 35        |           |              |
| i tërshe 🕊                        | Enable/D                        | isable Profile  |                                      |           |           |              |
| Add new ISP profile               |                                 |                 |                                      |           | De        | lete profile |
| Kiths list<br>Add new IGW profile |                                 |                 |                                      |           |           |              |
| DATABASE SEARCH                   |                                 |                 |                                      |           |           |              |
| SHSTEM GLOBAL STATE               |                                 |                 |                                      |           |           |              |
| <ul> <li>DICTIONARIES</li> </ul>  |                                 |                 |                                      |           |           |              |

## **Creating an ISP Profile**

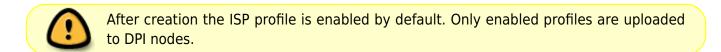
To create new IGW profile go to the "ISPS & IGWS Profiles" section  $\rightarrow$  "Add new ISP Profile".

In the form specify:

- Name of ISP profile;
- Choose the border from the list;
- Login to be used on the DPI node;
- Prefix for lists on the DPI node (it will be used as the name of service profile on the node);
- Choose bridges of the border;
- Choose Network training to get the addresses of this profile;
- Specify address/networks of the ISP (if necessary).

| SPE | CTREDAY                   | OPELISMERICALE: NO OF FRICKLARDY   |            |   |                            |       |   |        | 81.0   | @ # · |
|-----|---------------------------|--|------------|---|----------------------------|-------|---|--------|--------|-------|
| -   | VELAPRUTR                 | ADD ISP PROFILE (INEW  |            |   |                            |       |   |        |        |       |
| 1   | APPLICATIONS & POLICIPIES | ISP profile id: 9  |            |   |                            |       |   |        |        |       |
| 1   | 1017170                   | 19 (19 a) (19 a) (19 a)  |            |   | 10.07                      |       |   |        |        |       |
| 1   | P & ADVIDADAUDED          | ngi t  |            |   | 10/010                     |       |   |        |        |       |
| 1   | VINTILIET                 | Login so DPI male *  |            |   | Links prefix on DPI mode.* |       |   |        |        |       |
|     | SPS & KOYS IROPILES       |  |            |   |                            |       |   |        |        |       |
| T   | (Point                    | DPi nodes  |            |   |                            |       |   |        |        |       |
| 1   | Address TOP profes        | Defend DPC readers and parts obtain paradery indice of DPC II is write of a DPD system ratio of an | in almduly |   |                            |       |   |        |        |       |
|     | Although TON profile      | 840083   | 1 1        | + |                            |       |   |        |        |       |
|     | DRIVENSE SEAVEN           | 1000   | <b>a</b> D |   |                            |       |   |        |        |       |
|     | EVENIE GLOBAL ETATE       | Network learning   |            |   |                            |       |   |        |        |       |
|     | DICTIONARIES              | Drivinana  |            |   |                            |       |   |        |        |       |
|     |                           | O Dity adv   |            |   |                            |       |   |        |        |       |
|     |                           | Manual - auto  |            |   |                            |       |   |        |        |       |
|     |                           |  |            |   |                            |       |   |        |        |       |
|     |                           | Add network manually   |            |   |                            |       |   |        |        |       |
|     |                           | 198 192 192 192  | ABD        |   |                            |       |   |        |        |       |
|     |                           | G. Saturda menti-  |            |   |                            | 0.000 | 0.000   | () ent | C most |       |
|     |                           | 009  | - 19       |   |                            | 17    | -   |        |        |       |
|     |                           | <ul> <li>INTERES</li> </ul>  | limi       |   |                            | 14    | and the second se |        |        |       |
|     |                           | SAVE CRANCES SHE ARCOSSHEET  |            |   |                            |       |   |        |        |       |

Click on the button "Save changes" or "Save and Disable/Enable".



## **Editing ISP Profile**

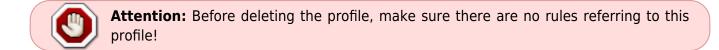
In the "ISPS & IGWS Profiles" section → "ISPs list" click on the button "Edit Profile".

A modal form for creating/editing ISP profile will pop up; make the chenges you need and click on the "Save changes" or "Save and Disable/Enable" button.

## **Deleting ISP Profile**

In the "ISPS & IGWS Profiles" section  $\rightarrow$  "ISPs List" click on the "Delete" button and confirm/cancel the action.

| ECTREDM                  | PER GAR PROPARE OF LIT          |             |                                     |        |                 | - m           |
|--------------------------|---------------------------------|-------------|-------------------------------------|--------|-----------------|---------------|
| 1.13                     | ISPS LIST                       |             |                                     |        |                 |               |
| WEEA IP FATER            |                                 |             |                                     |        |                 |               |
| APPLICATIONS & POLICINGS | Dated ID* Profile from the last |             |                                     |        | Dele            | te profile    |
| ASIVITIZER               | C). Restatu wards-              |             |                                     |        |                 |               |
|                          | NV/R                            | DALE        | <ul> <li>MLANEND TENNING</li> </ul> | TANK . | 00040-04.88     |               |
| IP-5-49H EXOLUDES        | 6 m                             | 017.3705.03 | Othermost                           | Dama D |                 |               |
| WW16161                  | 54.001                          |             |                                     |        | Delay?          |               |
| 15PS & KRUS PROFILES     |                                 |             |                                     |        | All plus hour C | ancel/Confirm |
| 105 M                    | EXPORT                          |             |                                     |        |                 | $\sim$        |
| Address CP (profile      |                                 |             |                                     |        | _               |               |
| KGHNs Bell               |                                 |             |                                     |        | Caneca          | OFLETE        |
| Addition 10/1 profile    |                                 |             |                                     |        |                 |               |
| OWTHEASE SEABOR          |                                 |             |                                     |        |                 |               |
| SYSTEM BUDGAL STUTE      |                                 |             |                                     |        |                 |               |
| OKTOHERS                 |                                 |             |                                     |        |                 |               |



## **Policing Profile**

Chenge to the "Applications and Policings" prfoile  $\rightarrow$  "Policings Profiles".

| PECTRE DPI                          | IPPLICATIONS & POLICINGS ( POLICINGS PROPILES |                          |  |                              | (N -          | 0  |
|-------------------------------------|---|--------------------------|--|------------------------------|---------------|----|
| * NED & P FILTER                    | POLICINGS PROFILES                            |                          | an one HTB or TOF eight publicity. TBF doesn't require not class. In |                              |               |    |
| APPLICATIONS & POLICIALS            |   | Policing type<br>HTB/TBF |  | a dan Lisapport Kallo salang | Edit policing | k  |
| DSCP Rates<br>Protocole-Rat         |   | - 1/2                    | oure<br>P2037913   | DESCRIPTION<br>Not           | East policing |    |
| ASN FILTER     P & ASN EXCLUDES     | Enable/Disable                                |                          | ec ( 1 )> 39   |                              |               | 1  |
| INHITELIST     ISPS & IGNS PROPILES | EProer  |                          |  |                              | Delete polici | ng |
| DKINERGE SEARCH                     | Policings                                     |                          |  |                              |               |    |
| DICTIONARIES                        | list  |                          |  |                              |               |    |

## **Editing Policing Profile**

Click on the "Edit policing" button.

| EDIT APPLICATION POLICING PROFIL  | EDIT APPLICATION POLICING PROFILE #1  |                   |                  |                            |  |  |  |  |  |
|---|---|-------------------|------------------|----------------------------|--|--|--|--|--|
| Policing profiles are connected to ISP profile. This profiles can be en | Policing profiles are connected to ISP profile. This profiles can be enabled and disabled. You can edit them. You can use HTB or TBF style policing TBF doesn't require sost class but don't support traffic ceiling. |                   |                  |                            |  |  |  |  |  |
| Profile name: ISP1 (Enabled)  |   |                   |                  | 8 ISP prefix configuration |  |  |  |  |  |
| Description *   |   |                   |                  |                            |  |  |  |  |  |
|   |   |                   |                  |                            |  |  |  |  |  |
| Patanatya *   | MUTOFILL.   |                   |                  |                            |  |  |  |  |  |
| Inbound profile.  |   |                   |                  |                            |  |  |  |  |  |
| 110<br>110  | Maps ~  |                   | lips 🔅 🖬 Enable  |                            |  |  |  |  |  |
| - CRO FLATE   | Bps ~   | - CSD CHIL<br>110 | Maps ~ Static    | Applications CS8 list      |  |  |  |  |  |
| - CS1 RATE  | list<br>Bps ~   | - CSH ODL         | Maps ~ Static    | Applications CS1 list      |  |  |  |  |  |
| - 652 RATE  | Unit  | - 682 00L         | Unit Vite Static | Applications CS2 list      |  |  |  |  |  |
| - 553 RATE  | Unit<br>Bps ~   | - 683 GBL         | Mips - Static    | Applications CS3 list      |  |  |  |  |  |
| - 554 RATE  | Unit<br>Bps ~   | - 664 GBL         | Mapa · Startic   | Applications CS4 list      |  |  |  |  |  |
| - CSS RATE<br>8   | Bps ~   | - 685 GBL<br>110  | Unit Static      | Applications CS5 list      |  |  |  |  |  |

In the popup editing form:

note

- Enter policing description;
- Choose policing type TBF/HTB (form with class values will look different depending on the type selected)

You can use configuration autocomplete:

- For HTB type: rate=8Bps, ceil=value that was specified in autocomplete form;
- For TBF type: rate=value that was specified in autocomplete form.

Th save the changes click on the button "Save profile" or "Save and disable/eneble".

Thy policing profile is disabled by default.

#### **Deletenig Policing Profile**

There are two ways to delete the profile: by clicking "Delete profile" button in the list of policing profiles or the same button on Editing Profile page.

## **WEB and IP Filter**

### **Locking Rules List**

Change to the "WEB and IP Filter" section.

| PECTREDM  | ,    | 000 A (* 75.707) |              |               |               |                          |   | Number of b  | locked  |                    |           |        | 111 -    | (B) == -         |
|---|------|------------------|--------------|---------------|---------------|--------------------------|---|--------------|---------|--------------------|-----------|--------|----------|------------------|
| RELES   |      | WEB &            | IP FILT      | ER            |               |                          |   | resources (b | by type | )                  |           |        |          |                  |
| Address rate  |      | WebIP 6          | neval au     | mmary         |               |                          |   |              |         |                    |           |        |          |                  |
| Check damain<br>Search database                               |      | 7796             |              | ACTIVE        | BISABLED<br>B | 10114.                   |   |              | List    | t of blocked       |           |        |          |                  |
| APPLICATIONS & POLIC  | 2405 | 64               |              |               | 1             | 4                        | - |              |         | esources           |           |        |          |                  |
| <ul> <li>ASN FILTER</li> <li>IP &amp; KIN EXCLUDES</li> </ul> |      | Last entr        | ies in Wei   | b/IP register |               |                          |   |              |         | 4                  |           |        |          |                  |
| <ul> <li>VHITELIST</li> </ul>                                 |      | 0, <b>De</b>     | iable search |               |               |                          |   |              |         |                    |           |        |          | ø                |
| ISPS & IOVS PROFILES  |      |                  | 10.0210      | OWTE          |               | <ul> <li>T/PE</li> </ul> |   | RESOLATE MAY |         | RESOLUTE VALUE/RED | REGULATOR | READEN |          |                  |
| ATABASE SEARCH  |      | Radial           |              | 1112/09/17    |               | 20                       |   | min          |         | Saalas             | 8801      | Tarr   |          | 1                |
| SYSTEM GLOBAL STATE   |      | Builted          |              | DBR/00017     |               | 69                       |   | min          |         | anim.              | 100 I     | Terr   |          | 1                |
| DICTIONARIES  |      | Initial          |              | 1100209017    |               |                          |   | min          |         | Saalas             | 8001      | Terr   |          | 1                |
|   | _    | Radial           |              | 1112/06/07    |               | C11                      |   | min          |         | nán                | NUMO 1    | Tarr   |          | 1                |
|   |      | Dativit          |              | DBK/00017     |               | 0                        |   | 25.5         |         | randos az          | 8001      | Tez    |          | 1                |
|   |      | Initial          |              | 110209017     |               |                          |   | 74.92        |         | 1 parties as       | 8001      | Terr   |          | 1                |
|   |      | Robini           |              | 1112-0017     |               | 20                       |   | 344          |         | jan .              | MING I    | Tarr   |          | 1                |
|   |      | Dated            |              | III KINNEP    |               | 81                       |   | 10.9         |         | 1 million          | 8001      | Tex    |          | 1                |
|   |      | 14.021           |              |               |               |                          |   |              | 1.00    |                    |           |        |          | <b>X</b> • • • • |
|   |      | EXPO             | RT .         |               |               |                          |   |              |         |                    |           | E      | dit rule |                  |

## **Creating/Editing Locking Rules**

- To create new locking rule for a resource, change to the "WEB and IP Filter" section → "Add new rule";
- To edit an existing rule change to the "WEB and IP Filter" section and click on "Edit rule" button.

In the popup form:

- Choose the regulator;
- Choose the category;
- Enter rule public description;
- Enter rule hidden description;

#### ADD RULE #NEW

| Rule Ht I  |   |
|--|---|
| Paraterie *<br>REG 111 v   | Conson *<br>CAT1HI v  |
| Public Description   | - Description *  Immenul Description  |
| The descriptor off he shown if you have public blackled dilations:   | The is indexed description being the in the line size is not a change state Validation form |
| Resource   | ¥ .   |
| Select type of resource and put the URL_SNL CN, IP, IP-PORT or CDPI to this field.   | The VALIDATE  |
| Validation result: This is SSUTLS resource. We can block FULL DOMANN     Not SNI and CN will be added to the lat.     SNI incobook.com     SNI "incobook.com     CN tacebook.com     CN tacebook.com |   |
| 🕢 ADD TO LIST 🥢 BIPORT FROM FILE   | Validation result   |

In the resource validation form, enter the resource and choose its type:

- If it is not nesessary to validate the resourse, just click on "Add to the list" button;
- Click on the "Check" button. Information about the resource will be displayed. It can be added to the rule locking list. To do this, click the "Add to List" button.

| List of resourses                             |                |                |                                     |        |                 |
|---|----------------|----------------|-------------------------------------|--------|-----------------|
| TYPE  | RESOURCE BAIN  | RESOUR         | ICE VALIDATED                       | STATUS | Delete resource |
| © 20  | dambook rom    | * deviced      | Loom .                              | Name:  | 0               |
| <b>D</b> 00                                   | diculoreds com | fambode        |                                     | Vest   | 0               |
| O 01  | ficebook.com   | *dotod         | LOW                                 | Valid  | Ċ.              |
| C CI  | ficebook row   | Barlock.       | -                                   | Valid  | 0               |
| CLEAR ALL                                     |                |                | Resources list<br>in the rule       |        |                 |
| <ul> <li>Apply the rule to ISPs to</li> </ul> | from the list  |                |                                     |        |                 |
| Select ISP which the rule will be apply       | d              |                |                                     |        |                 |
| ISP1  |                |                |                                     |        |                 |
| SELECT ALL UNS                                | ELDCT ALL      |                |                                     |        |                 |
| Actions log                                   |                | N N            | Applying the rule<br>to ISP profile |        |                 |
| 0.476   | + USER         | ACTION         | NEW VALUE                           | 0      | LD VALUE        |
|   |                | Data not found |                                     |        |                 |
| 8.8 OF 8                                      |                |                |                                     |        | 5-04 <b>H</b> . |
| SAVE CHANGES                                  | WE AND DISAILE |                |                                     |        |                 |

In the subsection for binding rules to ISP profiles:

- If the option "Apply the rule to ISP from the list" is **disabled**, such rule will be global. Resources from this rule will be included in the global lists of blocked resources.
- If the option "Apply the rule to ISP from the list" is **enabled**, such rule will be applied only to those ISP profiles, which are noted in this rule. Resources from this rule will be included in the locking lists for these ISP profiles.

### **Deleting the Locking Rule**

Change to the "WEB and IP Filter" section and click on the "Edit the rule" button.

|                 | SWEAND DISABLE EXPORT RULE                                       |  |          |        | DELETE RUL |
|-----------------|--|--|----------|--------|------------|
| MOPT            |  | « < t > »  |          |        | B-OV 1     |
| 123 304635      | -  | The rule created.  |          |        |            |
| IATE            | - USBR   | ACTION   | NEWWALKE | 0.000  | elete rule |
|                 | from the list. The rate will be applied for all CPPs by default. |  |          |        |            |
| CLEAR ALL       | healwok zem  | * ficoleok zen   |          | Tabl   |            |
| D an            | facebook.com   | fanbruk rom  |          | Tabl   |            |
|                 | fambook.com  | A damber is a second se |          | 144    |            |
| D GI            | facebook.com   | faoloik.com  |          | Tabl   |            |
| TIPE            | RESOURCE RAW   | RESOURCE   | ALIDATED | 574795 |            |
| €) A00 TO UST ← | IMPORT FROM FILE   |  |          |        |            |
|                 |  |  |          |        |            |

**Attention**: Before deleting a rule, make sure it does not refer to any ISP profile.

## **Domain Check**

Change to the "WEB and IP Filter" section  $\rightarrow$  "Check domain".

| SPECTRE DPI   | MER & # PECEN I O ECV. DOMAS   | 01 - | () at - |
|---|--|------|---------|
| RAES  | CHECK DOMAIN   |      |         |
| HED & P?LTER     Add new rule                                   | Enter P'ar UEL with highlighing polls to clock resource counter source also<br>— Natural Court — |      |         |
| Check domain     Search-skilabase                               | Bioconst unix.<br>Bioconst   |      | CHECK   |
| APPLICATIONS & POLICINOS<br>ASILIPIETER                         | k l  |      |         |
| PANNEXCLUDES  | Domain check form  |      |         |
| <ul> <li>INNTELIST</li> <li>ISPS &amp; KINS PROFILES</li> </ul> |  |      |         |
| <ul> <li>DKIABASE SEARCH</li> </ul>                             |  |      |         |
| <ul> <li>SYSTEM GLOBAL STATE</li> <li>DICTIONARES</li> </ul>    |  |      |         |

In the "Resourse Check" field type in the URL of resourse to be checked. Then click on the "Check" button. Information about the specified resource will be displayed below the form:

- SSL/TLS, locking type;
- Certificate information;
- DNS list;
- Recommendations about the values to use to lock this resource.

#### CHECK DOMAIN

| Unior 27 or 1215, with http://dips.peels.in.object.resource.com/or comed rule<br>Texacute chain | Certificate info   |
|---|--|
| This is SSL/TLS, locking type   |  |
| Certificate general information   |  |
| Connections   | Me rom   |
| 125   |  |
| 20  | WWX TWC JUNE   |
| 85  | fighte could   |
| D1  | Read   |
| 21  | wells a d  |
| 35  | Rom  |
| Taul matter of U.D.S.   | i contra de la c |
| п.  |  |
| Sporos sipotes  | da299/mR34damptos  |
| Ser type  | Es.  |
| Sey and   | 200 m  |
| Inter Stander   | 281222381146041006114100   |
| Selain  | 12:00 mon.m  |
| Taxibe  | M-92040  |
| Taube of eets   | 1  |

| 🗄 DOWNLOAD FILE 1                                |                    | for resource                       | ocking    |  |  |  |
|--|--------------------|------------------------------------|-----------|--|--|--|
| Devriced Neto Inport to rule:                    |                    | Recommend                          | ations    |  |  |  |
| 38   |                    | 100.000                            |           |  |  |  |
| 84   |                    | Veram.                             |           |  |  |  |
| 01   |                    | *Mean                              |           |  |  |  |
| 6:   |                    | Weam                               |           |  |  |  |
| To block this resource only with certificate use |                    | DNS list                           |           |  |  |  |
| Result information                               |                    |                                    |           |  |  |  |
| UND HUMBON TH                                    |                    |                                    |           |  |  |  |
| NOC 1<br>DPCD recursion: No                      | Rodan              | Carlerta #Lowcapitite.com          | 200       |  |  |  |
|  | he san             | chariar E as a muse applities come | 300       |  |  |  |
| 26   | Room               | ad Nobuse                          | 999       |  |  |  |
| 28.  | hrm                | and Hindoward                      | 800       |  |  |  |
| 36   | Room               | mil Nolts ar sk                    | 900 C     |  |  |  |
| 28   | Re. Jam            | and Perulam and all                | 80        |  |  |  |
|  | fir.om             | 25.36.303                          | 30        |  |  |  |
|  | Rc on              | 20.00.00                           | 27        |  |  |  |
|  | No com             | 21.31.24.0                         | 37        |  |  |  |
|  | zoawerenae<br>Room | ACOVIDE<br>10.31.44.11             | TL.<br>39 |  |  |  |
|  |                    |                                    |           |  |  |  |

## Search the Database (among the blocking rules)

Change to the "WEB and IP Filter" section  $\rightarrow$  "Search Database".

In the "IP, CIDR, Domain, Notes" field enter the value in accordance with the prompts at the top of the page. Then choose type of search: Full Text, By Resources or By Description. Click on "Search" button.

As a result, all blocking rules that match the selected search parameters will be displayed.

| ПЛАВНИТА<br>ФИЛЬТР WEB И Р<br>Добать конос правнето<br>Проверить дожев<br>Понок по боле | ПОИСК ПО БАЗЕ<br>Поеск по базе денных Web JTP<br>Используйте * до и после пакаового<br>Используйте * до и после пакаового<br>Используйте * до и после для поеса<br>Соказа гомоца. |                      | Форма для по<br>правил | иска             |            |           |
|---|---|----------------------|------------------------|------------------|------------|-----------|
| прилокения и поли   | CMMTM Reabook.com   |                      |                        | Поличий текст    | v          | поиск     |
| <ul> <li>distilistip HomePoill Act</li> <li>HORTROHEHMRI IP &amp; AC</li> </ul>         | Результаты поиска для 'face   | ibook.com/           |                        |                  |            |           |
| велый слисок  | MG JAWA   | 1941                 | PEO/PC                 | TPOEPEHHAR PEOPE | TEPPENDAA. |           |
| TPORMM ISP M ISH  | 1 11-01/30/01/33  | 101                  | factors on             | * developing and | Sectors.   |           |
| ROVICK TO SASE  |   | 101                  | Bardwell con           | facebook com     |            |           |
| COCTORHUE CACTEMA   |   | 05                   | facebook com           | * facebook.com   |            |           |
|   |   | 05                   | facebook.com           | facebook.com     |            |           |
| <ul> <li>спикасчники</li> </ul>   | 64.051  |                      | ec c 1 2 22            |                  |            | nexasts 1 |
|   | 3HDNOPT   | Результаты<br>пенека |                        |                  |            |           |

## Whitelist

## Whitelist rule list

Change to the "Whitelist" section.

| SPE | CTRE DPI              | WHILE |         |            |                  |                        |        |      |                  |                   |                  |           |           | 10 -      | @ m - |
|-----|-----------------------|-------|---------|------------|------------------|------------------------|--------|------|------------------|-------------------|------------------|-----------|-----------|-----------|-------|
| 81  |                       | WH    | TELI    | ST         |                  |                        |        |      |                  |                   |                  |           |           |           |       |
| 1   | VER & P PLTER         | Last  | entries | in Whit    | elist register   |                        |        |      |                  |                   |                  |           |           |           |       |
| ŀ   | ADD PR708             | *     | ening T | No tuck at | NOUTER CORPTA IN | eouroes in flat below? |        |      |                  |                   |                  |           |           |           |       |
| 11  | P & KIN EXCLUDED      | 9.    | Deserve | asarth -   |                  |                        |        |      |                  |                   |                  |           |           |           | 0     |
| 9   | VHILLIT               |       |         | 0.110      | 1971             |                        | - 7778 |      | NUMBER OF STREET |                   | REPORTE VALUARED | PEOR ATON | 10,4000   |           |       |
| ш   | Add new rule          | -     |         | •          | RN NWD           |                        | 104    |      | Scillest can     |                   | *200000.000      | 100 11    | BOPOR.100 |           | 1     |
| ш   |                       | -     |         |            | 101000           |                        | 104    |      | Solbell can      |                   | Service on       | 100 11    | DOPORTON: |           | - 1   |
| 11  | ISPS & KIVIS PROFILES | -     |         |            | 101000           |                        | 01     |      | Software care    |                   | 120308-000       | 100 11    | DOPORTON: |           | 1     |
| 11  | DATABASE SEARCH       | -     |         |            | 1310900          |                        | e1     |      | Scillest can     |                   | holes on         | 100 11    | DOPORTON. | Edit rule | 1     |
|     | SYSTEM GLOBAL STATE   | -14   | 11.1    |            |                  |                        |        | -    |                  | $<-1 \rightarrow$ |                  |           |           |           | en 🔹  |
| •   | actionales            |       | aront   |            |                  |                        |        | Reso | urces list       |                   |                  |           |           |           |       |

## Creating/Editing the white list

- To create a new white list rule change to the "Whitelist" section  $\rightarrow$  "Add new rule";
- To edit an existing rule change to the "White list" section and click on the "Edit rule" button.

In the popup form:

- Choose the regulator;
- Choose the caregory;
- Enter rule public description;
- Enter rule hidden description;

| SPECTRE DAM  | WetTurt Loo Nut edu  |   | D1 -  | <b>()</b> = - |
|--|--|---|-------|---------------|
| RALES<br>VIES SIFFICIES<br>APPLICATION DIPOLEMENT                              | ADD RULE INNEW We have a second to research a fait heart   |   |       |               |
| ADE FECTOR      #7.6.40E EXCLUDES      VERTELIST      Kold Reservals      Kold |  | innes 1   |       |               |
| SP5 3 10H3 PROFILES     EAMBH3E SEARCH     S1157EM GLOBAL STATE     DCTIONARES | The designed with a line of pin the adde there is a set of the set | s minera duargene May yas in hertes on to arti a charge con |       |               |
|  |  | NA  | MIEAT |               |
|  | Welderlog regulg: This is UR./L.U. exclusion: For rais bios PULL DOLLOG<br>Kerd RM and CA: will be attimized for field<br>Bit of instances and<br>Bit of instances and<br>OK information and<br>OK 'Instances and  |   |       |               |
|  | 🕞 ADD TO LET 🧼 MARTER FROM FILE  | result  |       |               |

In the resource validation form, enter the resource and choose its type:

- If it is not nesessary to validate the resourse, just click on "Add to the list" button;
- Click on the "Check" button. Information about the resource will be displayed. It can be added to the rule locking list. To do this, click the "Add to List" button.

| List of resources   |                         |                                    |                 |           |             |
|---|-------------------------|------------------------------------|-----------------|-----------|-------------|
| hing.   | RESOURCE RAW            | 800                                | OURCE VALIDHTED | STATUS    |             |
| C 85  | Barthold and            | 100                                | ind on          | tana      | 0           |
| • et  | follow.com              | Scale                              | NR. THE         | Nee       | 0           |
| <ul> <li>a:</li> </ul>  | Instant-one             | 1                                  | test-on         | tana      | 0           |
| • e   | ficiteit.cm             | 5.4                                | HR THE          | Said      | 0           |
| CLEAR ALL   |                         |                                    |                 |           |             |
| Apply the rule to ISPs from the select ISP which the rule will be applied | the Tist                |                                    | Resources li    | st        |             |
| SELECT ALL UNSELECT   | ALL.                    |                                    |                 |           |             |
| Actions log   | ×.                      | pplying the rule<br>to ISP profile |                 |           |             |
| 2410  | - UNDR                  | ACTON                              | HERVACE         | DUD IMUUE |             |
| 1041300431  | -                       | The side created.                  |                 |           |             |
| 14.081  |                         |                                    |                 |           | 3478 B.     |
| SAVE CHANGES SAVE A   | ND DISAVELE EXPORT PALE |                                    |                 |           | DELETE RALE |

In the subsection for binding rules to ISP profiles:

- If the option "Apply the rule to ISP from the list" is **disabled**, such rule will be global. Resources from this rule will be included in the global lists of blocked resources.
- If the option "Apply the rule to ISP from the list" is **enabled**, such rule will be applied only to those ISP profiles, which are noted in this rule. Resources from this rule will be included in the locking lists for these ISP profiles.

### Deleting a white list rule

Change to the "Whitelist" section and click on the "Edit the rule" button.

|                                  | , SNI, Chi, IP, IP (PORT or CERT to this field.               |              |                     |                     |            |
|----------------------------------|---|--------------|---------------------|---------------------|------------|
| Remounce                         |   | 101          |                     |                     |            |
| ) AND TO LET                     | RECET FROM FILE   |              |                     |                     |            |
| st of resourses                  |   |              |                     |                     |            |
| 7198                             | RESURCE MAR   | REIGURG      | CENTRAL POLICY OF A | 653746              |            |
| 0 01                             | Dottest.com   | Solver.o     | -                   | 100                 |            |
| <b>6</b> 01                      | fashnik can   | * desidentia |                     | Name -              |            |
| • 10E                            | Bobeit.cm   | hotest.c     | -                   | 1888                |            |
| 20 D                             | factoria con  | * dealershi  |                     | tana                |            |
| Apply the rule to ISPs fr        | on the INC . The same will be applied for all CPA by default. |              |                     |                     |            |
| ctions log                       |   |              |                     |                     | alata mula |
| ctions log                       | - 1988  | ACTON        | NEWALK              | e.cD                | elete rule |
| ctions log<br>pres<br>1101.39962 | - 150R<br>18  | Tarab paint. |                     | au n <mark>D</mark> | ×          |
| ctions log                       |   |              |                     | aura D              | elete rule |

**Attention:** Before deleting a rule, make sure it does not refer to any ISP profile.

## Whitelist operating mode management

Change to the "Whitelist" section  $\rightarrow$  "Mode".

**1** 

| SPECTRE DPI  |  |
|--|--|
| RULES VIELE & PRUTER APPLICATIONS & POLICINOS ADV PLICE PRASM EXCLUDES VIELES V | WHITELIST / MODE<br>Global Whetelist<br>Set mode for Global Yelesen blee<br>whitelist<br>Whitelist<br>Set Phalefer node for GSPs. If evalued for some ISP the Whetelet rules updated to ISP eil be agained.<br>Set Phalefer node for GSPs. If evalued for some ISP the Whetelet rules which connected to ISP eil be agained.<br>Set Phalefer node for GSPs. If evalued for some ISP the Whetelet rules which connected to ISP eil be agained.<br>Set Phalefer node for GSPs. If evalued for some ISP the Whetelet rules which connected to ISP eil be agained.<br>Set Phalefer node for GSPs. If evalued for some ISP the Whetelet rules which connected to ISP eil be agained.<br>Set Phalefer node for GSPs. If evalued for some ISP the Whetelet rules which connected to ISP eil be agained. |
| SYSTEM GLOBAL STATE     DICTIONARIES   |  |

- With the global whitelist mode enabled, the whitelist service is applied to all ISP profiles and resource lists are formed only from global whitelist rules;
- When the whitelist mode is enabled for a separate ISP profile, the service is applied only to ISP which has it enabled. The lists are formed only from white list rules which refer to this ISP profile;
- If both mode are enabled, global and separate ISP rules lists are concatenated. For other ISPs, the whitelist service is used with only the global whitelist rules.

## Database search (global)

Change to the "Database search" section.

In the "IP, CIDR, Domain, Comment" field enter the value in accordance with the prompts at the top of the page, choose search type: Full Text, By Resources or By Description. Click on "Search" button.

As a result, all blocking rules (with type specified) that match the selected search parameters will be displayed.

| PECTREDPI                                 | IIAO DOIAII   |      |                       |                       |                 |         | 19 -               | 0.       |
|---|---|------|-----------------------|-----------------------|-----------------|---------|--------------------|----------|
| 80123                                     | SEARCH DATABASE   |      |                       |                       |                 |         |                    |          |
| VIELS IF FILTER                           | Search by all debibere rules.                               |      | Search para           | motors                |                 |         |                    |          |
| APPLICATIONS & PEUCINOS                   |   |      | Search para           | tieters               |                 |         |                    |          |
| ASH FILTER                                | Use * before and after to secuch parties play<br>more help. |      | ×                     |                       |                 |         |                    |          |
| IP & KON EXILUTES                         | - IX COR, Suman, Summitten                                  |      |                       |                       | Falled          |         |                    | WARDS    |
| vm15.67                                   | CONSIGNATION NO.  |      |                       |                       | P 20 Mil        |         |                    | Granes.  |
| <ul> <li>ISPS-5 IOVIS PROPILES</li> </ul> | Search results for 'Seebook.com                             | es'  |                       |                       |                 |         |                    |          |
| 🔕 DATMENDE DEAMCH 🛹                       | BALE O DOTE   | TVHE | HEROLAND AND          | NEED, PLE IN LOCKE    | 844798          | Autor C | <b>DESCRIPTION</b> |          |
| STOTEM OLDERLISTATE                       | M Description   | 85   | and and and           | - <b>Balletin</b> (M) | Table 2 Billion |         | Status an          |          |
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| Search results                            | EMPIRE  |      |                       |                       |                 |         |                    |          |

## **Task monitoring**

Change to the "State of the system" section.

| 6.8.9                                      | TASKS LIST         |                |                              |        |               |               |            |
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| VEELA P FLITER<br>APPLICATIONS & PELICINGS | Experi lastis list |                |                              |        |               | DRLETE        | DELETE ALL |
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|  |                    | TIMU           | Pager Doll Par Ont-Objective | 8020   |               | 101 (MARC)    | -          |

This section displays the task queue, status and time.

To see the details of the task, click on "Task Details".

## Logs

The logs for this section are stored in files:

```
/var/www/html/dpiui2/backend/storage/logs/ulr*.log
```

