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# 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:

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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	0.16
Attive     Attive     Attive     Attive     Attive       Attive     Attive     Attive     Attive     Attive     Attive				ult.	hivensal lock rules	😫 Tes	8.94
sk_policings       Mivessal lock noles / Applications & policings       Si Nes				alt_meb_tales	asivessal 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	20 Mai	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 Search database	TVPE EN		ACTVE	DIBABLED 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		Role .	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	11:10/2019/071		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 • 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 Regulators	C, Extender search -				
	NUME 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 * Regulator			Editing form	
Public description	Edit item	× 🖍		
	Regulator			
ADD ITEM	- Public description			
Dalaiside search				Edit
ĸ	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 4 *	ADD			
ш	ISPs Int Add new ISP profile							
ш		PLANE	EPI HIPEVUARE 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) at -
	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 stat typing protocol name or use protocol list t	elaw.	_			
	ASN PILTER	Application protocol ADL/ICQ		Priority 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
•	SYSTEM 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 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 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 Start typing protocol name or use protocol list Application protocol	niper	Protty	-	SET DSCP
O, Datatable search				Delete rule
PROTOCOL NAME	PROBITY	REGULATOR	DATE	× •
SECTO EXPORT			Delet An you	e? 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 Det CCP printly to ABAI direction Wanning Procty enhanded Add new rule THEI Ministry Paint casolities '	h we lin SP pulle or sec (200° is block) 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		ec « 1 > 3>		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 Communication	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? Are you ward Cancel/Confirm
9ET 0809					
9110509	RULT NAME	PROFETY	REGULATION	DESCRIPTION	An you sure"Cancel/Confirm
Dalalahir unavit	FULE NAME Raid	PROFETY	RESUL4758	DESCRIPTION Real Decoption	An you sure"Cancel/Confirm

# **IP & ASN Excludes**

Change to the "IP & ASN Excludes" section.

SPECTREDPI	# 5 KIN EXCLORES (# CHILLORES USF					CX -	() er -
RINES VIED-6 IP FILTER APPLICATIONS & POLICINGS ADVICTORS	IP EXCLUDES Add P or COTI to look and all P halfs will b Warning: This eets PAGS priority to P-r						
P 4 KIN DOLUGOS     Pecclular     ASE ectular     ASE ectular     ASE ectular     VHTLUST     BPL4 (2005 PECPLUS     DA78ASE SCHOL)     VHTTLI ELGAN STOTE     DCTOMRES	Add new rule # # cool * - #2:450.11 Path devotes * Rate Devotes			Post Start Rugi			
	C         Balakis suork.           # OR COR         #           SI ORI         \$1001           ROPPORT         \$2000	NULL MARK	жаллар с ( ) > 30	DECOPTON MAG 20	DMB ICH JONG		23 21 0 04 10.

# **IP Excludes**

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

SPECTRE DPI	# 5 ASH EXCLUDES ( # EXCLUDES USF					CN -	() () ()
PRAES         VES & P PLICE           APPLICTIONS & POLICINGS         ASM PLICE           ASM PLICE         POLICINGS           PARAE DELUDICS         POLICING           PRISE         PRISE           ASM endelse         WHITLIST           BIR & IONS PROFILES         DARBAE SCHOOL           PRISE IONS PROFILES         DARBAE SCHOOL	IP EXCLUDES Add P or COR to take and all P holls will be per- Wonlay. This arm PAGE private to P-add will Add new rule 9 or COR * 122:100.11 - halts descention * Ratet Description			Exclusion creation form			
<ul> <li>DICTIONARIES</li> </ul>	NET FOCUSIONES			Exclusion list			
	C Indexe week.	KAE MAR writ	MICLAFOR SE E 1 1	DECREPTION well 5 M	EARE 87-88 30 no.03	t exclusion	0 0 %
	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 RASS priority to IP	addresses and works globally!			
Add new rule				
192 168 1 1			Rule 1	
Public description * 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 -	() ()
INVES         VEB & P FUTER           APPLICKTIONE & POLICHIONE         APPLICKTIONE & POLICHIONE           IP & KON FLUTER         IP & KON FLUTER           IP & KON ENCLOSE         IP & KON SPECIFICES           IP & KON SPECIFICES         ONENANS ESCACH           INVESTER CLOBAL STATE         INVESTER CLOBAL STATE	IP EXCLUDES Add P or COR is belowed at P holls will be Wenning: This area PAGS prody to P-4 Add new rule P or COR * #22-950.11 Path: drawatike: * Relat Description NTTECLOROW			Sin is Raft			
	Badda sont,      P OR ODR      Initial 28      Nicer      ISTORY      INITIAL	NULE NAME BALL	MOLLATON AC 4 1	082009105 weD	DATE #104 20053		2 2 0

#### Creating

In the form of rule creating:

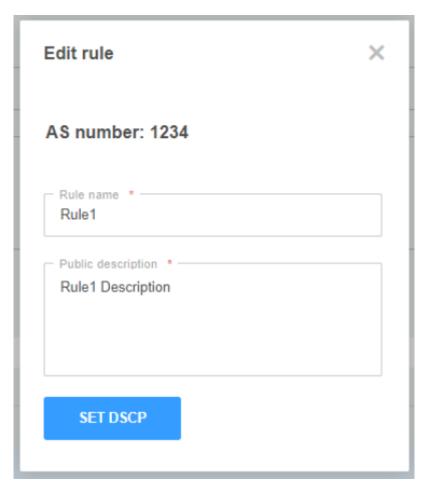
- Specify AS number;
- Enter the rule name;
- Enter the rule descriptuin;

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

Open section "IP & AC Exclusion"→"VIP Subscribers".

┥ Will Experts	IP & ADD EXCLUDES (VP DURICIDARIUS LIST				m- (	D O
RELES: VED A PRUTER APPLICATIONS & POLICINOS AS & DOCP P & ASM EXCLUSION	VIP SUBSCRIBERS LIST Add valuesher's Laple of P to the fail and the halffel Meeting. The VP subscriber's sub-is set global		VIP Subscriber creation form			
Presides     AIN excludes     VP subscitzer     WhitELIST     BPS & KOVS PROFILES     DATABASE (REVECH	Add new rule	lat	v Estacibar			
<ul> <li>SYSTEM GLOBAL STATE</li> </ul>	Last entries of VIP subscribers				Edit VIP Subscriber	
DETIGNATES	C, DUTUTURUS BELIECH	- 194	NEEDONCE AND	MODE		8
	<ul> <li>1 10 H 10 H 10 H 10</li> </ul>	7	10.12-0.22	272	×.	0
/	NOR1		44 4 5 30		DR24	1-
ON / OFF Subscrib	ERPORT				Deleting VIP Subscrib	

#### 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 152164132166	
Apply the rule to ISPs from the list			
Select ISP which the rule will be applied			
Select all / Unselect all ISP AnnePy SELECT ALL UNSELECT ALL	Poctarastas 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	25		
i tërshe 🕊	Enable/D	isable Profile				
Add new ISP profile					De	lete profile
Kiths list Add new IGW profile						
DATABASE SEARCH						
SHSTEM GLOBAL STATE						
<ul> <li>DICTIONARIES</li> </ul>						

# **Creating an ISP Profile**

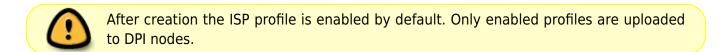
To create new IGW profile go to the "ISPS & IGWS Profiles" section  $\rightarrow$  "Add new ISP Profile".

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	+						
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		G. Saturda menti-				0.00	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**

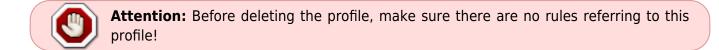
In the "ISPS & IGWS Profiles" section → "ISPs list" click on the button "Edit Profile".

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	017.3707.01	Othermode	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 HTB/TBF		a dan Lisapport Kallo Galling	Edit policing	k
DSCP Rates Protocole-Rat		- 1/2	oure P2037913	DESCRIPTION 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.									
110 110	Maps ~		lips 🔅 🖬 Enable						
- CRO FLATE	Dist. v	- CSD CHIL 110	Maps ~ Static	Applications CS8 list					
- CS1 RATE	lini Bps ~	- CSH ODL	Maps ~ Static	Applications CS1 list					
- 652 RATE	Unit Bps ~	- 682 00L	Unit Vite Static	Applications CS2 list					
- 053 RATE	Unit Bps ~	- 683 GBL	Mips - Static	Applications CS3 list					
- 554 RATE	Unit Bps ~	- 664 GBL	Mapa · Startic	Applications CS4 list					
- CSS RATE 8	Bps ~	- 685 GBL 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 Search database		7796		ACTIVE	BISABLED 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
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		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 * REG 111 v	Conson * 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 RAW	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 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	ELECT ALL				
Actions log		N N	Applying the rule 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 — Natural Court —		
Check domain     Search-skilabase	Bioconst unix. Bioconst		CHECK
APPLICATIONS & POLICINOS 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 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
85	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 DPCD recursion: No	Rodan	CarlwEa #LDHCapItIALIDH	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	P00			
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 Room	ACOVIDE 10.31.44.11	TL. 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 ФИЛЬТР WEB И Р Добать конос правнето Проверить дожев Понок по боле	ПОИСК ПО БАЗЕ Поеск по базе денных Web JTP Используйте * до и после пакаового Используйте * до и после пакаового Используйте * до и после для поеса Соказа гомоца.		Форма для по 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.	
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COCTORHUE CACTEMA		05	facebook com	* facebook.com		
		05	facebook.com	facebook.com		
<ul> <li>спикасчники</li> </ul>	64.051		ec c 1 3 33			nexasts 1
	3HDNOPT	Результаты 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 PRZEM	*	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:		1.1
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 VIES SIFFICIES 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	
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	🕞 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	ficitoricom	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 to ISP profile			
2410	- UNDR	ACTON	HERVACE	DU7 IMU/E	
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					
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**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".

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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.

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# **Task monitoring**

Change to the "State of the system" section.

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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
```

