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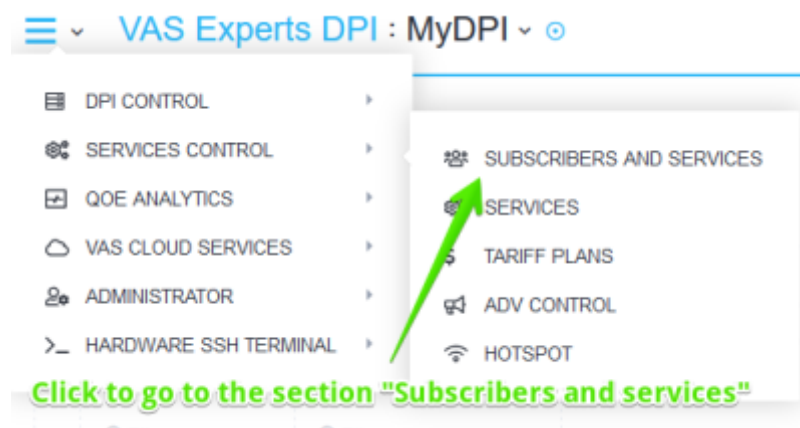
## 18 Channels and services

## Subscribers and services

In this section, when you go to the "Channels" tab, the channel section will open, in which you can manage the list of all channels on DPI equipment and bind services and tariff plans to them.

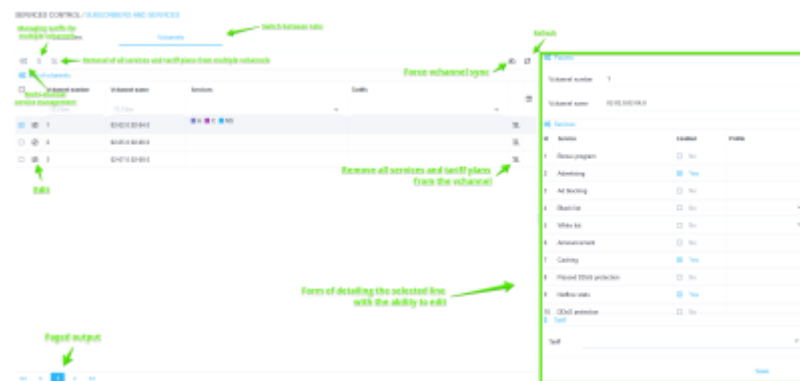
Synchronization of lists is performed on a schedule every 30 minutes.

To go to the section, open the Service management menu and click "Subscribers and services".



Next, you need to click on the "Vchannels" tab.

A section will open as in the picture below.



The section has the following options:

- Viewing the list of subscribers and vchannels, as well as connected services with the ability to filter
- Detailing by vchannel
- Activate / deactivate services
- Perform group operations
- Activate / deactivate tariff plan

## Vchannel editing

You can edit a vchannel either through the detail form (on the right), or through a separate form, if you click on the Edit icon opposite the vchannel.

**Params**

Vchannel number 1

Vchannel name 02-02.0:02-04.0

**Services**

Id	Service	Enabled	Profile
1	Bonus program	<input type="checkbox"/> No	
2	Advertising	<input checked="" type="checkbox"/> Yes	
3	Ad blocking	<input type="checkbox"/> No	
4	Black list	<input type="checkbox"/> No	
5	White list	<input type="checkbox"/> No	
6	Announcement	<input type="checkbox"/> No	
7	Caching	<input checked="" type="checkbox"/> Yes	
8	Passed DDoS protection	<input type="checkbox"/> No	

**Tariff**

Tariff

Close Save

## Group connection / disconnection of services

It is possible to connect and disconnect services to several vchannels at once. To do this, select several lines (using ctrl or shift) and click the Services button.

A form will open where you can connect and disconnect services to selected subscribers.

**List of vchannels**

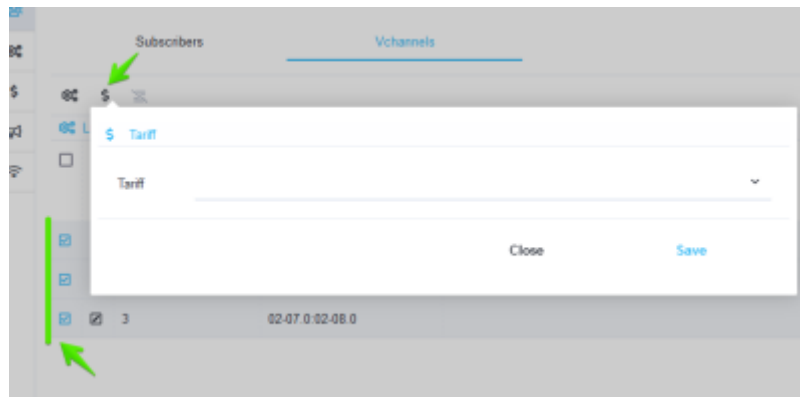
	Vchannel number	Vchannel name	Services
<input checked="" type="checkbox"/>	1	02-02.0:02-04.0	A C NS
<input checked="" type="checkbox"/>	2	02-05.0:02-06.0	
<input checked="" type="checkbox"/>	3	02-07.0:02-08.0	

Several selected

## Group connection / disconnection of tariff plans

It is possible to connect and disconnect the tariff plan for several vchannels at once. To do this, select several lines (using ctrl or shift) and click the Tariffs button.

A form will open where you can connect and disconnect services to the selected vchannels.



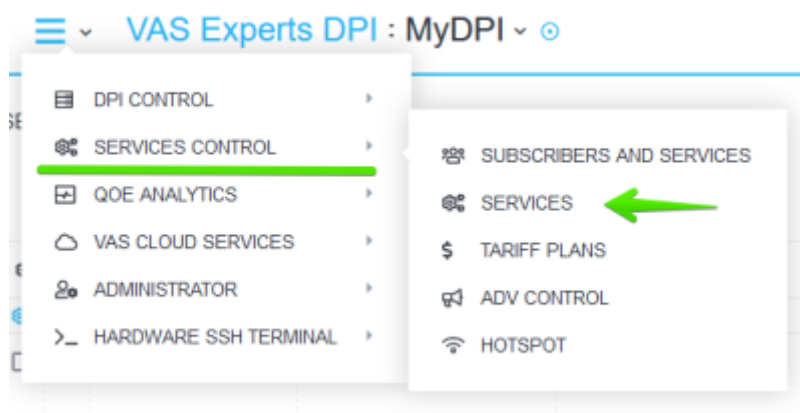
## Removal of all services and vchannel tariffs

It is possible to remove all connected services and tariff plans from the selected vchannels. To do this, click on the icon for deleting all services and vchannel tariffs in the penultimate column of the table.

A modal window will appear confirming the deletion of all services and vchannel tariffs.

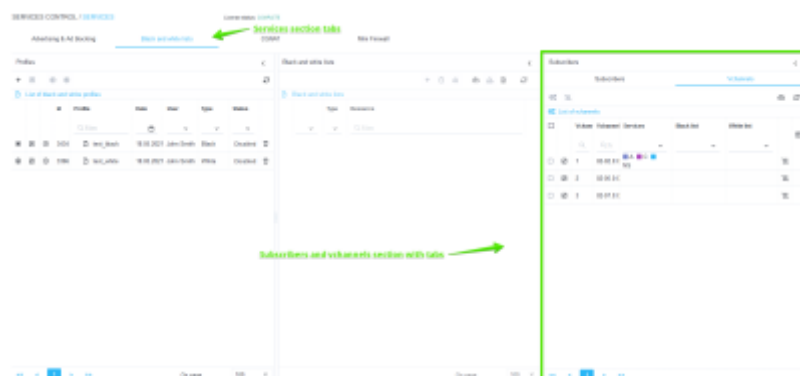
## Services

To go to the section, open the Service management menu and click "Services".



Then you need to go to any of the tabs except "Advertising & Ad Blocking".

A section will open as in the picture below.



## Black and white lists

The picture below shows the vchannel table, which has 2 columns, in which it is possible to view which "Black list" and "White list" profiles are applied to the vchannel.

The screenshot shows the 'Subscribers' interface in the 'Vchannels' tab. A green box highlights the 'Black list' and 'White list' columns. The table displays three subscribers with IDs 1, 2, and 3. Each row has a checkbox, a status icon (A, C, NS), and a date. The 'Black list' and 'White list' columns are currently empty.

	Vchanr	Vchannel	Services	Black list	White list
<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	02-02-00:00:00 A C NS		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	02-05-00:00:00		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	3	02-07-00:00:00		

**CGNAT**

The picture below shows the vchannel table, which has a column "CGNAT", in which it is possible to view which CGNAT profiles are applied to the vchannel.

The screenshot shows the OpenStack dashboard interface. At the top, there are tabs for 'Subscribers' and 'Vchannels'. The 'Vchannels' tab is selected. Below the tabs, there is a search bar and a 'List of vchannels' link. A table displays the list of vchannels with columns for selection, Vchannel ID, Vchannel Name, and Services. The table contains three rows of data. A green box highlights the 'CGNAT' dropdown menu in the 'Services' column of the first row.

	Vchannel	Vchannel	Services
<input type="checkbox"/>	1	02-02.0:02-01	CGNAT
<input type="checkbox"/>	2	02-05.0:02-01	
<input type="checkbox"/>	3	02-07.0:02-01	

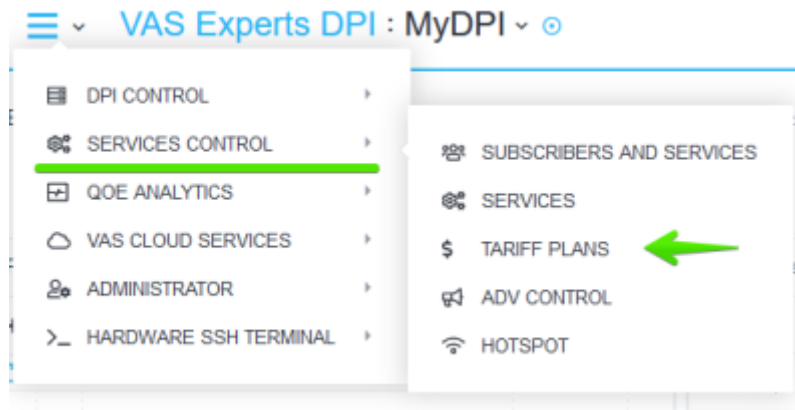
## Mini Firewall

The picture below shows the vchannel table, which has a "Mini Firewall" column, in which it is possible to view which Mini Firewall profiles are applied to the vchannel.

Vchannel number	Vchannel name	Services
1	02-02-0:02-04.0	
2	02-04-0:02-06.0	
3	02-07-0:02-08.0	

## Tariff plans

To go to the section, open the Service management menu and click "Tariff plans".



A section will open as in the picture below.

Subscriber number	Subscriber name	Services
1	02-02-0:02-04.0	
2	02-04-0:02-06.0	
3	02-07-0:02-08.0	

The picture below shows a table of vchannels, which has a column "Tariffs", in which it is possible to view which tariff plans are applied to the vchannel.

Vchannel number	Vchannel name	Tariffs
1	02-02-0:02-04.0	
2	02-05-0:02-06.0	
3	02-07-0:02-08.0	