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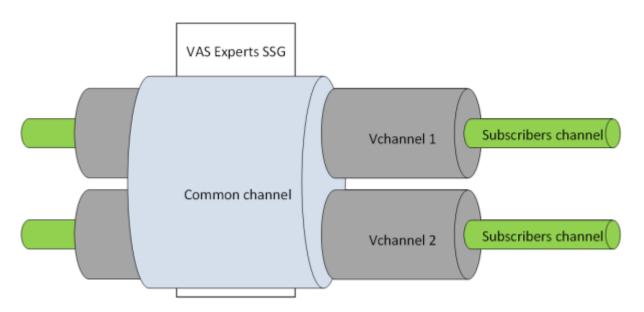
3 Multiple Channels Policing



More about VChannels configuration: video tutorial

In cases when the operator has several external (uplink) or internal channels often it is needed to control Channel Upper Boundary and limit low priority traffic independently of one another. Channel traffic is usually uneven and channels often are unequal.

It is necessary either to physically distribute the channels on different DPI interfaces, or to forward traffic on different channels through different VLANs so that the platform would be able to distinguish which traffic belongs to which channels.



Setting the channel parameters and constraints in the channel is same as subscribers rate plans using special identifier.

In the DPI setting /etc/dpi/fastdpi.conf there is a parameter to select distinguish type for channels:

vchannels_type=1

where

- 1 using NICs for different channels
- 2 using VLANs for different channels

After it you have to set NICs or VLANs list for virtual channels.

For NICs:



dna0 & dna1 - virtual channel 1, dna2 & dna3 - virtual channel 2. NICs that is not in vchannels_list but in in_dev/out_dev will be in general channel as before. It is managed as usual in configuration file

For VLANs:

vchannels_list=100:101-115/200:201:240-250



VLAN 100 and 101-115 - virtual channel 1, VLAN 200 and 240-250 - virtual channel 2. Traffic that is not in VLANs defined in vchannels_list will be in general channel as before. It is managed as usual in configuration file

Policing Configuration

Load the policing setting for channels 1 and 2

fdpi_ctrl load --policing vchannel1.cfg --vchannel 1
fdpi ctrl load --policing vchannel2.cfg --vchannel 2

where vchannel1.cfg - file with policing definition (same as for the general channel, virtual channels and subscriber rate plans)

Example of configuration file:

```
htb_inbound_root=rate 10mbit
htb inbound class0=rate 8bit ceil 10mbit
htb inbound class1=rate 1mbit ceil 3mbit
htb inbound class2=rate 8bit ceil 10mbit
htb inbound class3=rate 8bit ceil 10mbit
htb inbound class4=rate 8bit ceil 10mbit
htb_inbound_class5=rate 8bit ceil 10mbit
htb inbound class6=rate 100mbit static
htb_inbound_class7=rate 8bit ceil 10mbit
htb root=rate 10mbit
htb class0=rate 8bit ceil 10mbit
htb class1=rate 1mbit ceil 3mbit
htb class2=rate 8bit ceil 10mbit
htb class3=rate 8bit ceil 10mbit
htb class4=rate 8bit ceil 10mbit
htb class5=rate 8bit ceil 10mbit
htb class6=rate 100mbit static
```

htb_class7=rate 8bit ceil 10mbit

Let's check what settings is loaded:

fdpi_ctrl list all vchannel --policing

The settings for the virtual channels are stored in DPI UDR (internal database) and can be changed on the fly during operation as well as for subscribers. Configuration of policing for the channel can be loaded by the named profile eather.

fdpi_ctrl load --policing --profile.name vchannel_1 --vchannel 1

The tariff plan can be set in JSON format as well.

Black List Setup - Service 4

The profile is created similarly to creating Subscriber's profile: Filtering Management.

fdpi_ctrl load --service 4 --profile.name test_blocked —-vchannel 2

White List Setup - Service 5

The profile is created similarly to creating Subscriber's profile: White List Management.

fdpi_ctrl load --service 5 --profile.name test_white —vchannel 1