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Subscriber Channel Policing

1. How to Change the Tariff Plan for Multiple Subscribers

If a named profile is used for setting the tariff plan, simply change the tariff plan settings in this profile. These changes will automatically apply to all subscribers with this tariff plan name:

```
fdpi_ctrl load profile --policing rate_10_night.cfg --profile.name тариф_10
```

If the policing profiles are anonymous (without a name), you can switch one tariff to another as follows, using `rate10.cfg` bp from question 2 "How to Diagnose Bandwidth Distribution for a Subscriber?":

```
fdpi_ctrl list all --policing | grep 'rrate=1250000(10.00mbit)' | awk '{print $1}' > ll.tmp; fdpi_ctrl load --policing policing.htb.cfg --file ll.tmp;
```

or if a prepared list is available:

```
fdpi_ctrl load --policing policing.htb.cfg --file my_rate10_ip.lst
```

where `my_rate10_ip.lst` contains the list of IPs, for example:

```
# cat my_rate10_ip.lst
10.64.66.110
10.64.66.112
10.64.66.114
```

2. How to Diagnose Bandwidth Distribution for a Subscriber

Diagnosing the issue of lack of bandwidth limitation:

1. Enable the parameter `plc_trace_ip=109.234.130.131` in `/etc/dpi/fastdpi.conf`
2. Reload the configuration:

```
service fastdpi reload
```

3. Reload the bandwidth limitation rules:

```
fdpi_ctrl load --policing rat_HTB.cfg --ip 109.234.130.131
```

4. Check:

```
fdpi_ctrl list all --policing
```

Output:

```
Autodetected fastdpi params : dev='em3', port=29000
connecting 217.74.168.149:29000 ...
```

```
109.234.130.131 HTB      dnlnk_rate=0.00mbit      dnlnk_ceil=0.00mbit
```

```

rrate=500000(4.00mbit)  rburst=250000(2.00mbit)  rceil=500000(4.00mbit)
rcburst=250000(2.00mbit)      rate0=0.51mbit  ceil0=3.00mbit
rate1=0.01mbit
ceil1=1.00mbit  rate2=0.01mbit  ceil2=1.00mbit  rate3=0.01mbit
ceil3=1.00mbit  rate4=0.01mbit  ceil4=1.00mbit  rate5=0.01mbit
ceil5=1.00mbit  rate6=0.01mbit  ceil6=1.00mbit  rate7=0.01mbit
ceil7=1.00mbit  HTB_INBOUND  rrate=250000(2.00mbit)
rburst=125000(1.00mbit)  rceil=375000(3.00mbit)
rcburst=187500(1.50mbit)  rate0=0.51mbit  ceil0=2.00mbit
rate1=0.01mbit
ceil1=1.00mbit  rate2=0.01mbit  ceil2=1.00mbit  rate3=0.01mbit
ceil3=1.00mbit  rate4=0.01mbit  ceil4=1.00mbit  rate5=0.01mbit
ceil5=1.00mbit  rate6=0.01mbit  ceil6=1.00mbit  rate7=0.01mbit
ceil7=1.00mbit

```

Rules are loaded.

5. Check the statistics log for this IP. If there is traffic for this IP, the log is not empty; if it is empty, traffic is not passing through SKAT, or the interface orientation is incorrect (`in_dev` should face the subscribers). Check:

```

grep -A 7 "109.234.130.131" /var/log/dpi/fastdpi_stat.log | more

```

Outgoing:

```

[STAT ][2014/10/30-19:25:16:441786] HTB : Statistics
(IP=109.234.130.131) dscp=7, if 'dna2' :
      DSCP_actual stats Rcvd: [358187060 bytes][47.73
Mbit/sec]
                                   [232589 pkts ][3,874.07
pkt/sec]
      Drop: [354236960 bytes][98.90 %]
            [230024 pkts ][98.90 %]
      Send: [0 bytes][0.00 Mbit/sec]
            [0 pkts ][0.00 pkt/sec]
      Esnd: [0 err_pkts][0.00 %]

```

Incoming > 0:

```

[STAT ][2014/10/30-19:25:16:441793] HTB : Statistics
(IP=109.234.130.131) dscp=0, if 'dna3' :
      DSCP_actual stats Rcvd: [1018 bytes][0.00 Mbit/sec]
            [10 pkts ][0.17 pkt/sec]
      Drop: [0 bytes][0.00 %]
            [0 pkts ][0.00 %]
      Send: [828 bytes][0.00 Mbit/sec]
            [9 pkts ][0.15 pkt/sec]
      Esnd: [0 err_pkts][0.00 %]

[STAT ][2014/10/30-19:25:16:441834] HTB : Statistics
(IP=109.234.130.131) dscp=7, if 'dna3' :

```

```
DSCP_actual stats Rcvd: [0 bytes][0.00 Mbit/sec]
                  [0 pkts ][0.00 pkt/sec]
Drop: [0 bytes][0.00 %]
      [0 pkts ][0.00 %]
Send: [3950100 bytes][0.53 Mbit/sec]
      [2565 pkts ][42.72 pkt/sec]
Esnd: [0 err_pkts][0.00 %]
```

Therefore, outgoing traffic is being limited, as indicated by the presence of drops, and incoming traffic is going through an alternative route and not subject to the rules loaded into SKAT.