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Troubleshooting

How to check the bandwidth allocation without nfsen

Please specify the setting below in the configuration file:

```
dbg_log_mask=0x01
```

reload the service:

```
service fastdpi reload
```

The output will be written to */var/log/dpi/fastdpi_stat.log*

```
Total :
      proto=20 ('rap' 38) {1/385:0/0}{1/172:0/0}
      proto=34 ('dns' 53) {2976/295842:0/0}{2976/471359:0/0}
      proto=56 ('http' 80) {63349/8292468:0/0}{40178/23869035:0/0}
      proto=82 ('pop3' 110) {11/1051:0/0}{14/4438:0/0}
      proto=94 ('ntp' 123) {8/912:0/0}{8/912:0/0}
      proto=336 ('https' 443)
{13609/2688675:0/0}{15298/15473511:0/0}
      proto=482 ('http-alt' 591) {16/1392:0/0}{8/720:0/0}
      proto=678 ('cap' 1026) {2/190:0/0}{0/0:0/0}
      proto=679 ('solid-mux' 1029) {6/516:0/0}{0/0:0/0}
      ...
      proto=1091 ('ies-lm' 1443) {12/1100:0/0}{8/740:0/0}
      proto=1101 ('genie-lm' 1453) {1/86:0/0}{1/86:0/0}
      proto=1145 ('vlsi-lm' 1500) {6/516:0/0}{0/0:0/0}
      proto=1174 ('rap-service' 1530) {3/258:0/0}{0/0:0/0}
      proto=1180 ('ampr-inter' 1536) {1/86:0/0}{1/86:0/0}
      proto=1181 ('sdsc-lm' 1537) {2/343:0/0}{2/172:0/0}
```

Explanation:

- 1.internal protocol statistics index
- 2.protocol name
- 3.port number for protocol

direction subs → inet

- 4.number of packages
- 5.byte size ip total
- 6.dropped packages
- 7.dropped bytes

inet direction → subs

- 8.number of packages
- 9.byte size ip total

10.dropped packages

11.dropped bytes

Commandline for statistics output:

```
fdpi_ctrl stat -proto
```

How to check the class-divided bandwidth allocation

In the */etc/dpi/fastdpi.conf* configuration file set the option:

```
dbg_log_mask=0x4
```

Reload the service:

```
service fastdpi reload
```

In the */var/log/dpi/fastdpi_stat.log* file the output will be displayed according to the classes like following:

```
[STAT    ][2017/12/07-13:12:32:334249] HTB : Statistics dscp=2, if 'dna2' :
          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: [0 bytes][0.00 Mbit/sec]
                                [0 pkts ][0.00 pkt/sec]
          Esnd: [0 err_pkts][0.00 %]
[STAT    ][2017/12/07-13:12:32:334266] HTB : Statistics dscp=3, if 'dna2' :
          DSCP_actual stats Rcvd: [0 bytes][0.00 Mbit/sec]
                                [0 pkts ][0.00 pkt/sec]
          Drop: [0 bytes][0.00 %]
```

After the test being completed please disable `dbg_log_mask=0x4` option.