

# Table of Contents

- Configuration ..... 3
  - Configuring DSCP markup in IP/VLAN/MPLS headers* ..... 3
  - Configuring DSCP Inheritance and Conversion* ..... 3
    - Setting the priority conversion file ..... 4



# Configuration

## Configuring DSCP markup in IP/VLAN/MPLS headers

The option is configured or disabled by editing the configuration file `/etc/dpi/fastdpi.conf`.



This is a cold parameter which requires restart of service!

Enable prioritizing markup of a traffic on level:

```
set_packet_priority=1
```

- 1 - IP header
- 2 - VLAN/QinQ header
- 3 - MPLS header



`set_packet_priority=1` leads to patching of all packets that pass through DPI to set the priority in their headers. This operation takes a lot of resources. Therefore do not switch this flag on until you do not need to use these modified priorities on other network devices.

Configuration parameters from [Assignment of priorities](#) are sufficient for internal DPI usage.

## Configuring DSCP Inheritance and Conversion



Not compatible with `set_packet_priority` — he's a priority..

It is configured in the `/etc/dpi/fastdpi.conf` configuration file.

```
forward_packet_priority=<bitmask>
```

Bit masks:

- Depending on the direction:
  - 1 — conversion is applied to outbound traffic (subs→inet)
  - 2 — conversion is applied to inbound traffic (inet→subs)
- Depending on the objects of conversion:
  - 4 — Conversion between VLAN and IP
  - 8 — IP to IP conversion

If no conversion file is specified (no `/etc/dpi/dscpfrw.bin` file), VLAN↔IP conversion is performed

without conversion, i.e. the priority that was in the header (3 bits) is transferred to the other header (IP or VLAN) as it is.

If a conversion file is specified, a priority conversion is performed according to the rules specified in the file.

## Setting the priority conversion file

```
vi test.txt
in cs0 cs1
in cs1 cs2
in cs2 keep
in default cs3
out default keep
out 0x1 0x2
out 0x2 0x3
out cs0 0x3F

cat test.txt|forw2dscp test.bin
cp test.bin /etc/dpi/dscpfrw.bin
```