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# 3 Assigning priorities according to the protocols

The protocol priorities (assigned by system administrator) are loaded by DPI from the file **/etc/dpi/protocols.dscp**.

This file is created in two steps: first one creates a text file with the list of protocols and their priorities. Second, it is converted into an internal format by a special utility.

To apply the changes you need to the DPI configuration with the following command:

```
service fastdpi reload
```

## The file format of protocols and priorities list:

Each line contains the protocol name, then space, then dscp value. **For example:**

```
dns      0x3F
skype    drop
compressnet 010
ftp      keep
http     cs0
default  keep
```



[Full list of protocols.](#)

DSCP value is specified as [decimal](#), [hex](#) or [octal number](#) or as a [text abbreviation](#).

Keywords meaning:

- drop - indicates that packets must not be transmitted further. They must be dropped.
- keep - shows that priority must keep its current value (typically 0).
- default - means "for all remaining protocols" and allows to simplify significantly making the configuration file.

## To convert into an internal format:

```
cat my_dscp.txt|lst2dscp protocols.dscp
```

To move the settings into the work directory:

```
mv protocols.dscp /etc/dpi/protocols.dscp
```



Please use mv instruction! It is an atomic one. Do not use copy!