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Priority assignment depending on the directions

The direction is defined by a number of an autonomous system that sends or receives the traffic.  The direction priority specified for autonomous system (if defined) overrides the priority specified by protocol.  The direction priority specified for the traffic's source (if defined) overrides the priority specified for the destination.



One can change the IP list that belongs to an autonomous system and define an auxiliary autonomous system dynamically. It is described in the section [Configuring autonomous systems](#)

The direction dependent priorities assigned by the system's administrator, are loaded by DPI from the file `/etc/dpi/asnum.dscp`.



Comments in this file are not allowed!

This file is created in two steps. First, the text file with a list of autonomous systems and their assigned priorities is created. Next, this file is converted into an internal format by a dedicated utility.

File format of autonomous systems' list and their priorities:

Each line of the file contains: `AS_number <space> dscp_value`. **For example:**

```
64512    cs0
64512    local
64513    drop
64514    pass
64514    peer
```

- Here `cs0` - is [DSCP value](#).

Keywords meaning:

- `drop` – means that packets have not to be transmitted: they must be dropped.
- `pass` – the traffic of this autonomous system must go through DPI with no analysis and processing.
- `local` – the traffic of this system is treated as a local operator's one, see [BRAS L3](#)
- `peer` – the operator is in peering state with this system; used only for [Cache option](#)
- `term` – termination is allowed for this AS; see [BRAS: AS termination](#)
- `mark1` – Prioritize SNI detection in custom signatures for autonomous systems. Control from the cloud.
- `mark2` – QUIC traffic without SNI from this AS will be marked as `QUIC_UNKNOWN_MARKED`

Example:

- in asnum.dscp ASN 15169 mark as mark2
- in protocols.dscp mark QUIC_UNKNOWN_MARKED drop
- mark3 — reserved



local, term and peer do not effect the traffic's priority and are used for services. They are described there.

File convertation

To convert this file into the internal format and to place it into the working directory for DPI usage:

```
cat my_as_dscp.txt|as2dscp /etc/dpi/asnum.dscp
service fastdpi reload
```



This configuration is loaded on the run, with no need to restart the servic



[SSG v13+] it is now possible to add comments (#) and empty lines in input files of as2dscp utility.

Configuration for local traffic

To allow the transit of local operator traffic through the DPI without analysing and processing:

```
local_passthrough=1
```

To place the local operator traffic in a separate class:

```
local_dscp=0x38
```

dscp is set in a numerical form, the [reference table](#) provides correspondence between the numeric and letter symbols.



local_dscp setting takes precedence over the local_passthrough (if both are specified, the local_dscp is active)

Autonomous system traffic within its class [can be limited](#) regardless of the basic service plan limitation.