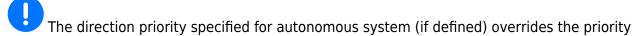
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Priority assignment depending on the directions

The direction is defined by a number of an autonomous system that sends or receives the traffic.



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



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.