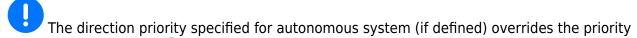
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4 Priority assignment depending on the directions

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 Cash option
- term termination is allowed for this AS; see BRAS: AS termination



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 service.

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.