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# General description



Our filtering solution helps the operator to save on development and support of a solution of his own. It has several advantages over a proxy server. Additionally, the operator gets the platform that enables him to save resources and get an income by providing new value added services.

Required components:

1. [Deep Traffic Analysis Platform \(DPI\)](#)

Advantages:

## 1) Easy to use:

- all rules are applied at one place: on DPI platform;
- the platform loads and applies rules from lists by itself.

## 2) Productivity:

- the list includes up to 4 billion URL. Its representation in memory is compressed;
- provides filtering of up to 2 million URL per second on one CPU core;
- traffic capacity up to 40 Gb per second per one CPU;
- unlimited scaling by simple installation of additional servers;
- propagation delay is less than 30  $\mu$ s.

## 3) Functionality:

- http and https support. Other protocols can be added;
- filtering for HTTP proxy is supported (including Opera Turbo/Mini);
- the software can consider or ignore the port number (i.e. block <http://www.example.com> and <http://www.example.com:8080> together or separately);
- does not depend on IP address changes;
- redirection instead of blocking is supported for http;
- incapsulation of VLAN, QinQ, MPLS is supported;
- support of asymmetric traffic routes, including processing of outbound traffic only;
- support of mirrored traffic;
- provides many other useful capabilities, unlike dedicated filtering solutions.

## 4) "Four nine's" reliability:

- works 24x7 with no breaks and service delays;
- uptime of the systems already installed is many months;
- the Bypass mode is supported to calm the operator.

## 5) Cost saving:

- DPI runs on a general purpose computer;
- support costs are almost zero - everything is automated;

- no need to waste money and time to develop and support own solution;
- a proxy hardware would cost much more to achieve the similar traffic capacity.