

Table of Contents

DPI platform update to version 2.1	3
DPI platform update to version 2.2	3
DPI platform update to version 2.3	4
DPI platform update to version 2.4	4
DPI platform update to version 2.5	5
DPI platform update to version 2.7	5

DPI platform update to version 2.1

Changes in version 2.1 Polar Bear¹⁾:

1. SORM-light capabilities are extended:
 1. traffic recording by protocols' list and/or ip/cidr;
 2. http protocol metadata are recorded.
2. Policing improvements: prioritization of the inbound traffic is fixed and HTB and TBF disciplines were added.
3. Integration with Radius server.
4. Dynamic IP subscribers support.
5. Built-in repository (UDR) to store subscribers' information is added.
6. Caching of youtube, vk, rutube and software upgrades is extended.
7. Detection in asymmetric traffic mode is improved.
8. Protection against DoS and DDoS attacks.

[Upgrade manual](#)

Check what's new in the [previous version](#).

DPI platform update to version 2.2

Changes in version 2.2 Polar Bear

1. SSL certificates support in "white" and "black" lists. This replaces IP for HTTPS protocol

WEB site's address becomes variable by wide usage of content delivery networks (CDN) and systems of geographical reservation and balancing based on DNS site's address. IP address may depend on time, coordinates of a subscriber, DNS server in use and other factors. In case of CDN the list of IP addresses may include hundreds or thousands of addresses, and other sites can be accessible through them.

This causes problems for Captive Portal. It requires an access by HTTPS to banks' sites or social networks - in case IP address is used to identify a site.

We offer the following solution.

The HTTPS site access is granted not by its IP but by its SSL certificate name. This certificate is made by trusted companies. The name on it can be checked by browser in page "properties". You use this name in "white" or "black" lists - and DPI checks the certificate and grants or rejects an access based on it.

1. Support of subscribers having several IPs
The operator provides a channel of the fixed width and a set of IPs to a subscriber (typically a company). The latest can use these resources as he likes.
You can reserve any number of IP addresses for any subscriber. And these IPs may be arbitrary, not a block..
2. Two new kinds of netflow
 1. netflow for billing: it is used for billing. Is generated for subscribers with plans that require this information. Is aggregated by subscribers and traffic classes. Traffic classes allow to

count protocols or their groups separately in billing. Aggregation and selectivity by subscribers dramatically reduce an amount of data transferred and processed for billing purposes.

2. complete and detailed netflow for studies SORM tasks

Netflow export from DPI allows to reduce the load to other, typically more expensive, equipment.

3. Protocol signatures are updated. The quality and percentage of traffic detection is improved.

[Upgrade manual](#)



Do not update Linux kernel to the latest version kernel-2.6.32-431.29.2. This kernel is not binary compatible with Kernel ABI. The network driver can not be loaded after this update. In case you made this update - please configure grab loader to load the previous version while solving the problem²⁾.

Check what's new in [previous version](#).

DPI platform update to version 2.3

Changes in version 2.3 Polar Bear:

1. Bug fix: policing configuration changes for subscribers having several IPs did not work.
2. Netflow shaping was added to avoid losses on weak collectors.

[Update manual](#)



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Check what's new in [previous version](#).

DPI platform update to version 2.4

Fixes in version 2.4 Polar Bear:

1. Bug fix: a mistake in subscriber's policing initialization may lead to a crash and restart of the main process.

[Update manual](#)



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you made this update - please configure grab loader to load the previous version while solving the problem⁴⁾.

Check what's new in [previous version](#).

DPI platform update to version 2.5

Changes in version 2.5 Polar Bear:

1. The bug in flow end time while forming full netflow was fixed.
2. Configuration parameters active and inactive timeout were added to help forming full netflow.
3. The information on stand-alone ASN systems was updated.

[Update manual](#)

To check the currently installed version:

```
yum info fastdpi
```



Do not update Linux kernel to the latest version kernel-2.6.32-431.29.2 or above. This kernel is not binary compatible with Kernel ABI. The network driver can not be loaded after this update. In case you made this update - please configure grab loader to load the previous version while solving the problem⁵⁾.

Check what's new in [previous version](#).

DPI platform update to version 2.7

Changes in version 2.7 Polar Bear

1. Added DSCP/TOS for [for directions \(by ASN\)](#)
2. DSCP/TOS 'pass' parameter for bypass transit traffic
3. Cloud blacklist service for [Byelorussia](#)
4. Filtering PPTP/GRE/L2TP in out-of-line mode
5. Torrent control by HASH value (for CACHE-server)
6. Improved detection for ciphered torrents
7. Internal ASN database renewed

[Update manual](#)

To check the currently installed version:

```
yum info fastdpi
```



Do not update Linux kernel to the latest version kernel-2.6.32-431.29.2 or above. This kernel is not binary compatible with Kernel ABI. The network driver can not be loaded after this update. In case you made this update - please configure grub loader to load the previous version while solving the problem ⁶⁾.

Check what's new in [previous version](#).

¹⁾

Version 2.0 was released before the Winter Olympic Games 2014 and named after one of the Olympic symbols. This version was distributed among limited set of customers. The next version 2.1 is corrected based on the experience.

²⁾ ³⁾ ⁴⁾ ⁵⁾ ⁶⁾

Set the parameter default=1 in the file /etc/grub.conf