Содержание

Update guide

> ⚠ Starting from version 12.0, DPI is supported **only** on CentOS 8.x and veos.

Preparation for update

- Make sure that the DPI configuration and dependent services (pcrf, radius) are valid.
- Check the currently installed version:

```
yum info fastdpi
```

- If CentOS 8.x is used, **once** switch repositories to vault:

```
sed -i -e '/^mirrorlist=http:\/\///d' -e 's/^#
*baseurl=http:\/\/mirror.centos.org/baseurl=http:\/\/vault.centos.org/'
/etc/yum.repos.d/CentOS-*.repo
```

- If there are dependency issues or the update cannot be found, run:

```
yum clean all
```

Special operating conditions

For virtual machines, old processors (approximately before 2009), and old amd processors (before ryzen):

Before updating, run:

```
touch /etc/dpi/noprioadj
```

In this case, DPI will start with a normal (non-realtime) priority, which reduces cpu (sys) load but may slightly increase latency.

DPI update

> ⚠ Starting with version 14.0, UDR is divided into UDR and SDR. The division occurs automatically when the version is updated.

- Main version update:

```
yum update fastdpi
```

- Installation of a test (beta) version:

```
yum --enablerepo vasexperts-beta update fastdpi
```

> If the `module yaml error` occurs during update, update the module:
>
> ```
> dnf upgrade libmodulemd
> ```

Features of updating in a distributed installation

If the SSG (fastdpi) and PCRF (fastpcrf) modules are installed on different physical or virtual servers, two conditions must be met:

1. **Uniform software version:**
   Ensure that the same versions of the fastdpi and fastpcrf packages are installed on both servers. Version mismatches between SSG and PCRF can lead to errors.
2. **Restart sequence:**
   Processes must be restarted in the order specified below to restore the connection correctly. Procedure for a distributed scheme:
   1. On the SSG server, stop the DPI service:

      ```
      service fastdpi stop
      ```

   2. On the PCRF server, restart the PCRF service:

      ```
      service fastpcrf restart
      ```

   3. On the SSG server, start the fastdpi service:

      ```
      service fastdpi start
      ```

This order ensures that all services are started correctly.

Service restart

After updating or changing the version, **be sure** to restart DPI:

```
service fastdpi restart
```

If PCRF and/or radius are used, they must also be restarted (only with a valid configuration):

```
service fastpcrf restart
```

```
service fdpi_radius restart
```

Recommended PCRF restart order:

```
service fastdpi stop
service fastpcrf restart
service fastdpi start
```

Operating system update

> ⚠️ Do not update the linux kernel version and kernel-dependent utilities.

- For CentOS 8.x:

  ```
  yum update
  ```

Version rollback

- Example rollback to version 14.0:

  ```
  yum downgrade fastdpi-14.0 fastpcrf-14.0 dpiutils-14.0 fastradius-14.0
  ```

- Example rollback to version 12.4:

  ```
  yum downgrade fastdpi-12.4-0 fastpcrf-12.4-0 dpiutils-12.4-
  fastradius-12.4-0
  ```

After rollback, service restart is required:

```
service fastdpi stop
service fastpcrf restart
service fastdpi start
```

Important notes

- Customers using bras functionality must take changes into account when upgrading to new versions.
- Updating the linux kernel may break binary compatibility with kernel abi and cause issues with network driver loading.
- If the kernel was updated, temporarily configure booting the previous version via grub by setting the required `default` parameter value in the `/etc/grub.conf` file.