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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.