# Содержание

# Test version installation

## Changes in version 13.1 BETA1

1. [BRAS] Control of subscriber activity using unicast ARP Request. Previously, bcast ARP Request was used, which is not optimal for the network. [Description](Description)
2. [CLI] Fixed: help() for IPv6 addresses in the `subs prop show` command
3. [Router] Fixed: port selection for recording in through LAG. If LAG passes through fastDPI, then when selecting a port for recording with TAP, it is necessary to consider not only the Link Up/Down state of the port itself but also the Link Up/Down state of the second bridge leg for this port
4. [Router] Fixed: NAT profile subnet announcement upon addition
5. [Router] Added CLI command `router vrf dump`. The command displays the list of VRFs set in the system and their properties.
6. [Router] ARP management. [Description](Description)
7. [BRAS][CLI] Fixed parsing error of the `subs prop del` command parameters, which caused the inability to delete properties by IP with the error

   ```
   ERROR: Result code=9: No subscriber IP address
   ```

8. [PCAP] Fixed: PCAP file rotation upon reload

## Changes in version 13.1 BETA2

1. [BRAS][DHCP] Added CLI command `dhcp disconnect`. This is a CLI analogue of CoA Disconnect. The disconnection mode is set by the `bras_dhcp_disconnect` option.
   1. `dhcp disconnect all` - disconnect all DHCP sessions
   2. `dhcp disconnect [ mac=X | ip=X ]` - disconnect the specified session
2. [BRAS] Fixed: sending L3 reauth for L2 subscriber in advance, without waiting for session timeout
3. [BRAS][DHCP] Added the number of sessions closed due to inactivity (SHCV) to the `dhcp show stat` CLI command
4. [BRAS][DHCP] Added: SHCV (Subscriber Host Connectivity Verification) — control of DHCP subscriber activity. [Description](Description)
5. [LAG] Fixed: failure to reset the array when building a new list of active ports. The error leads to fastDPI crash (array overflow and memory corruption)
6. [Router] Fixed: do not consider term by AS when announcing NAT subnets. The `term_by_AS` mode applies to subscribers, not to NAT profiles, so it should **not** be considered when announcing the NAT subnet

## Changes in version 13.1 BETA3

1. [DPI][BRAS] Global code refactoring - discontinued support for `pf_ring`
2. [DPI] Added service 19 - DNS response substitution. [Description](Description)
3. Changed the minimum PCAP file size to 100 MB. [Description](Description)
4. Improved DROP event tracing
5. [BRAS] Added: ARP Proxy for known routes (router mode only). A new flag has been added to

the `bras_arp_proxy` option - 0x0004. [Description](#)

## Changes in version 13.1 BETA4

> ⚠️ Clients using the Router are advised not to install version 13.1 BETA4 due to a discovered bug.
> The bug is fixed in version 13.1 BETA5.

1. [BRAS][PPPOE] Separation of PPPoE options into PPP and PPPoE options
2. [BRAS] Fixed: recalculation of the checksum in some cases when changing the ICMPv6 packet
3. [LAG] Added error logging "no mbuf" when sending LACP
4. [Engine][DPDK] Increased the number of `mbuf` in `selfgen mempool` if the router is enabled: if the router is disabled: `mempool size=512 * number_of_slaves_per_cluster`, if the router is enabled: `mempool size=8 * 1024 * number_of_slaves_per_cluster`
5. [BRAS][DHCP] Fixed: repeated SHCV triggering on an already "closed" record. With some correct values of the `bras_dhcp_disconnect` option, the DHCP session does not actually close, leading to repeated SHCV algorithm triggering for this session. This is expressed as a monotonic increase in the 'SHCV: session closed by inactivity' counter in the `dhcp show stat` CLI command.
6. Changed: tracing in `vdpi_new_flow_nat_ipv4` is always displayed
7. Fixed: depending on the value of the `nat_exclude_private` parameter, the pair CHECK_AS_LOCAL or CHECK_AS_PEER is additionally checked for AS with local interconnect
8. [Radius] Discontinued support for `pf_ring`

## Changes in version 13.1 BETA5

1. [Router] Fixed packet interception order from the general processing pipeline
2. [BRAS] Fixed an error in intercepting and processing ICMPv6 packets, leading to formation of a crust
3. Fixed erroneous appearance of an ERROR level message for some `fdpi_ctrl` requests
4. The list and filling of AS for IPv4 can be performed dynamically during reload or from the cloud (setting `asnum_source=0(default),1,2,etc` similar to `federal_black_list`)
5. Fixed: incorrect parsing of TLS(SNI) in case multiple 'ALPN Protocol' are specified

## Update instructions

You can check the current installed version with the command below

```
yum info fastdpi
```

If you have CentOS 6.x or CentOS 8.x installed, then switch the repository once with the command:

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

and then update as usual.

To install the test version, you should issue the following command:

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

Downgrade to 13.0:

```
yum downgrade fastdpi-13.0 fastpcrf-13.0
```

⚠ After an update or version change, a restart of the service is required.