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1. [BRAS] DHCP-Dual support. [Description](#)
2. [BRAS] Support for L2TP termination. [Description](#)
3. [DPI] Migration to DPDK 24.11, support for new NICs (Intel E830 200G, Intel E610, Napatech SmartNIC). [Description](#)
4. [CLI] Added support for subs_id in commands: dhcp show, dhcp reauth, dhcp6 show, dhcp6 reauth, and dhcp disconnect. [Description](#)
5. [DPI] New protocols added: AGORA_STREAMS(49314), AZAR_CALL(49315), WECHAT_CALL(49316), TEAMS_CALL(49317). [List of protocols](#)
6. [DPI] Improved support for LINE_CALL, VYKE_CALL protocols. [List of protocols](#)
7. [DPI] Fixed smartdrop behavior
8. [DPI] Added validation for complex protocols. [List of protocols](#)
9. [DPDK] Increased the maximum number of dispatchers to 32. [Description](#)
10. [IPFIX/Netflow] Added the ability to change IPFIX/Netflow parameters without restarting fastDPI using the ipfix_reserved parameter. [Description](#)
11. [FastRadius] It is now possible to set both bind_ipv6_address and bind_ipv6_subnet. If the Framed-IPv6-Prefix has a /128 mask, it is not checked against the bind_ipv6_subnet restriction. [Description](#)
12. CLI command dev info now includes the name of the LAG that the port belongs to. [Description](#)
13. [PCRF][PPP][Framed-pool] Added: DHCP option Client-Id now includes tunnel-IP as part of the subscriber ID. For more details, see sections [IPv4 Pools Support](#) and [IPv6 pools support](#)
14. [IPFIX] Message aggregation added for IPFIX streams: FullFlow/DNS/META/NAT
15. [IPFIX] Added parameter ipfix_mtu_limit to restrict maximum message size for IPFIX UDP packets. Description: [ClickStream export Setup](#), [Full NetFlow export format](#)
16. [IPFIX DNS] New elements added to IPFIX DNS: 224 (ipTotalLength) and 43823:3206 (DNS transaction id). [Description](#)
17. [VRRP] Fixed proper handling of the vrrp_enable option change
18. [BRAS][PPP] PPP session key is now compound: l2subs_id + tunnel-IP. For PPPoE sessions, tunnel IP = 0. CLI commands that use subs_id as a key (subs prop show, l2tp show session, l2tp term, etc.) may now return multiple entries with the same l2subs_id. [Description](#)
19. [DPI] Added cloud protocols with identifiers 55296..58367
20. [IPFIX] Fixed IPFIX exporter reinitialization bugs
21. [BRAS][subs_grooming] Fixed potential crash due to race condition during fastDPI shutdown
22. [CLI] Added commands to display mempool properties and statistics

```
hal mempool props
hal mempool stat
```

DPDK must be built with statistics collection enabled to display mempool stats

23. [BRAS][DHCP] Fixed crash when parsing Framed-Pool Renew response if it contains no DHCP options
24. [PCRF][Acct] Fixed: Interim-Update sending is now disabled when Acct-Interim-Interval = 0 is explicitly set in the RADIUS response. For more details, see sections [acct-interim-interval](#), [PPPoE Radius Access-Request](#)
25. [VASE_CLI] Created a unified CLI for managing DPI, BRAS, DHCP (KEA), ROUTER (BIRD) with support for authorization and command logging via TACACS (VEOS 8.x required). [Description](#)

- 26. [SNMP] Created a module for monitoring system components via SNMP
- 27. [DPI] Added DOQ 49318 protocol (DNS-over-QUIC)
- 28. [Router] Announcing subscriber white addresses for 1:1 NAT individually and after authentication. [Description](#)
- 29. [PCRF] Added support for service 19 "DNS spoofing", profile required. [Description](#)
- 30. [DPDK] Added `dpdk_engine=6 (mqr-x-bridge)` — number of RSS dispatchers per bridge. [Description](#)
- 31. [DPDK] Removed dedicated mempools. The `fastdpi.conf` option `dpdk_emit_mempool_size` is deprecated and no longer used.
- 32. [VLAN-Rule] Moved vlan group data from UDR to SDR. Global rules for `vlan drop/pass/hide/permit` set by the previous CLI command `vlan group` were converted and moved from UDR to SDR, with removal from UDR. [Description](#)
- 33. Up to version 14, only one built-in database UDR (User Data Repository) is used, intended for permanent storage of data about services, policings, and other FastDPI settings. Starting from Version 14, UDR is split into UDR and SDR. The split occurs automatically during version update.
SDR (System Data Repository) is intended for storing FastDPI settings not related to subscribers. It can be considered that SDR is an extension of `fastdpi.conf`. No special activation of SDR is required — the necessary `.mdb` files are created automatically when the corresponding mode is enabled in `fastdpi.conf`.
- 34. [VLAN] VLAN rules — added CLI commands. [Description](#)
- 35. [IPv6] Added direction detection in combined traffic (IN+OUT on one port) based on the local flag for IP addresses. Enabled via `combined_io_direction_mode` option
- 36. [BRAS] Fixed compatibility with the old format of service 18, where there were fewer protocols and both fields in the profile needed to be filled
- 37. [DPI] Lowered detection priority for `telegram_tls`
- 38. [DPI] Improved detection of WECHAT and WECHAT_CALL
- 39. [BRAS][Framed-Route] Fixed: possible crash when freeing memory
- 40. [BRAS] Refactored PCRF connectivity: in the new implementation, all connections are equal; an error on any triggers reconnection of all connections and a switch to another PCRF. Added CLI commands:
 - 1. `pcrf connect show` — show current status and accumulated statistics for PCRF connections.
 - 2. Force connection to the specified PCRF `pcrf connect switch [<pcrf_index>]`, where `<pcrf_index>` is the index of the connection line in the `auth_server` parameter. If `<pcrf_index>` is not specified — defaults to 0. [Description](#)
- 41. [IPFIX DNS] Added the ability to send DNS MX responses via IPFIX. Enabled by setting bit 3 (4) of the `ajb_save_dns` parameter. [Description](#)
- 42. [DPI] Added FakeTLS protocol (49319) with validation
- 43. [BRAS][DHCP] Changed: sliding window algorithm for rate limit
- 44. [BRAS] Fixed: time comparison error when loading `ip_prop` from UDR
- 45. [VLAN-Rule] Added support for 'any' instead of '*' when describing VLAN range. [Description](#)
- 46. [DPI][LOG] Messages about insufficient SSL parsers are written to the slave log not for every event, but at a frequency of 1/50000.
- 47. [DPI] Added protocols ZALO_CALL(49320) and VK_CALL(49321)
- 48. [DPI] Fixed blocking in hard mode for SSL
- 49. [Acct] Added attribute VASExperts-Service-Type. Radius acct start/interim/stop sends the authorization type in the VASExperts-Service-Type attribute. [Description](#)
- 50. [CLI] Added: `stat flow ip6` command to display IPv6 flow statistics. [Description](#)
- 51. [CLI] Added: `stat flow ip4` command to display IPv4 flow statistics. Analogous to the output

in `fastdpi_stat.log`. [Description](#)

- 52. [IPFIX] Fixed ExportTime formation error in IPFIX Fullflow
- 53. [CLI] Added `stat netflow` command. Displays general statistics for Netflow/IPFIX (same as in `fastdpi_stat.log` under the "Statistics on NFLW_export" section). [Description](#)
- 54. [DNS] Added support for substitution/blocking/dropping of DNS requests A, AAAA, MX, HTTPS. [Description](#)
- 55. [CLI] Added `stat firewall` command. [Description](#)
- 56. [DPI] Added BIGO_CDN protocol (49324)
- 57. [DPI] Added UDP support for BIGOTV
- 58. [PCRF][L2TP] Fixed: NAS attributes for L2TP during authorization
- 59. [BRAS][L2TP] Fixed: data race when closing sessions
- 60. [DPDK] Removed deprecated rx channels settings and related checks
- 61. [IPFIX] Added configurable sending of drop octets/packets counters when generating IPFIX fullflow. [Description](#)
- 62. [PCAP] Added capability to save traffic of a specified vlan using the `ajb_save_vlan` parameter. [Description](#)
- 63. [DPIUTILS] Updated checknat utility. [Description](#)
- 64. [DPIUTILS] Updated dns2dic utility with domain blocking support. [Description](#)
- 65. [BRAS][L2TP] Fixed: data race during tunnel creation
- 66. [Router] Fixed: interception and diversion of IPv6 packets to tap interfaces. Link-local addresses were not diverted to tap, even if explicitly specified in the `router.subnet6` settings.
- 67. [BRAS][L2TP] Fixed: length field in L2TP header for data packets. According to RFC, the len field in L2TP header is optional for data packets. Some L2TP client implementations do not understand data packets with the len field in the L2TP header. This fix adjusts FastDPI's behavior: if data packets from the subscriber arrive without the len field, then SSG will also send data packets without this field. If data packets from the subscriber contain the len field, SSG will include it as well.
- 68. [BRAS] Fixed: sending commands from the `pending_queue`. In some cases (e.g., during state transitions of the `pcrf monitor initial → connected`), sending commands from the `pending_queue` was not triggered, which caused commands to "hang" in the queue indefinitely (until reconnection due to a socket error).
- 69. Fixed a recently introduced error (affecting betas 4.6 and 4.7) in the session lifecycle that leads to resource exhaustion over time; an operational update from these versions (or rollback) is recommended.