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Version v.1.25.12 (03.04.2024)

- Significantly reduced memory consumption through lazy loading. Especially relevant for those storing long-term data.

Version v.1.24.7 (14.02.2024)

- Support for receiving and storing DNS logs (raw and aggregated)
- Support for receiving and storing MPLS labels in raw logs; statistics available in aggregated logs
- Ability to receive and store all DSCP values (0-64)
- Optimization and acceleration of reports in clustered environments

Version v.1.19.1 (08.08.2023)

- New feature: ability to store up to three aggregated fullflow logs simultaneously with different aggregation periods
- Improvement: median RTT data collection

Version v.1.18.1 (26.06.2023)

- New feature: fullflow raw log compression
- Bug fixes

Version v.1.17.3 (21.03.2023)

- New feature: Kaspersky feeds
- Bug fixes

Version v.1.14.1 (06.09.2022)

- New feature: OpenCellID service

Version v.1.12.9 (20.10.2021)

- Updated ClickHouse version to 21.10+
- Added console statistics command — statdpi
- Added domain database

Version v.1.11.3 (32.08.2021)

- Cluster support
- Sharding support
- Custom protocol support

Version v.1.10.7 (05.08.2021)

- Updated ClickHouse version to 21.7+

Version v.1.9.0 (28.12.2020)

- Receiving Netstream NAT from third-party systems into QoE Stor with automatic IP-LOGIN correlation in NAT logs

Version v.1.8.1 (12.11.2020)

- Flexible aggregation setup for fullflow and clickstream in QoE Stor

Version v.1.7.3 (15.10.2020)

- Ability to store data on HOT and COLD disks
- Receiving and storing NAT logs. Added option to generate NAT logs from fullflow. Flexible aggregation period and field list configuration
- Receiving and storing GTP logs

Version v.1.6.0 (14.09.2020)

- Option: replace Login field value with vchannel field value
- Bug fixes

Version v.1.4.2 (01.06.2020)

- Bug fixes

Version v.1.4.0 (04.05.2020)

- Compatibility with ClickHouse 20.3
- Installation support for CentOS 8

Version v.1.3.8 (09.04.2020)

- Updated protocol dictionaries
- Added automatic AS dictionary updates

Version v.1.3.6 (25.11.2019)

- Updated protocol dictionaries

Version v.1.3.5 (06.11.2019)

- Fixed behavior of local subnet dictionary (extra addresses were included)
- Adapted clickstream loading for proper operation with dpiui2-2.8.2

Version v.1.3.4 (25.10.2019)

- Locked parameter added to clickstream

Version v.1.3.3 (15.10.2019)

- Updated ClickHouse to version ≥ 19.15
- Improved log loading and processing method
- Prepared database for raw log analysis
- Combined Clickstream and NetFlow logs

Version v.1.1.1 (06.09.2019)

- Updated ClickHouse to the latest version
- Added asnum_exclude_dic, subnets_exclude_dic dictionaries and corresponding filtering mode

Version v.1.0.9 (21.02.2019)

- Fixed incorrect recognition of backbone switches
- Updated protocols_dic dictionary

Version v.1.0.7 hotfixes (24.12.2018)

- Added re-export support for IPFIX in receiver configs: IPFIX_FULLFLOW_EXPORT and IPFIX_CLICKSTREAM_EXPORT

Version v.1.0.6 hotfixes (04.12.2018)

- Fixed bugs in subnets_local_dic dictionary (e.g., "A call to function range would produce 12884901882 array elements")
- Fixed receiver configuration for ipfixreceiver2 (FileWriter queue is full. Records dropped.)

Version v.1.0.5 (03.12.2018)

- Added host category dictionaries
- Switched to ipfixreceiver2



1. Before updating, don't forget to update the installation script (see the Installation section). Use the installation script for upgrades.
2. After updating, verify that the receivers have started (check with ``netstat -nlpa | grep 1500`` and ``netstat -nlpa | grep 1501``). The sockets should be listening on ipfixreceiver2.
3. If receivers did not start, run the script: ``sudo sh /var/qoestor/backend/qoestor-config.sh``

Version v.1.0.4 (02.11.2018)

- Introduced pre-aggregation, reducing NetFlow volume by 6–7 times and Clickstream by 3 times
- Added dictionaries: subscribers, switches, autonomous systems (AS), crc
- Added traffic direction detection and subscriber filtering (distinguishing host IPs and subscriber IPs) by AS and CIDR. This option is relevant when SSG DPI is installed on a mirror.

This QoE Stor version works with DPIUI2-2.1.5+.



If you installed version 1.0.0, you must delete the database before installing the new version (complete incompatibility). Run the command:

```
clickhouse-client --query="drop database qoestor"
```

Version v.1.0.0 (20.09.2018)

- Created new module — QoE Stor