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Searching for subscriber IP address statistics

For this functionality, the following **components** are required:

1. [QoE Stor module](#)
2. [SSG DPI management interface](#)



For this functionality, the following **licenses** are required:

1. SSG: [CG-NAT — network address translation and statistics export in IPFIX format](#)
2. QoE: [NAT Flow statistics collection, compression, and custom filters.](#)

Depending on the subscriber type, a different dataset is collected:

- For a **public IP address**, it is sufficient to export Full NetFlow to QoE Stor — [Configuring Full NetFlow Export in IPFIX Format](#).
- For a **private IP address**, NAT Flow data about translations must also be collected — [NAT Flow configuration](#).

Data types

- **Raw (unaggregated) logs** — contain the full set of IPFIX fields, including timestamps, IP addresses, ports, and more. These logs allow second-by-second analysis.
- **Aggregated logs** — summarized data used for reports such as Top Subscribers or Top Hosts. Aggregation groups events over time (for example, every 15 minutes) and omits unnecessary details such as ports, producing data suitable for interval-based analysis.

Raw logs are used for detailed analysis, while aggregated logs are used for reporting.

In this scenario, data lookup is based on aggregated data. Initially, SSG exports raw data to QoE Stor; by default, aggregation is performed every 15 minutes. See details on changing the aggregation and re-aggregation interval: [Regregation of outdated aggregated fullflow logs](#).

Raw unaggregated data is available in the following QoE Analytics GUI sections:

1. *Raw full NetFlow* (default data retention — **2 hours**)
2. *Raw NAT Flow* (default data retention — **2 hours**), requires a QoE license

VAS Experts

Search

SSG control

PCRF control

QoE analytics

QoE dashboard

Netflow

Raw full netflow

Clickstream

Raw clickstream

GTP flow

Raw GTP flow

NAT flow

Raw NAT flow

DNS flow

QoE a

Period

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Aggregated statistics are available in the following QoE Analytics GUI sections:

1. *NetFlow* (default data retention — **14 days**)
2. *NAT Flow* (default data retention — **14 days**), requires a QoE license


VAS Experts

SSG control

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PCRF control

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QoE analytics

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QoE dashboard

Netflow

Raw full netflow

Clickstream

Raw clickstream

GTP flow

Raw GTP flow

NAT flow

Raw NAT flow

DNS flow

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Configuring data retention period

In the GUI: Administrator → GUI Configuration → Settings → QoE Stor → Database lifetime settings:

- For Raw Full NetFlow: *QoE Stor fullflow main log lifetime (in hours) (1).*
- For NAT Flow: *QoE Stor aggregated NAT log lifetime (in days) (2).*

The screenshot shows the 'Administrator > GUI configuration' page in VAS Experts. The left sidebar lists various configuration categories, with 'Administrator' expanded. The main area displays 'Settings' for 'QoE Stor: DB lifetime settings'. The settings are organized into sections: Common, Jobs intervals and periods, QoE Stor: DB (Clickhouse) connection, QoE Stor: Raw log aggregation settings, QoE Stor: DB lifetime settings, QoE Stor: Discs settings, SMTP settings, System, DB (MySQL) connection, UIr settings: System settings, UIr settings: Web rules lists, Push notifications settings, SSO authorization settings, Maps settings, VasCloud settings, Cluster settings, Backup settings, and Backup auto restoration settings.

Two settings are highlighted with red boxes and numbered:

- QoE Stor fullflow main log lifetime in hours (QOESTOR_FULLFLOW_MAIN_LOG_PARTITIONS_LIFE_TIME_HOUR) with a value of 2.
- QoE Stor NAT aggregated log lifetime in days (QOESTOR_NAT_AGG_LOG_PARTITIONS_LIFE_TIME_DAYS) with a value of 14.

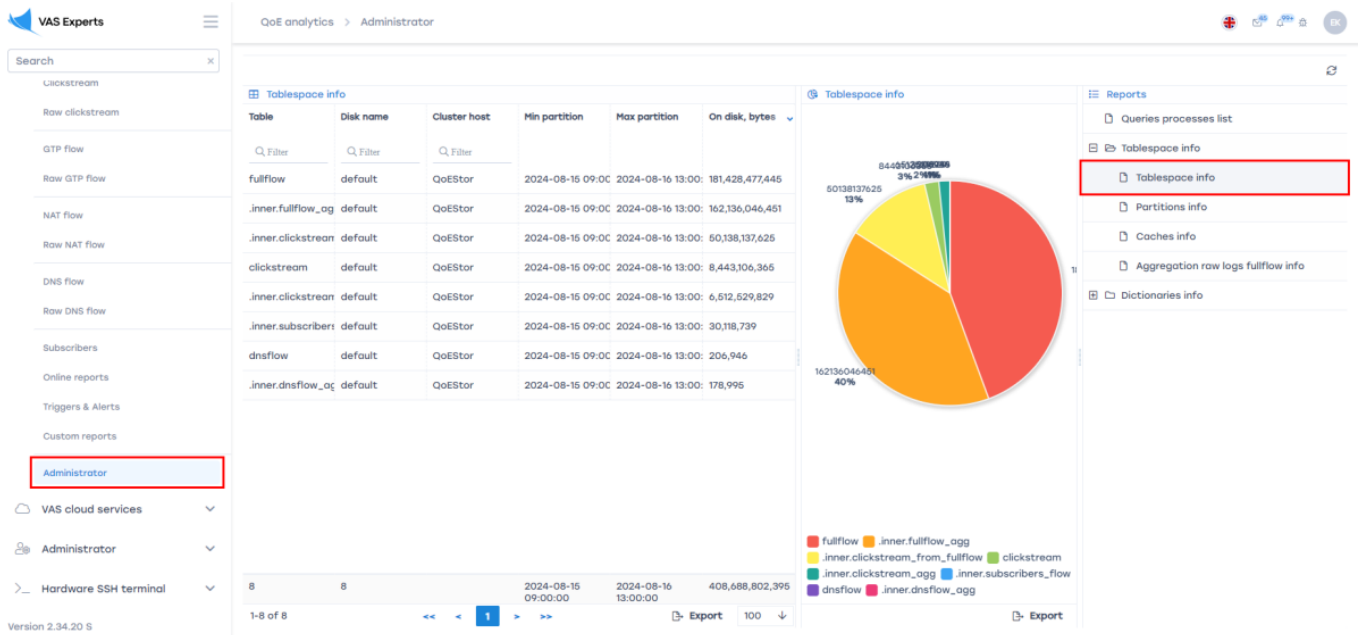
When increasing data retention, it is recommended to enable automatic deletion of old data when the disk is full: Administrator → GUI Configuration → Settings → QoE Stor → Disk Settings → Enable forced data relocation ... → select *Enable data deletion!* → Relocation coefficient for DEFAULT disk ... → set value *0.1*.

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Two settings are highlighted with a red box:

- Enable force moving data for DEFAULT disk (QOESTOR_FORCE_MOVE_FROM_DEFAULT_DISK) with a value of 0.1.
- Enable data removing!

You can check how much disk space logs occupy in QoE Analytics → Administrator → Reports → Table space information.



Searching for subscriber activity in the SSG GUI

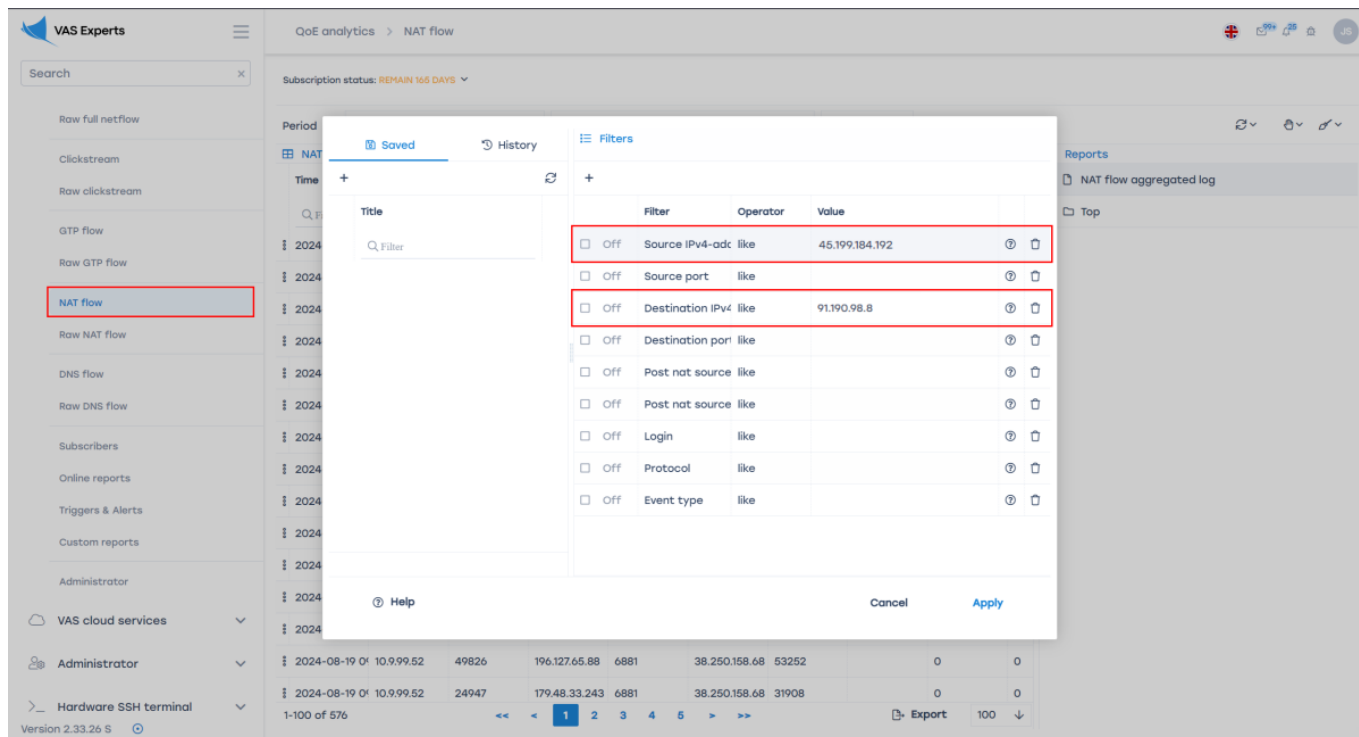
For a private IP address (NAT Flow section, QoE license required)



You can request a license directly from the GUI in this section by filling out the form, or by emailing sd@vas.expert.

Subscriber activity data becomes available after NAT log creation — see [NAT Flow configuration](#). In the GUI, go to QoE Analytics → NAT Flow. Then:

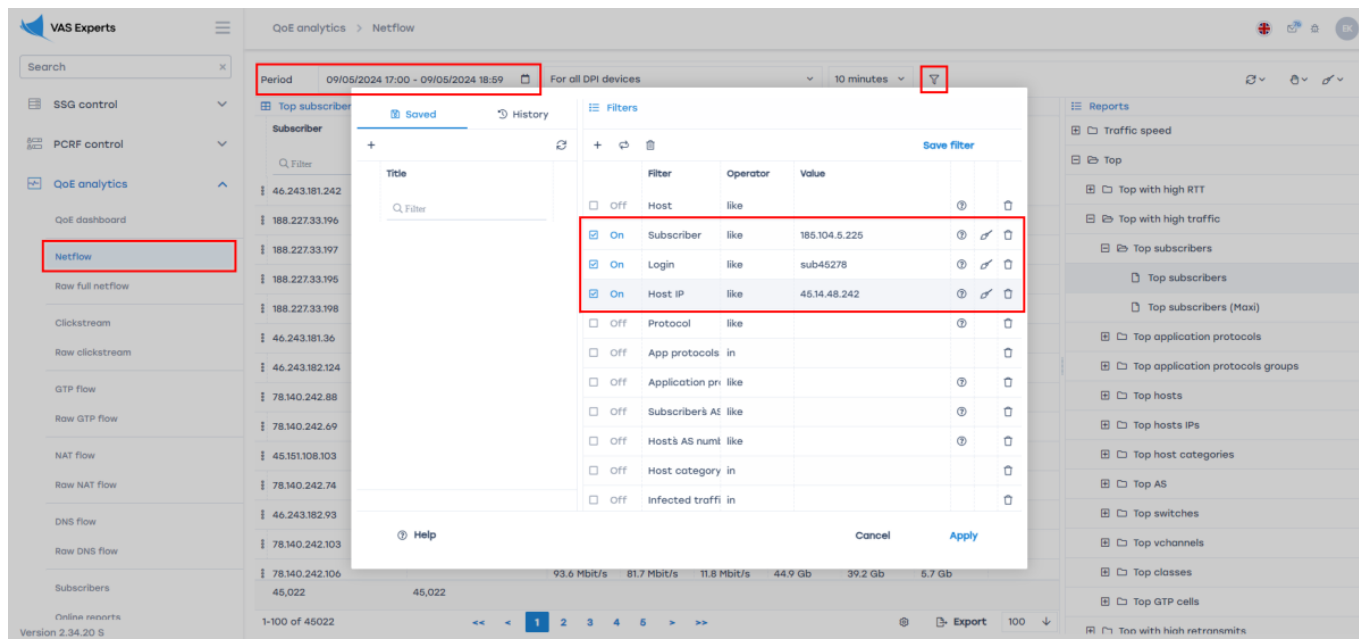
1. Select a time period
2. Enable filters “Source IPv4 address” and “Destination IPv4 address” (check the boxes)
3. Set filter values and apply changes



For a public IP address (aggregated data, NetFlow section)

In the GUI, go to QoE Analytics → NetFlow. Then:

1. Select a period (**default retention is only 14 days!**)
2. Enable filters “Subscriber”, “Login”, and “Host IP” (check the boxes)
3. Set filter values and apply changes



For a public IP address (raw full NetFlow section)

In the GUI, go to QoE Analytics → Raw Full NetFlow. Then:

1. Select a period (**default retention is only 2 hours!**)
2. Enable filters “Source IPv4 address” and “Destination IPv4 address” (check the boxes)
3. Set filter values and apply changes

The screenshot displays the VAS Experts QoE analytics interface. The left sidebar shows the navigation menu with 'Raw full netflow' selected. The main panel shows the 'Raw full netflow' view with a period selector at the top (08/16/2024 11:22 - 08/16/2024 11:37) and a filter dropdown menu open. The filter menu shows a list of filters with checkboxes to enable or disable them. The filters are:

Filter	Operator	Value
Session ID	like	
Source IPv4-address	like	45.199.184.192
Source IPv6-address	like	
Source port	like	
Source AS number	like	
Destination IPv4-address	like	91.190.98.8
Destination IPv6-address	like	
Destination port	like	
Destination AS number	like	
Net protocol	like	
Application protocol	like	

The 'Source IPv4-address' and 'Destination IPv4-address' filters are checked and highlighted with red boxes. The 'Apply' button is visible at the bottom right of the filter menu. The background shows a list of flow records with columns for time, flow ID, and various metrics.