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Searching Subscriber Statistics by IP Address

To enable this functionality, the following **components** are required:

1. [QoE Stor Module](#)
2. [SSG DPI Management Interface](#)



The following **licenses** are required:

1. SSG: [CG-NAT — Network Address Translation and IPFIX Format Statistics Export](#)
2. QoE: [NAT Flow Statistics Collection, Compression, and Custom Filters](#).

The data set to be stored depends on the type of subscriber:

- For a public IP address, exporting Full NetFlow to QoE Stor is sufficient. [Configuring export in IPFIX \(Netflow 10\)](#)
- For a private IP address, additional NAT Flow data collection — translation information — is required. [NAT Flow Configuration](#)

Information is searched through aggregated data. Initially, SSG exports raw data to QoE Stor, and by default, aggregation is performed every 15 minutes. [More on changing aggregation and re-aggregation intervals](#).

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

1. *Raw Full NetFlow* (by default, data is stored for **2 hours**)
2. *Raw NAT Flow* (by default, data is stored for **2 hours**, QoE license required)

The screenshot shows the VAS Experts interface. On the left, a sidebar menu includes 'SSG control', 'PCRF control', 'QoE analytics' (highlighted), and 'QoE dashboard'. Under 'QoE analytics', a list of data sources is shown: 'Netflow', 'Raw full netflow' (highlighted with a red box), 'Clickstream', 'Raw clickstream', 'GTP flow', 'Raw GTP flow', 'NAT flow', 'Raw NAT flow' (highlighted with a red box), and 'DNS flow'. On the right, a 'QoE a' panel displays a table of aggregated statistics.

Period	
Subscr	Q Filt
46.243	188.22'
188.22'	188.22'
188.22'	188.22'
188.22'	46.243
46.243	78.140.
78.140.	45.151.1
78.140.	45,022

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

1. *NetFlow* (by default, data is stored for **14 days**)
2. *NAT Flow* (by default, data is stored for **14 days**, QoE license required)


VAS Experts

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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Q Filt

46.243

188.22

188.22

188.22

188.22

46.243

46.243

78.140.

78.140.

45.151.1

78.140.

45,022

Configuring Data Retention Period

In the GUI, go to Administrator → GUI Configuration → Settings → QoE Stor: DB lifetime settings:

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

Administrator > GUI configuration

Search

SSG control

PCRF control

QoE analytics

VAS cloud services

Administrator

Equipment

Users

Roles

Users actions log

GUI configuration

GUI logs

GUI update

QoE Stor configuration

QoE Stor logs

IPFIX-balancer configuration

IPFIX-balancer logs

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Save

Settings

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

Ulr settings: System settings

Ulr settings: Web rules lists

Push notifications settings

SSO authorization settings

Maps settings

VasCloud settings

Cluster settings

Backup settings

Backup auto restoration settings

QoE Stor: DB lifetime settings

QoE Stor cache lifetime in seconds (QOESTOR_CACHE_LIFE_TIME_SEC)

3600

QoE Stor main log lifetime in hours (QOESTOR_MAIN_LOG_PARTITIONS_LIFE_TIME_HOUR)

2

QoE Stor aggregated log lifetime in days (QOESTOR_AGG_LOG_PARTITIONS_LIFE_TIME_DAYS)

14

QoE Stor fullflow main log lifetime in hours (QOESTOR_FULLFLOW_MAIN_LOG_PARTITIONS_LIFE_TIME_HOUR)

2

QoE Stor fullflow aggregated log lifetime in days (QOESTOR_FULLFLOW_AGG_LOG_PARTITIONS_LIFE_TIME_DAYS)

14

QoE Stor clickstream main log lifetime in hours (QOESTOR_CLICKSTREAM_MAIN_LOG_PARTITIONS_LIFE_TIME_HOUR)

2

QoE Stor clickstream aggregated log lifetime in days (QOESTOR_CLICKSTREAM_AGG_LOG_PARTITIONS_LIFE_TIME_DAYS)

14

QoE Stor NAT main log lifetime in hours (QOESTOR_NAT_MAIN_LOG_PARTITIONS_LIFE_TIME_HOUR)

2

QoE Stor NAT aggregated log lifetime in days (QOESTOR_NAT_AGG_LOG_PARTITIONS_LIFE_TIME_DAYS)

14

QoE Stor GTP main log lifetime in hours (QOESTOR_GTP_MAIN_LOG_PARTITIONS_LIFE_TIME_HOUR)

2

When increasing the data retention period, it's recommended to enable the deletion of old data when the disk fills up: Administrator → GUI Configuration → Settings → QoE Stor: Discs settings → Select *Enable force moving data for DEFAULT disk* – choose *Enable data removing!* → Select *Move factor for DEFAULT disk* – set the value to 0.1.

Administrator > GUI configuration

Search

SSG control

PCRF control

QoE analytics

VAS cloud services

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Settings

Common

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QoE Stor: DB (Clickhouse) connection

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QoE Stor: DB lifetime settings

QoE Stor: Discs settings

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VasCloud settings

Cluster settings

Backup settings

Backup auto restoration settings

QoE Stor: Discs settings

Logs list to move to COLD disk (QOESTOR_LOGS_TO_MOVE_TO_COLD_DISK)

QoE Stor logs lifetime before moving to COLD disk, in hours (QOESTOR_LOGS_LIFETIME_BEFORE_MOVING_TO_COLD_DISK)

720

Days of week to COLD disk (QOESTOR_MOVE_OLD_PARTITIONS_TO_COLD_DISK_SCHEDULE_WEEK_DAYS)

Hours of day to COLD disk (QOESTOR_MOVE_OLD_PARTITIONS_TO_COLD_DISK_SCHEDULE_HOURS)

Enable force moving data for DEFAULT disk (QOESTOR_FORCE_MOVE_FROM_DEFAULT_DISK)

Enable data removing!

Move factor for DEFAULT disk (QOESTOR_FORCE_MOVE_FROM_DEFAULT_DISK_FACTOR)

0.1

Enable force moving data for HOT disk (QOESTOR_FORCE_MOVE_FROM_HOT_DISK)

Move factor for HOT disk (QOESTOR_FORCE_MOVE_FROM_HOT_DISK_FACTOR)

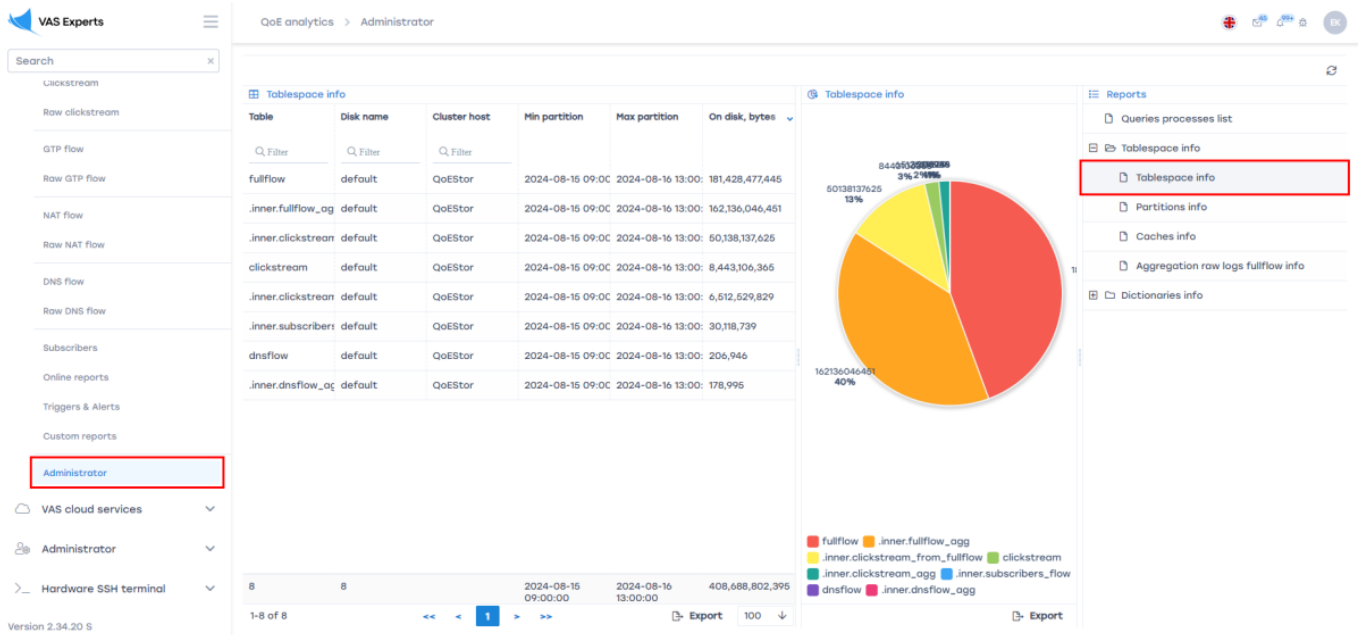
0.1

Enable force moving data for COLD disk (QOESTOR_FORCE_MOVE_FROM_COLD_DISK)

Move factor for COLD disk (QOESTOR_FORCE_MOVE_FROM_COLD_DISK_FACTOR)

0.1

You can find out how much disk space logs are using in QoE Analytics → Administrator → Reports → Tablespace info.



Searching for Subscriber Activity in the SSG GUI

For a Private IP Address. NAT Flow Section. QoE License Required



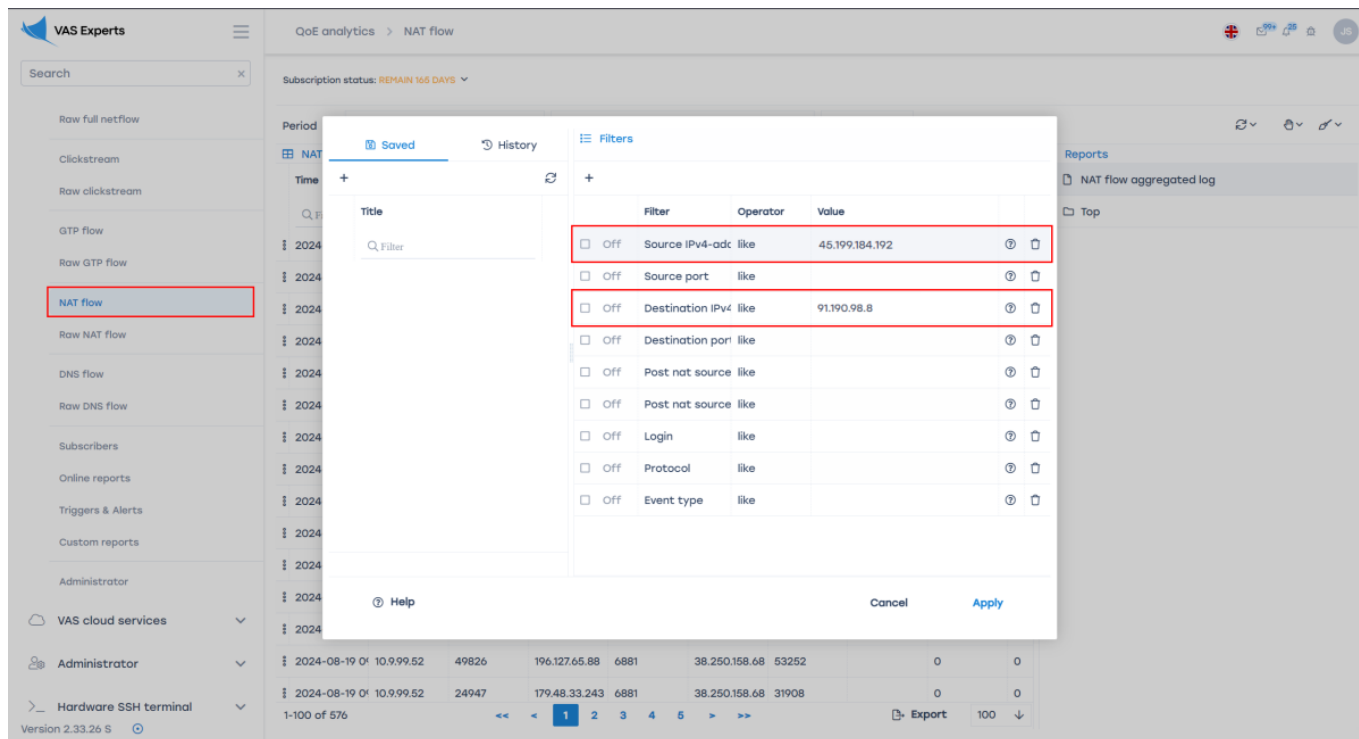
You can request a license from the GUI by filling out a form in the respective section or contact sd@vas.expert

The ability to view subscriber activity data appears after generating the NAT log — instructions [NAT Flow Configuration](#).

In the GUI, navigate to QoE Analytics → NAT Flow.

In the NAT Flow section, you need to:

1. Select the time period
2. Enable the “IPv4 source address” and “IPv4 destination address” filters (check the box)
3. Enter values for the enabled filters and apply changes

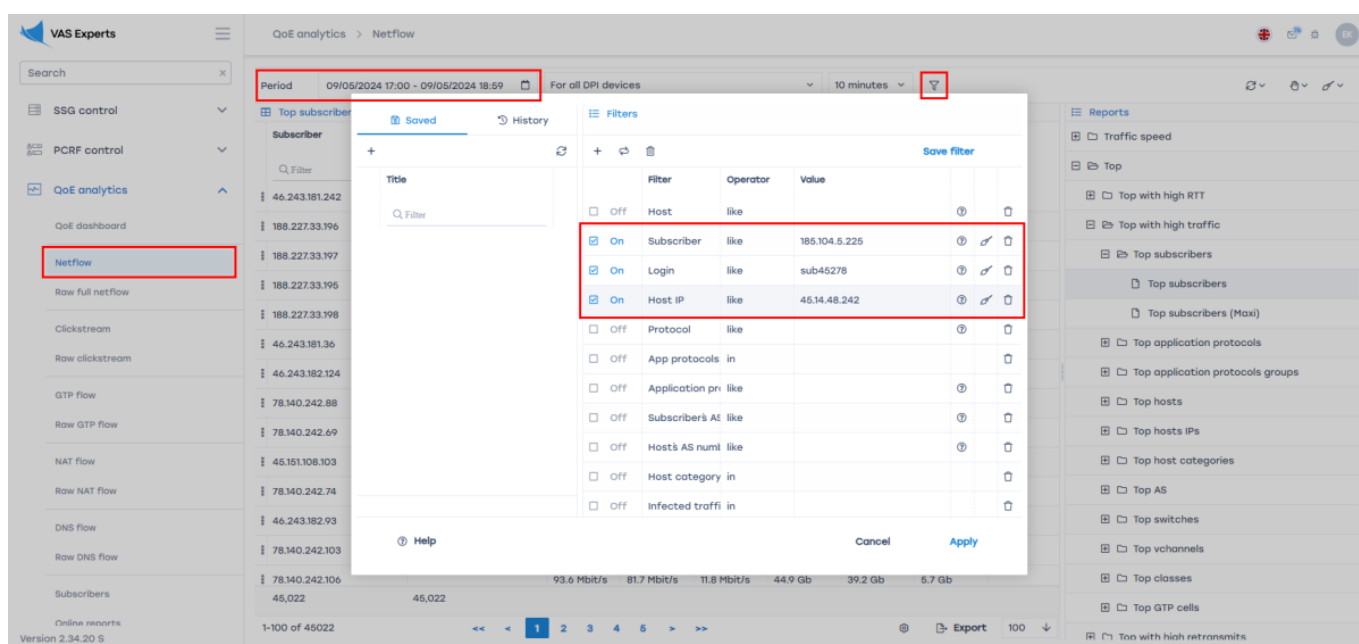


For a Public IP Address from Aggregated Data. NetFlow Section

In the GUI, navigate to QoE Analytics → NetFlow.

In the NetFlow section, you need to:

1. Select the time period (**by default stored for only 14 days!**)
2. Enable the “Subscriber,” “Login,” and “Host IP” filters (check the box)
3. Enter values for the enabled filters and apply changes



For a Public IP Address. Raw Full NetFlow Section

In the GUI, navigate to QoE Analytics → Raw Full NetFlow.

In the Raw Full NetFlow section, you need to:

1. Select the time period (**by default stored for only 2 hours!**)
2. Enable the “IPv4 source address” and “IPv4 destination address” filters (check the box)
3. Enter values for the enabled filters and apply changes

The screenshot displays the VAS Experts interface for configuring 'Raw full netflow'. The 'Period' is set to '08/16/2024 11:22 - 08/16/2024 11:37'. The 'Filters' dialog is open, showing a list of filters with checkboxes to enable or disable them. The 'Source IPv4-address' and 'Destination IPv4-address' filters are enabled (checked). The 'Source IPv4-address' filter has the value '45.199.184.192' and the 'Destination IPv4-address' filter has the value '91.190.98.8'. The 'Apply' button is highlighted.

Filter	Operator	Value
☒ On	Source IPv4-address	like 45.199.184.192
☐ Off	Source IPv6-address	like
☐ Off	Source port	like
☐ Off	Source AS number	like
☒ On	Destination IPv4-address	like 91.190.98.8
☐ Off	Destination IPv6-address	like
☐ Off	Destination port	like
☐ Off	Destination AS number	like
☐ Off	Net protocol	like
☐ Off	Application protocol	like