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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)

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

Top s

Subscr

Filter

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

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)

The screenshot shows the VAS Experts interface. On the left, a sidebar menu lists various analytics options: SSG control, PCRF control, QoE analytics (expanded), QoE dashboard, Netflow (highlighted), Raw full netflow, Clickstream, Raw clickstream, GTP flow, Raw GTP flow, NAT flow (highlighted), Raw NAT flow, and DNS flow. On the right, a table displays data for various flows. The table has columns for 'Period', 'Subscr', and 'QoE'. The data rows show values for different flows, with 'Netflow' and 'NAT flow' highlighted in the table.

Period	Subscr	QoE
Top s		
QoE	46.243	
QoE	188.22	
QoE	188.22	
QoE	188.22	
QoE	188.22	
QoE	46.243	
QoE	46.243	
QoE	78.140	
QoE	78.140	
QoE	45.151	
QoE	78.140	
QoE	45,022	

Configuring Data Retention Period

In the GUI, go to Administrator → GUI Configuration → Settings → QoE Stor: Database Lifetime Settings:

- For Raw Full NetFlow, select *Lifetime of fullflow QoE Stor log in hours* **(1)**.
- For NAT Flow, select *Lifetime of aggregated NAT QoE Stor log 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 panel shows 'Settings' for 'QoE Stor: DB lifetime settings'. The settings are as follows:

Setting Name	Value
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

Red boxes highlight the following settings:

- 1. QoE Stor fullflow main log lifetime in hours (QOESTOR_FULLFLOW_MAIN_LOG_PARTITIONS_LIFE_TIME_HOUR) - Value: 2
- 2. QoE Stor NAT aggregated log lifetime in days (QOESTOR_NAT_AGG_LOG_PARTITIONS_LIFE_TIME_DAYS) - Value: 14

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: Disk Settings → Select *Enable forced data migration...* - choose *Enable data deletion!* → Select *Migration coefficient for the DEFAULT disk...* - set the value to 0.1.

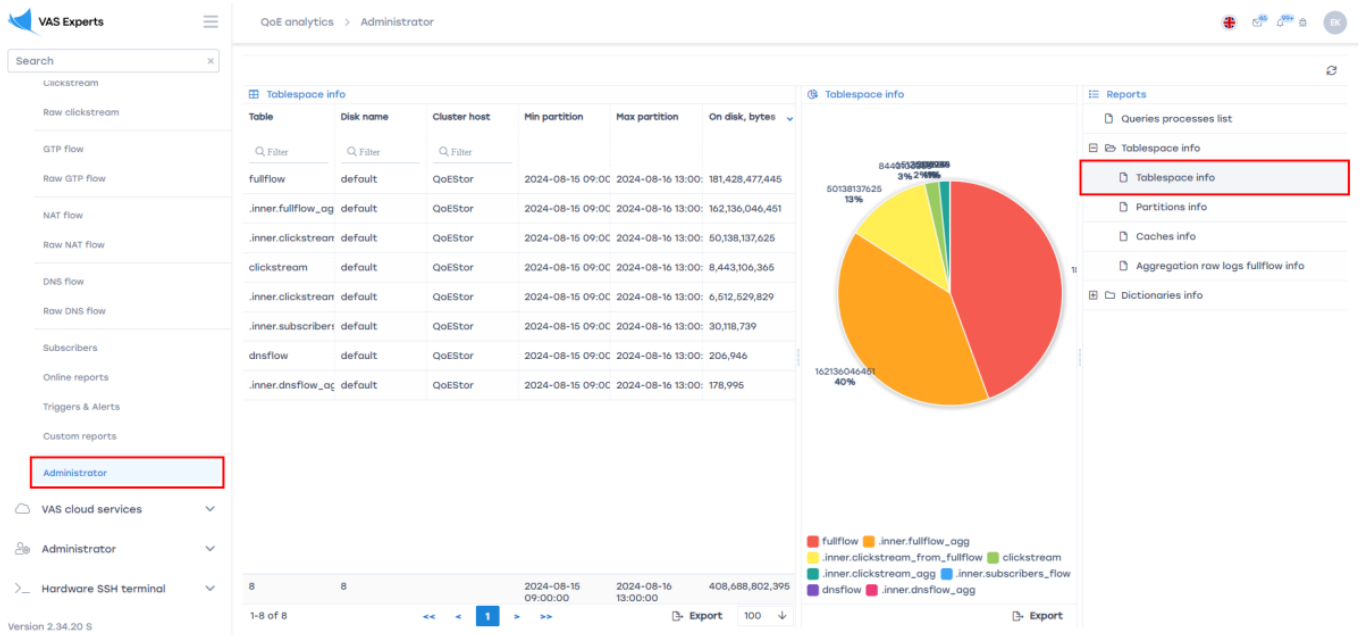
The screenshot shows the 'Administrator > GUI configuration' page in VAS Experts. The left sidebar lists various configuration categories, with 'Administrator' expanded. The main panel shows 'Settings' for 'QoE Stor: Discs settings'. The settings are as follows:

Setting Name	Value
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

A red box highlights the following settings:

- 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) - Value: 0.1

You can find out how much disk space logs are using 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



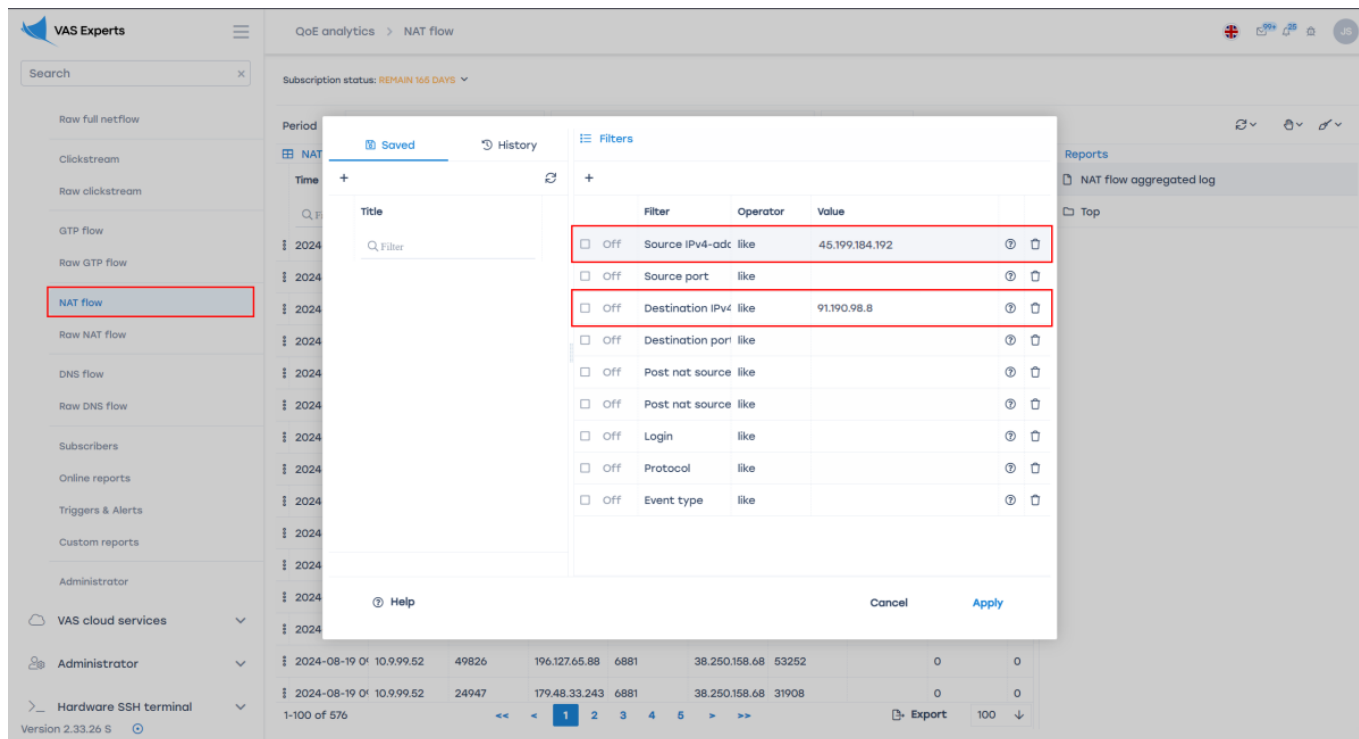
You can request a license from the GUI by filling out a form in the respective section or contact sd@vas.expert

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

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

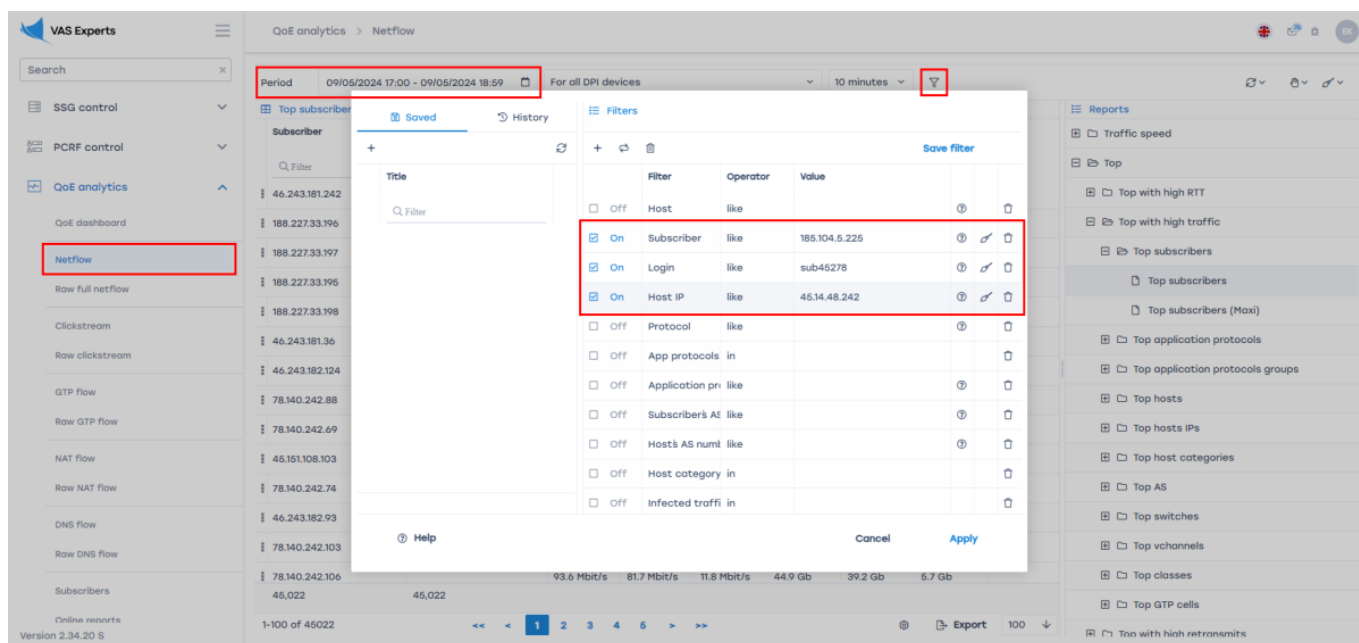


For a Public IP Address from Aggregated Data. NetFlow Section

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) and have values entered: '45.199.184.192' and '91.190.98.8' respectively. The 'Apply' button is highlighted in blue.

Filter	Operator	Value
<input checked="" type="checkbox"/> On	like	45.199.184.192
<input type="checkbox"/> Off	like	
<input type="checkbox"/> Off	like	
<input type="checkbox"/> Off	like	
<input checked="" type="checkbox"/> On	like	91.190.98.8
<input type="checkbox"/> Off	like	
<input type="checkbox"/> Off	like	
<input type="checkbox"/> Off	like	
<input type="checkbox"/> Off	like	
<input type="checkbox"/> Off	like	