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# Subscriber IP Address Statistics Search

You can view statistics in the following sections of the QoE Analytics in the GUI:

1. *Raw full netflow* (by default, data is stored for **2 hours**)
2. *NAT Flow* (by default, data is stored for **14 days**, but this section might not be available under your QoE license).

The screenshot shows the VAS Experts GUI. On the left, the 'QoE analytics' menu is expanded, showing options like 'QoE dashboard', 'Netflow', 'Clickstream', 'Raw clickstream', 'GTP flow', 'Raw GTP flow', 'NAT flow', 'Raw NAT flow', and 'DNS flow'. 'Raw full netflow' and 'NAT flow' are highlighted with red boxes. On the right, the 'QoE analytics' section is active, showing a 'Short raw log' table. The table has columns for 'Flow start time' and 'Flow end time', and it displays a list of flow records for 2024-08-16.

Flow start time	Flow end time
2024-08-16 11	20
2024-08-16 11	20
2024-08-16 11	20
2024-08-16 11	20
2024-08-16 11	20
2024-08-16 11	20
2024-08-16 11	20
2024-08-16 11	20
2024-08-16 11	20
2024-08-16 11	20
2024-08-16 11	20
2024-08-16 11	20
2024-08-16 11	20



If the subscriber's activity falls within the default data retention period, proceed to the section [Searching for Subscriber Activity in the SSG GUI](#).

If the subscriber was active outside of the default time frame, it is recommended to add the NAT Flow section (preferably) — [instructions](#) or increase the retention period for Raw full netflow (requires a lot of disk space) — [instructions](#).

# Searching for Subscriber Activity in the SSG GUI

## Option 1 (Recommended). NAT Flow

The ability to view subscriber activity data will become available after generating the NAT log — instructions [here](#).

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

In the NAT Flow section, you need to:

1. Select the period
2. Enable the filters “Source IPv4-address” and “Destination IPv4-Address” (check the boxes)
3. Set values for the enabled filters and apply the changes



## Option 2. Raw full netflow

In the SSG GUI, navigate to the QoE Analytics section → Raw full netFlow.

In the Raw Full netflow section, you need to:

1. Select the period (**by default, stored for only 2 hours!**)
2. Enable the filters “Source IPv4-address” and “Destination IPv4-Address” (check the boxes)
3. Set values for the enabled filters and apply the changes

The screenshot shows the SSG GUI interface. On the left sidebar, the 'QoE analytics' section is expanded, and 'Raw full netflow' is selected. The main panel displays the 'Raw full netflow' view. At the top, the 'Period' is set to '08/16/2024 11:22 - 08/16/2024 11:37'. Below this, a 'Filters' dialog box is open, showing a list of filters. The 'Source IPv4-address' and 'Destination IPv4-address' filters are checked (enabled). 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 visible at the bottom right of the dialog box.

## Enabling the NAT Flow Section



**A QoE Standard license is required to enable this section.** If you plan to use only this section under the license, you can purchase a discounted license. For more



information about licenses and to enable the section, contact your VAS Experts manager.

To be able to view subscriber IP address statistics in the future, it is recommended to enable the NAT Flow section, as its functionality should suffice for this task. NAT Flow determines time with an accuracy of up to 15 minutes; by default, data is stored for 14 days, but this period can be extended. Reports can be [viewed](#) in the GUI in the QoE Analytics section → NAT Flow. The ability to view subscriber activity data will become available after generating the NAT log — instructions [here](#).

## Configuring Data Retention Period

If you need to configure the data retention period, you can do this in the GUI in the section Administrator → GUI Configuration → Settings → QoE Stor: DB lifetime settings. For Raw full netflow, the item *QoE Stor fullflow main log lifetime in hours* **(1)**. For NAT Flow, the item *QoE Stor NAT aggregated log lifetime in days* **(2)**.

When increasing the data retention period, it is recommended to enable the deletion of old data when the disk is full: Administrator → GUI Configuration → Settings → QoE Stor: Disk settings → Item *Enable force moving data for DEFAULT disk* – select *Enable data removing!* → Item *Move factor for DEFAULT disk* – set the value to 0.1.

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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Administrator > GUI configuration

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: 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)

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)

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)

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)

You can find out how much disk space logs occupy in the QoE Analytics section → Administrator → Reports → Tablespace info.

Search

Clickstream

Raw clickstream

GTP flow

Raw GTP flow

NAT flow

Raw NAT flow

DNS flow

Raw DNS flow

Subscribers

Online reports

Triggers & Alerts

Custom reports

Administrator

VAS cloud services

Administrator

Hardware SSH terminal

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QoE analytics > Administrator

Tablespace info

Table	Disk name	Cluster host	Min partition	Max partition	On disk, bytes
fullflow	default	QoEStor	2024-08-15 09:00	2024-08-16 13:00	181,428,477,445
.inner.fullflow_agg	default	QoEStor	2024-08-15 09:00	2024-08-16 13:00	162,136,046,451
.inner.clickstream	default	QoEStor	2024-08-15 09:00	2024-08-16 13:00	50,138,137,625
clickstream	default	QoEStor	2024-08-15 09:00	2024-08-16 13:00	8,443,106,365
.inner.clickstream_agg	default	QoEStor	2024-08-15 09:00	2024-08-16 13:00	6,512,529,829
.inner.subscribers	default	QoEStor	2024-08-15 09:00	2024-08-16 13:00	30,118,739
dnsflow	default	QoEStor	2024-08-15 09:00	2024-08-16 13:00	206,946
.inner.dnsflow_agg	default	QoEStor	2024-08-15 09:00	2024-08-16 13:00	178,995

8

8

2024-08-15 09:00:00

2024-08-16 13:00:00

408,688,802,395

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Export

Tablespace info

fullflow

inner.fullflow\_agg

inner.clickstream\_from\_fullflow

inner.clickstream\_agg

inner.subscribers\_flow

dnsflow

inner.dnsflow\_agg

Reports

Queries processes list

Tablespace info

Partitions info

Caches info

Aggregation raw logs fullflow info

Dictionaries info