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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.

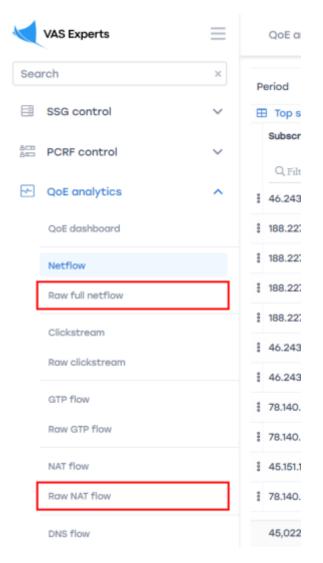
The data set to be stored depends on the type of subscriber:

- 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 reaggregation intervals.

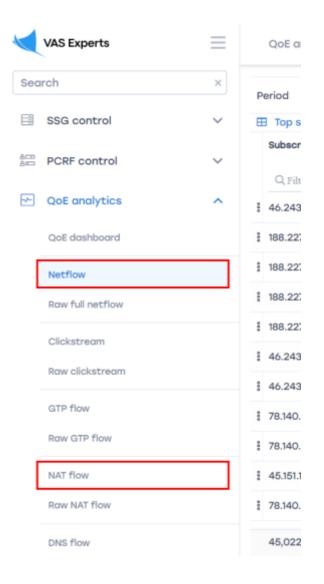
Raw unaggregated data is available in the following sections of QoE Analytics in the GUI:

- 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)



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)



## **Configuring Data Retention Period**

In the GUI, go to Administrator  $\rightarrow$  GUI Configuration  $\rightarrow$  Settings  $\rightarrow$  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).

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

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

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### 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  $\rightarrow$  NAT Flow. In the NAT Flow section, you need to:

- 1. Select the time period
- 2. Enable the "Source IPv4-address" and "Destination IPv4-Address" filters (check the box)
- 3. Enter values for the enabled filters and apply changes

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#### For a Public IP Address from Aggregated Data. NetFlow Section

In the GUI, navigate to QoE Analytics  $\rightarrow$  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

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For a Public IP Address. Raw Full NetFlow Section

In the GUI, navigate to QoE Analytics  $\rightarrow$  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

