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QoE NAT Flow

NAT Log is exported from [Stingray Service Gateway](#) and accumulates in [QoEStor database](#). These statistics are used to generate reports on user behavior in the event of a request from government agencies.

[More about configuring NAT statistics collection in QoE stor](#)

Viewing raw NAT log

Go to: Main Menu → QoE Analytics → NAT Flow → Raw NAT Flow

The screenshot shows the 'QOE ANALYTICS / RAW NAT FLOW' interface. The left sidebar contains a menu with options like 'QOE dashboard', 'NETFLOW', 'CLICKSTREAM', 'GTP FLOW', 'NAT FLOW', 'SUBSCRIBERS', 'TRIGGERS & ALERTS', and 'ADMINISTRATOR'. The 'NAT FLOW' option is selected, and a sub-menu is open showing 'NAT FLOW' and 'RAW NAT FLOW'. The 'RAW NAT FLOW' option is selected, and the main area displays a table of NAT flow records. The table has columns for 'Source port', 'Destination', 'Destination', 'Post nat', 'Post nat', 'Login', 'Session ID', 'Net protocol', 'Event type', and 'DPI ID'. The records show various IP addresses and ports, with some entries having a '1' in the 'Event type' column.

In the opened window you can select: period, DPI devices and manually set additional filters

The screenshot shows the 'QOE ANALYTICS / RAW NAT FLOW' interface with filters applied. The 'Period' is set to '8/26/2021 15:16 - 8/26/2021 15:31' and 'For all DPI devices'. The 'NAT Flow raw log' is selected, and the main area displays a table of NAT flow records. The table has columns for 'Time', 'Source IP', 'Source port', 'Destination', 'Destination', 'Post nat', 'Post nat', 'Login', 'Session ID', 'Net protocol', 'Event type', and 'DPI ID'. The records show various IP addresses and ports, with some entries having a '1' in the 'Event type' column. The bottom of the interface shows '1-108 of' and 'Export' buttons.

Viewing Aggregated NAT Log

Go to: Main menu → QoE analytics → NAT Flow → NAT Flow

The screenshot shows the VAS Experts DPI interface. On the left, a sidebar menu lists various options: QoE, SERVICES CONTROL, QOE ANALYTICS, VAS CLOUD SERVICES, ADMINISTRATOR, Clickstream, Raw clickstream, Gtp flow, Raw Gtp flow, NAT flow, Raw NAT flow, Subscribers, Triggers & Alerts, and Administrator. The 'QOE ANALYTICS' menu is expanded, showing sub-items: QOE DASHBOARD, NETFLOW, CLICKSTREAM, GTP FLOW, NAT FLOW, SUBSCRIBERS, TRIGGERS & ALERTS, and ADMINISTRATOR. The 'NAT FLOW' item is selected, and a sub-menu is open showing 'NAT FLOW' and 'RAW NAT FLOW'. The 'NAT FLOW' item is selected, and a table of NAT flow entries is displayed. The table has columns: Source port, Destination, Destination, Post nat, Post nat, Login, Session ID, Net protocol, Event type, and DPI ID. The table shows several entries with source ports ranging from 101.136.256.23 to 101.148.93.63 and destination ports ranging from 22 to 49912.

Source port	Destination	Destination	Post nat	Post nat	Login	Session ID	Net protocol	Event type	DPI ID
22	24536	5.253.102.119	0	39768	0	0	0	0	0
7.136	41843	5.253.102.119	0	39768	0	0	0	0	0
0	101.136.256.23	3342	5.253.102.119	0	39768	0	0	0	0
0	101.909.64.176	22243	5.253.102.119	0	39768	0	0	0	0
0	101.0.54.81	41414	5.253.102.119	0	39768	0	0	0	0
0	101.0.32.96	2293	5.253.102.119	0	39768	0	0	0	0
0	100.89.210.152	39225	5.253.102.119	0	39768	0	0	0	0
0	100.1.44.50	18257	5.253.102.119	0	39768	0	0	0	0
0	1.64.194.109	6881	5.253.102.119	0	39768	0	0	0	0
0	1.64.132.153	20001	5.253.102.119	0	39768	0	0	0	0
0	1.62.213.252	49912	5.253.102.119	0	39768	0	0	0	0
0	1.4.199.52	18024	5.253.102.119	0	39768	0	0	0	0

In the opened window you can select: period, DPI devices and manually set additional filters. In the right sidebar, you can choose to generate reports by Tops: Top Subscribers, Top IP-addresses of hosts, Top IP-addresses NAT

The screenshot shows the VAS Experts DPI interface. On the left, a sidebar menu lists various options: QoE dashboard, Netflow, Raw full netflow, Clickstream, Raw clickstream, Gtp flow, Raw Gtp flow, NAT flow, Raw NAT flow, Subscribers, Triggers & Alerts, and Administrator. The 'NAT flow' item is selected, and a table of NAT flow aggregated log entries is displayed. The table has columns: Time, Source IPV4, Source port, Destination, Destination, Post nat, Post nat, Login, Session ID, Net protocol, Event type, and DPI ID. The table shows several entries with source ports ranging from 85.176.16.12 to 85.148.93.63 and destination ports ranging from 36873 to 42968. In the top right corner, there are filters for 'Period' (6/26/2021 16:55 - 6/26/2021 18:14), 'For all DPI devices', and '10 minutes'. In the bottom right corner, there is an 'Export' button and a '100' value.

Time	Source IPV4	Source port	Destination	Destination	Post nat	Post nat	Login	Session ID	Net protocol	Event type	DPI ID
2021-06-26 16:1	18.97.176.3	0	85.176.16.12	36873	5.253.102.183	0	33080	0	0	0	0
2021-06-26 16:1	18.97.167.3	0	85.63.70.45	64604	5.253.102.183	0	33080	0	0	0	0
2021-06-26 16:1	18.97.167.3	0	85.249.192.48	15899	5.253.102.183	0	33080	0	0	0	0
2021-06-26 16:1	18.97.167.3	0	85.208.29.221	13116	5.253.102.183	0	33080	0	0	0	0
2021-06-26 16:1	18.97.167.3	0	85.195.252.93	6881	5.253.102.183	0	33080	0	0	0	0
2021-06-26 16:1	18.97.167.3	0	85.191.04.197	43389	5.253.102.183	0	33080	0	0	0	0
2021-06-26 16:1	18.97.167.3	0	85.174.204.48	36876	5.253.102.183	0	33080	0	0	0	0
2021-06-26 16:1	18.97.167.3	0	85.174.201.283	47885	5.253.102.183	0	33080	0	0	0	0
2021-06-26 16:1	18.97.167.3	0	85.174.208.116	43793	5.253.102.183	0	33080	0	0	0	0
2021-06-26 16:1	18.97.167.3	0	85.174.193.42	42968	5.253.102.183	0	33080	0	0	0	0
2021-06-26 16:1	18.97.167.3	0	85.173.132.24	35957	5.253.102.183	0	33080	0	0	0	0
2021-06-26 16:1	18.97.167.3	0	85.17.248.14	80	5.253.102.183	0	33080	0	0	0	0
2021-06-26 16:1	18.97.167.3	0	85.15.66.2	62868	5.253.102.183	0	33080	0	0	0	0
2021-06-26 16:1	18.97.167.3	0	85.148.93.63	50672	5.253.102.183	0	33080	0	0	0	0
2021-06-26 16:1	18.97.167.3	0	85.148.93.137	49646	5.253.102.183	0	33080	0	0	0	0