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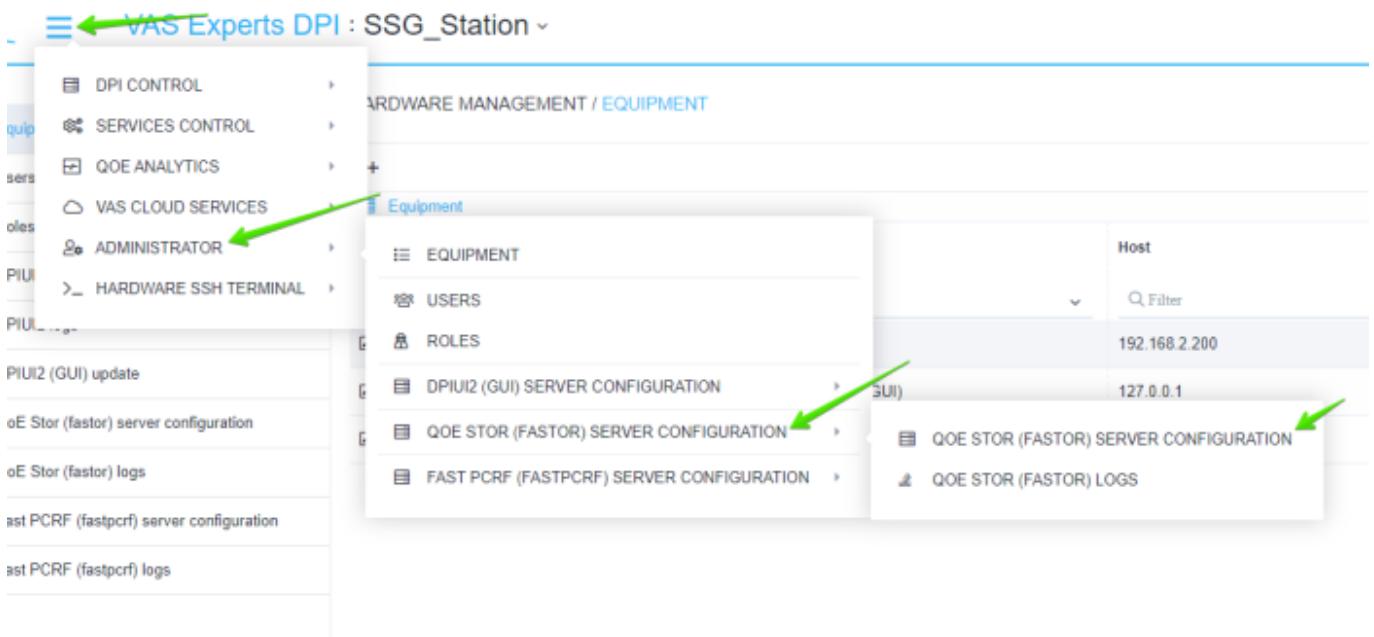
NAT Flow Configuration

There are 3 ways to generate a NAT log in QoE Stor (statistics server)

1. Receive NAT Flow in a separate flow with DPI. To do this, you need to configure the DPI on the device [export of broadcasts to external collectors](#);
2. Get NAT Flow from Netstream third party systems (non DPI);
3. Form NAT Flow from FullFlow using QoE Stor/

Configuring receiving a separate NAT Flow with DPI or NETSTREAM

- Go to: Main Menu → Administrator → QoE Stor Server Configuration → QoE Stor Server Configuration.



- Go to the "Receivers" section; add a new receiver; select "Receiver type" - NAT Flow; fill in the form for adding a receiver and click the "Apply" button;

The screenshot shows the 'QoE Stor Configuration' interface. On the left sidebar, under 'Настройки' (Settings), the 'Настройки' (Settings) option is selected. In the main content area, there is a 'Форма' (Form) tab and a 'Редактор' (Editor) tab. The 'Редактор' tab is active, showing the 'Ресиверы' (Receivers) configuration. A red box highlights the 'Настройки' section on the left and the 'Ресиверы' section on the right.

- Go to the section of the form "NAT log settings"
- Enable populate IP-LGIN binding from fullflow (FILL_IP_LOGIN_BINDING_FROM_FULLFLOW);
- Enable adding LOGIN to NAT log from binding IP-LGIN (NAT_ADD_LOGIN_FROM_IP_LOGIN_BINDING).

The screenshot shows the 'QoE Stor Configuration' interface. On the left sidebar, under 'Настройки' (Settings), the 'Настройки журнала NAT' (NAT log settings) option is selected. In the main content area, there is a 'Форма' (Form) tab and a 'Редактор' (Editor) tab. The 'Форма' tab is active, showing the 'Настройки журнала NAT' configuration. A red box highlights the 'Настройки журнала NAT' section on the right.

Enabling import of NAT events from FullFlow

To enable import of events from FullFlow transmitted from DPI to QoE Stor:

- Go to: Main Menu → Administrator → QoE Stor Server Configuration → QoE Stor Server Configuration;

The screenshot shows the VAS Experts DPI : SSG_Station interface. The main menu on the left includes: DPI CONTROL, SERVICES CONTROL, QOE ANALYTICS, VAS CLOUD SERVICES, ADMINISTRATOR (highlighted with a green arrow), and HARDWARE SSH TERMINAL. The ADMINISTRATOR menu has sub-options: PIUI2 (GUI) update, QoE Stor (fastor) server configuration, QoE Stor (fastor) logs, fast PCRF (fastpcrf) server configuration, and fast PCRF (fastpcrf) logs. The right side shows a sub-menu under HARDWARE MANAGEMENT / EQUIPMENT: Equipment, EQUIPMENT, USERS, ROLES, PIUI2 (GUI) SERVER CONFIGURATION (highlighted with a green arrow), QoE STOR (FASTOR) SERVER CONFIGURATION (highlighted with a green arrow), and FAST PCRF (FASTPCRF) SERVER CONFIGURATION. The QoE STOR (FASTOR) SERVER CONFIGURATION menu has sub-options: GUI (highlighted with a green arrow) and QoE STOR (FASTOR) SERVER LOGS.

- Import NAT events from fullflow (NAT_IMPORT_FROM_FULLFLOW) - Enable.

The screenshot shows the 'Настройки журнала NAT' (NAT Log Settings) page. The left sidebar lists various log settings: Конфигурация, Сохранить, Настройки (highlighted with a red box), Ресиверы, Фильтрация, Общие, Настройки Ulr, Настройки журнала FULLFLOW, Настройки журнала FULLFLOW AGG, Настройки журнала CLICKSTREAM AGG, Настройки журнала NAT (highlighted with a red box), Настройки журнала ONLINEFLOW, Настройки журнала DNS AGG, Настройки OpenCellID, Настройки сервиса сбора аномалий в GTP, Настройки сервиса сбора статистики UPLINK LOAD RATE, Список зараженных хостов Касперского, and Настройки кластера. The main content area shows the 'Настройки журнала NAT' section with the 'Импорт событий NAT из fullflow (NAT_IMPORT_FROM_FULLFLOW)' option enabled (Включено). Other options include: Поля для сохранения при агрегировании журнала NAT (NAT_AGG_LOG_FIELDS_TO_SAVE_BITMASK), Интервал времени для агрегирования логов NAT (NAT_AGG_LOG_GROUP_TIME_INTERVAL) set to 16 минут (По умолчанию), and other checkboxes for filling IP-LOGIN and adding LOGIN to the NAT log.

NAT Flow aggregation

Go to: Main Menu → Administrator → QoE Stor Server Configuration → QoE Stor Server Configuration;

The screenshot shows the VAS Experts DPI : SSG_Station interface. The left sidebar contains a navigation menu with several items: DPI CONTROL, SERVICES CONTROL, QOE ANALYTICS, VAS CLOUD SERVICES, ADMINISTRATOR (highlighted with a green arrow), and HARDWARE SSH TERMINAL. Below these are PUII2 (GUI) update, QoE Stor (fastor) server configuration, QoE Stor (fastor) logs, fast PCRF (fastpcrf) server configuration, and fast PCRF (fastpcrf) logs. The main content area is titled "ARDWARE MANAGEMENT / EQUIPMENT" and lists "Equipment". Under "Equipment", there are sections for EQUIPMENT, USERS, ROLES, and three configuration sections: DPIUI2 (GUI) SERVER CONFIGURATION, QOE STOR (FASTOR) SERVER CONFIGURATION (highlighted with a green arrow), and FAST PCRF (FASTPCRF) SERVER CONFIGURATION. The QOE STOR section also includes QOE STOR (FASTOR) LOGS. To the right, a table shows "Host" information: Host 192.168.2.200 and Host 127.0.0.1.

Select "NAT log settings" → Select fields to save during NAT log aggregation, Log filling time interval (15 minutes by default);

The screenshot shows the VAS Experts interface with the path "Administrator > QoE Stor configuration". The left sidebar has a tree view with nodes like SSG control, PCRF control, QoE analytics, VAS cloud services, and Administrator (with Equipment, Users, Roles, GUI configuration, GUI logs, GUI update, and QoE Stor configuration selected). The main content area is titled "QoE Stor configuration". It shows a "Settings" tab with various log settings. One section, "NAT log settings", is highlighted with a red box. The "Fields to save when aggregating NAT log" field contains the value "0x4 - Source IP4, 0x10 - Destination IP4, 0x20 - Destination port, 0x40 - Post NAT source IP4, 0x200 - Login". Other settings include "Time interval for aggregating NAT logs (NAT_AGG_LOG_GROUP_INTERVAL)" set to "15 minutes (By default)" and "Enable adding LOGIN to NAT log from IP-LINK binding (NAT_ADD_LOGIN_FROM_IP_LINK_BINDING)".

Save changes and restart the service.