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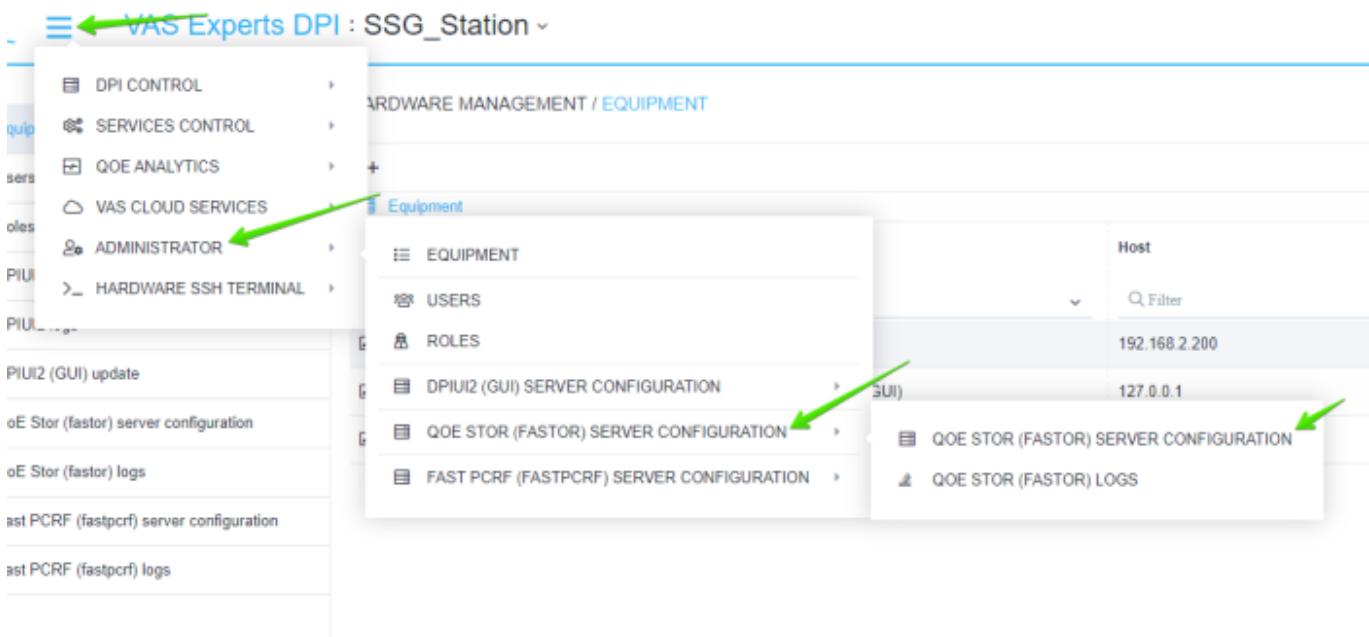
# NAT Flow Configuration

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;

ADMINISTRATOR / QOE STOR (FACTOR) SERVER CONFIGURATION

**Receivers**

Receiver type	Port type	Port	Rotate in	Delay in	Queue size	Insert	Export
NAT flow (Netstream)	tcp	1500	10	0	10	0	10.0.0.2/9920/tcp,10.0.0.3/3440/udp
			12	400	10	0	

**NAT log settings**

Export: 10.0.0.2/9920/tcp,10.0.0.3/3440/udp

Buttons: Cancel, Apply

- 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).

ADMINISTRATOR / QOE STOR (FACTOR) SERVER CONFIGURATION

**NAT log settings**

Import NAT events from fullflow (NAT\_IMPORT\_FROM\_FULLFLOW)  
Enabled

Fields to save when aggregating NAT log (NAT\_AGG\_LOG\_FIELDS\_TO\_SAVE\_BITMASK)  
0x1 - Protocol ID, 0x4 - Source IPv4, 0x100 - Session ID, 0x400 - DPI ID

Time interval for aggregating NAT logs (NAT\_AGG\_LOG\_GROUP\_TIME\_INTERVAL)  
15 minutes (By default)

Enable filling IP-LGIN bind from fullflow (FILL\_IP\_LOGIN\_BINDING\_FROM\_FULLFLOW)  
Enabled

Enable adding LOGIN to NAT log from IP-LGIN binding (NAT\_ADD\_LOGIN\_FROM\_IP\_LOGIN\_BINDING)  
Enabled

## 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 left sidebar contains a navigation menu with items like 'DPI CONTROL', 'SERVICES CONTROL', 'QOE ANALYTICS', 'VAS CLOUD SERVICES', 'ADMINISTRATOR' (highlighted with a green arrow), and 'HARDWARE SSH TERMINAL'. Below the menu are links for 'PIUI2 (GUI) update', 'QoE Stor (faststor) server configuration', 'QoE Stor (faststor) logs', 'Fast PCRF (fastpcrf) server configuration', and 'Fast PCRF (fastpcrf) logs'. The main area is titled 'HARDWARE MANAGEMENT / EQUIPMENT' and shows a table for 'Equipment'. The table has columns for 'Host' (with entries '192.168.2.200' and '127.0.0.1'), 'GUI' (with entries 'QOE STOR (FASTOR) SERVER CONFIGURATION' and 'QOE STOR (FASTOR) LOGS'), and 'Filter'. A green arrow points from the 'ADMINISTRATOR' menu item to the 'ADMINISTRATOR' section in the table.

- Import NAT events from fullflow (NAT\_IMPORT\_FROM\_FULLFLOW) - Enable.

The screenshot shows the 'ADMINISTRATOR / QOE STOR (FASTOR) SERVER CONFIGURATION' settings page. The left sidebar lists 'Equipment', 'Users', 'Roles', 'DPIUI2 (GUI) server configuration', 'DPIUI2 logs', 'DPIUI2 (GUI) update', 'QoE Stor (faststor) server configuration' (highlighted with a green arrow), 'QoE Stor (faststor) logs', 'Fast PCRF (fastpcrf) server configuration', and 'Fast PCRF (fastpcrf) logs'. The main panel has tabs for 'Settings' (selected), 'Save', and 'The form'. Under 'Settings', there are sections for 'Import NAT events from fullflow (NAT\_IMPORT\_FROM\_FULLFLOW)' (set to 'Enabled'), 'FULLFLOW log settings' (set to '10 minutes'), 'CLICKSTREAM log settings' (set to 'Enabled'), and 'NAT log settings' (set to 'Enabled'). A green arrow points from the 'QoE Stor (faststor) server configuration' link in the sidebar to the 'NAT log settings' section in the main panel.

## 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 tree with nodes like 'DPI CONTROL', 'SERVICES CONTROL', 'QOE ANALYTICS', 'VAS CLOUD SERVICES', 'ADMINISTRATOR' (highlighted with a green arrow), and 'HARDWARE MANAGEMENT / EQUIPMENT'. The main content area displays a table of 'Equipment' with columns 'Host' and 'Filter'. A green arrow points to the 'QOE STOR (FASTOR) SERVER CONFIGURATION' section in the center panel.

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

The screenshot shows the 'QoE Stor configuration' page under the 'Administrator' section. The left sidebar lists various configuration options. The main panel shows the 'NAT log settings' configuration. A red box highlights the 'Fields to save when aggregating NAT log' field, which contains the value '0x4 - Source IP4, 0x10 - Destination IP4, 0x20 - Destination port, 0x40 - Post NAT source IP4, 0x200 - Login'.

Save changes and restart the service.