Содержание

Subscriber IP Address Statistics Search	. 3
Searching for Subscriber Activity in the SSG GUI	. 4
Option 1 (Recommended). NAT Flow	. 4
Option 2. Raw full netflow	4
Enabling the NAT Flow Section	. 5
Configuring Data Retention Period	. 5

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).

	VAS Experts	=	QoE analytics
Sec	arch	×	Period 08/16/2
11	SSG control	~	🖽 Short raw log
â== 8==	PCRF control	~	Flow start 🗸 Fla time tin
~	QoE analytics	^	Q Filter C
	QoE dashboard		 2024-08-16 11 20
	Netflow		8 2024-08-16 11 20
	Raw full netflow		° 2024-08-16 11 20
	Clickstroom		§ 2024-08-16 11 20
	Raw clickstream		\$ 2024-08-16 11 20
	GTP flow		 2024-08-16 11 20 2024-08-16 11 20
	Raw GTP flow		8 2024-08-16 11 20
	NAT flow		° 2024-08-16 11 20
	Raw NAT flow		÷ 2024-08-16 11 20
	DNS flow		8 2024-08-16 11 20
	44		1 100 - (100000

note

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 \rightarrow 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

	VAS Experts	≡	QoE anal	ytics > NAT flo	W									4	e e .	25 🏠 JS
Sec	rch	×	Subscription s	tatus: REMAIN 165 DA	NAR 🗸											
	Raw full netflow		Period	🕅 Saved	3 History	E	Filters							1	2× ()~ <i>d</i> ~
	Clickstream		I NAT											Reports		
	Raw clickstream		Time +	-		e +		-	-					NAT flow aggregated log		
	GTP flow		Q Fi	TICIE				Filter	Operator	value				Отор		
			\$ 2024	Q Filter			Off	Source IPv4-add	like	45.199.184.192		0	Û			
	Raw GTP flow		\$ 2024				Off	Source port	like			(?)	Û			
	NAT flow		§ 2024				Off	Destination IPv4	like	91.190.98.8		0	Û			
	Raw NAT flow		\$ 2024				Off	Destination por	like			0	Û			
	DNS flow		\$ 2024				Off	Post nat source	like			۲	Û			
	Raw DNS flow		\$ 2024				Off	Post nat source	like			0	Û			
	Subscribers		\$ 2024				Off	Login	like			0	Û			
	Online reports		\$ 2024				Off	Protocol	like			(?)	Û			
	Triggers & Alerts		\$ 2024				Off	Event type	like			0	Û			
	Custom reports		§ 2024													
	Administrator		\$ 2024													
0	VAS cloud services	~	\$ 2024 \$ 2024	⑦ Help						Can	cel	Apply				
20	Administrator	~	\$ 2024-08-1	9 04 10.9.99.52	49826 1	96.127.65.8	8 688	38.250	158.68 53252		o	0				
			8 2024-08-1	9 0 10.9.99.52	24947 1	79.48.33.2	13 688	38.250	158.68 31908		0	0				
Versi	hardware SSH terminal	~	1-100 of 576		~~ ~	1 2	2 3	4 5 ≻	**		B. Export	100 ↓				

Option 2. Raw full netflow

In the SSG GUI, navigate to the QoE Analytics section \rightarrow 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

	VAS Experts	≡	QoE analytics >	Raw full netflow										€ c [∞] c [∞] a
Sec	arch	×	Period 08/16/20	024 11:22 - 08/16/2024 11:37	For all Di	PI device:	1	~ 10	minutes ~	7				er er dr
	SSG control	~	🖽 Short raw log	🗴 Saved 🕲 History	1	E Filters							I≣ Reports	
800	PCRF control	~	Flow start v F time t	+	Ø	+ ¢	0		Sc	ove filter		inatior	E E Raw log	
-			Q, Filter	Title			Filter	Operator	Value			Filter	Short raw log	
1	QoE analytics	^	8 2024-08-16 11 2	0.5] Off	Session ID	like			~	974	Subscriber raw log	
	QoE dashboard		1 2024-08-16 11 2	O, Filter				into .			4 0	19	🗅 Full raw log	
	Netflow		8 2024-08-16 11 2		ь	⊴ On	Source IPv4-address	like	45.199.184.192	0 0	. 0	45		
1	Danie feld ant flans		£ 2024-08-16 11 2		0] Off	Source IPv6-address	like		0	Û	974		
L L	ROW TUIL NECTION		£ 2024-08-16 11 2		0	Off	Source port	like		Ø	Û	12		
	Clickstream				0	Off	Source AS number	like		7	Û			
	Raw clickstream		: 2024-08-16 11: 2		6	On 🛛	Destination IPv4-address	like	91.190.98.8	@ c	r û	114		
			1 2024-08-16 11 2			Off	Destination IPv6-address	like		7	Û	974		
	GTP flow		1 2024-08-16 11 2] off	Destingtion port	like		0	Ĥ	26		
	Raw GTP flow		8 2024-08-16 11 2			3 011		17				12		
	NAT flow		1 2024-08-16 11 2			1011	Destination AS number	like		Ø	U	974		
	Raw NAT flow		£ 2024-08-16 11 2		0] Off	Net protocol	like		۲	Û	974		
			\$ 2024-08-16 11 2		0	Off	Application protocol	like		۲	Û	,		
	DNS flow		1 2024-00-10 11 2	() Help					Cancel	Apply				
	Raw DNS flow		‡ 2024-08-16 11 2									13		
	Subscribers		\$ 2024-08-16 11 2024	4-08-16 11: 401299570382			1771 25513	45.243.982.15		44444	204	974		
	Online reports		£ 2024-08-16 11 2024	4-08-16 11 401299570381	82 x		54516 12389		2 ::	44444	20	974		
Versi	on 2.34.20 S		1-100 of 100000	«« « <mark>1</mark>	2 3	4	5 > >>		0	Export	100	↓ ↓		

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 \rightarrow 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 \rightarrow GUI Configuration \rightarrow Settings \rightarrow 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).

	VAS Experts	=	Administrator > GUI configuration			e e e	¢ E							
Sec	irch	×	🕅 Save 🖽 🖒		ප් G The form අ	Editor								
	SSG control	~	©C Settings	8	QoE Stor: DB lifetime settings									
			Common		QoE Stor cache lifetime in seconds (QOESTOR_CACHE_LIFE_TIME_SEC)									
8/53	PCRF control	~	Jobs intervals and periods		3600		0							
	QoE analytics	~	QoE Stor: DB (Clickhouse) connection		QoE Stor main log lifetime in hours (QOESTOR_MAIN_LOG_PARTITIONS_LIFE_TIME_HOUR)		0							
0	VAS cloud services	~	QoE Stor: Raw log aggregation settings		2									
			QoE Stor: DB lifetime settings		QoE Stor aggregated log lifetime in days (QOESTOR_AGG_LOG_PARTITIONS_LIFE_TIME_DAYS)									
29	Administrator	^	QoE Stor: Discs settings	Г										
	Equipment		SMTP settings	1	QoE Stor fullflow main log lifetime in hours (QOESTOR_FULLFLOW_MAIN_LOG_PARTITIONS_LIFE_TIME_HOUR) 2		۲							
	Users		System	L	QoE Stor fullflow aggregated log lifetime in days (QOESTOR_FULLFLOW_AGG_LOG_PARTITIONS_LIFE_TIME_DAYS)									
	Roles		DB (MySql) connection		14		۲							
	Users actions log		Ulr settings: System settings		QoE Stor clickstream main log lifetime in hours (QOESTOR_CLICKSTREAM_MAIN_LOG_PARTITIONS_LIFE_TIME_HOUR)									
	GUI configuration		Ulr settings: Web rules lists		2									
	Guillogs		Push notifications settings		QoE Stor clickstream aggregated log lifetime in days (QOESTOR_CLICKSTREAM_AGG_LOG_PARTITIONS_LIFE_TIME_DAYS)									
	GUI undate		SSO authorization settings		14									
	con operate		Maps settings		QoE Stor NAT main log lifetime in hours (QOESTOR_NAT_MAIN_LOG_PARTITIONS_LIFE_TIME_HOUR)		•							
	QoE Stor configuration		VasCloud settings	Г	2									
	QoE Stor logs		Cluster settings	2	: stor NAL aggregated log liretime in days (QUESLUK_NAL_AGG_LUG_PARTITIONS_LIFE_TIME_DAYS)									
	IPFIX-balancer configuration		Backup settings	L	OoE Stor GTP main log lifetime in hours (OOESTOR GTP MAIN LOG PARTITIONS LIFE TIME HOUR)									
Versi	IPFIX-balancer loas on 2.34.20 S		Backup auto restoration settings		2		۲							

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

VAS Experts	=	Administrator > GUI configuration		🕀 📽 🖓 a 💽
Search	×	🕅 Save 🖽 🕥	යි 🛛 🖓 The form	Editor
SSG control	~	©© Settings	@ QoE Stor: Discs settings	
		Common	Logs list to move to COLD disk (QOESTOR_LOGS_TO_MOVE_TO_COLD_DISK)	
PCRF control	~	Jobs intervals and periods		~ U
- QoE analytics	~	QoE Stor: DB (Clickhouse) connection	QoE Stor logs lifetime before moving to COLD disk, in hours (QOESTOR_LOGS_LIFETIME_BEFORE_MOVING_TO_COLD_DISK)	۲
A VAS cloud services		QoE Stor: Raw log aggregation settings		
		QoE Stor: DB lifetime settings	Days of week to COLD disk (QOESTOR_MOVE_OLD_PARTITIONS_TO_COLD_DISK_SCHEDULE_WEEK_DAYS)	~ ⑦
administrator	^	QoE Stor: Discs settings	Hours of day to COLD disk (QOESTOR_MOVE_OLD_PARTITIONS_TO_COLD_DISK_SCHEDULE_HOURS)	
Equipment		SMTP settings		~ ®
Users		System	Enable force moving data for DEFAULT disk (QOESTOR_FORCE_MOVE_FROM_DEFAULT_DISK)	
Roles		DB (MySql) connection	Enable data removing!	
Users actions log		Ulr settings: System settings	Move factor for DEFAULT disk (QOESTOR_FORCE_MOVE_FROM_DEFAULT_DISK_FACTOR)	Ø
QUI configuration		Ulr settings: Web rules lists	0.1	Ŭ
Olitican		Push notifications settings	Enable force moving data for HOT disk (QOESTOR_FORCE_MOVE_FROM_HOT_DISK)	. 0
GUI undete		SSO authorization settings		
Golupadar		Maps settings	Move factor for HOT disk (QOESTOR_FORCE_MOVE_FROM_HOT_DISK_FACTOR) 0.1	۲
QoE Stor configuration		VasCloud settings	Enable force moving data for COLD disk (ODESTOR FORCE MOVE FROM COLD DISK)	
QoE Stor logs		Cluster settings		~ ®
IPFIX-balancer configurat	tion	Backup settings	Move factor for COLD disk (QOESTOR_FORCE_MOVE_FROM_COLD_DISK_FACTOR)	
IPFIX-balancer logs Version 2.34.20 S		Backup auto restoration settings	0.1	0

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

	VAS Experts	QoE analytics	> Administrate	pr					🕀 🖑 🖓 🔅 💽
Sear	ch ×								3
Clickstream		Tablespace in	ifo					() Tablespace info	E Reports
	Raw clickstream	Table	Disk name	Cluster host	Min partition	Max partition	On disk, bytes 🦂		Queries processes list
	GTP flow	Q, Filter	Q, Filter	Q, Filter					E 🗈 Tablespace info
	Raw GTP flow	fullflow	default	QoEStor	2024-08-15 09:00	2024-08-16 13:00:	181,428,477,445	84405020000000 396299756	Tablespace info
	NAT flow	.inner.fullflow_ag	default	QoEStor	2024-08-15 09:00	2024-08-16 13:00:	162,136,046,451	13%	Partitions info
	Raw NAT flow	.inner.clickstrean	default	QoEStor	2024-08-15 09:00	2024-08-16 13:00:	50,138,137,625		Caches info
	DNC Flow	clickstream	default	QoEStor	2024-08-15 09:00	2024-08-16 13:00:	8,443,106,365		Aggregation raw logs fullflow info
	Day Dig flow	.inner.clickstrean	default	QoEStor	2024-08-15 09:00	2024-08-16 13:00:	6,612,629,829		🗄 🗅 Dictionaries info
	RUW DIVISITION	.inner.subscribers	default	QoEStor	2024-08-15 09:00	2024-08-16 13:00:	30,118,739		
	Subscribers	dnsflow	default	QoEStor	2024-08-15 09:00	2024-08-16 13:00:	206,946		
	Online reports	.inner.dnsflow_ag	default	QoEStor	2024-08-15 09:00	2024-08-16 13:00:	178,995	162136046481 40%	
	Triggers & Alerts								
	Custom reports								
	Administrator								
0	VAS cloud services 🗸 🗸								
20	Administrator V							fullflow inner.fullflow_agg inner.clickstream_from_fullflow clickstream	
>_	Hardware SSH terminal \checkmark	8	8		2024-08-15 09:00:00	2024-08-16 13:00:00	408,688,802,395	dnsflow .inner.dnsflow_agg	
Versio	n 2.34.20 S	1-8 of 8		« < <mark>1</mark>)	* **	[]+ Ex	port 100 ↓	⊡• Export	