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Configuring export in IPFIX (Netflow 10)

NetFlow control can be changed by next setting:

```
netflow_full_collector_type=1
```

here

- "**0**" - export NetFlow5 (default).
- "**1**" - export UDP IPFIX.
- "**2**" - export TCP IPFIX.

Export template for IPFIX format (Netflow v10)						
№	**Size**	**Type**	**IANA**	**Description**	**Note**	**Use in QoEStor**
1	8	int64	0	OCTET_DELTA_COUNT	NetFlow v9 analogy IN_BYTES	Used
2	8	int64	0	PACKET_DELTA_COUNT	NetFlow v9 analogy IN_PKTS	Used
4	1	int8	0	PROTOCOL_IDENTIFIER	NetFlow v9 analogy PROTOCOL	Used
5	1	int8	0	IP_CLASS_OF_SERVICE	NetFlow v9 analogy TOS	Used
7	2	int16	0	SOURCE_TRANSPORT_PORT	NetFlow v9 analogy L4_SRC_PORT	Used
8	4	int32	0	SOURCE_IPV4_ADDRESS	NetFlow v9 analogy IPV4_SRC_ADDR	Used
11	2	int16	0	DESTINATION_TRANSPORT_PORT	NetFlow v9 analogy L4_DST_PORT	Used
12	4	int32	0	DESTINATION_IPV4_ADDRESS	NetFlow v9 analogy IPV4_DST_ADDR	Used
16	4	int32	0	BGP_SOURCE_AS_NUMBER	NetFlow v9 analogy SRC_AS	Used
17	4	int32	0	BGP_DESTINATION_AS_NUMBER	NetFlow v9 analogy DST_AS	Used
152	8	int64	0	FLOW_START_MILLISECOND		Used
153	8	int64	0	FLOW_END_MILLISECOND		Used
10	2	int16	0	INPUT_SNMP	NetFlow v9 analogy ingressInterface	Used
14	2	int16	0	OUTPUT_SNMP	NetFlow v9 analogy egressInterface	Used
60	1	int8	0	IP_VERSION	NetFlow v9 analogy IP_PROTOCOL_VERSION	Used
2000	8	int64	43823	SESSION_ID		Used
2001	-	string	43823	HTTP_HOST or CN_HTTPS		Used
2002	2	int16	43823	DPI_PROTOCOL		Used
2003	-	string	43823	LOGIN	Radius UserName	Used
225	4	int32	0	POST_NAT_SOURCE_IPV4_ADDRESS		Used
227	2	int16	0	POST_NAPT_SOURCE_TRANSPORT_PORT		Used

2010	2	int16	43823	FRGMT_DELTA_PACKS	Fragmented packets delta. Used in QoEStor.	Used
2011	2	int16	43823	REPEAT_DELTA_PACK	Retransmissions delta. Used in QoEStor.	Used
2012	4	int32	43823	PACKET_DELIVER_TIME	Latency (RTT/2), ms (RTT = Round Trip Time). Used in QoEStor.	Used
2016	2	int16	43823	BRIDGE_CHANNEL_NUM	Channel number (vchannel) or bridge. If vchannel is configured in the DPI configuration, then the channel number will be transmitted, otherwise the bridge number. Used in QoEStor.	Used
6	2	int16	0	tcpControlBits		
58	2	int16	0	VlanID		
59	2	int16	0	postVlanId		
56	6	mac_address	0	Source MAC Address		
57	6	mac_address	0	Destination MAC Address		
2017	-	raw	43823	MPLS Lables		
132	8	int64	0	droppedOctetDeltaCount		
133	8	int64	0	droppedPacketDeltaCount		

The export pattern in IPFIX format for IPv6 differs only in the absence of the fields: ***SOURCE_IPV4_ADDRESS***, ***DESTINATION_IPV4_ADDRESSs***, ***POST_NAT_SOURCE_IPV4_ADDRESS***, ***POST_NAT_SOURCE_TRANSPORT_PORT***, – and the presence of the following fields:

Export template for IPv6					
№	**Num of bytes**	**Data type**	**IANA**	**Description**	**Note**
27	16	int128	0	SOURCE_IPV6_ADDRESS	NetFlow v9 analogy IPV6_SRC_ADDR
28	16	int128	0	DESTINATION_IPV6_ADDRESS	NetFlow v9 analogy IPV6_DST_ADDR

To collect, process and store IPFIX we suggest using the QoE Store statistics module and DPIUI2 graphical interface.

For extended information in IPFIX format can be used any universal IPFIX collector, for instance - CESNET ipfixcol or our utility IPFIX Receiver.