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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 in NetFlow5 format (default value).
- "1" - IPFIX export to a UDP collector.
- "2" - IPFIX export to a TCP collector.

Export template for IPFIX format (Netflow v10)						
Nº	Size	Type	IANA	Description	Note	Use in QoS
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

Export template for IPFIX format (Netflow v10)						
Nº	Size	Type	IANA	Description	Note	Use in QoEStor
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 Labes		
132	8	int64	0	droppedOctetDeltaCount		
133	8	int64	0	droppedPacketDeltaCount		

Below is an IPFIX export template for an IPv6 protocol for IPv6. The following fields are missing from this template: **SOURCE_IPV4_ADDRESS, DESTINATION_IPV4_ADDRESs, POST_NAT_SOURCE_IPV4_ADDRESS, POST_NAT_SOURCE_TRANSPORT_PORT**, - and contains the following fields:

Export template for IPv6					
Nº	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](#).