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3 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**
1	8	int64	0	OCTET_DELTA_COUNT	NetFlow v9 analogy IN_BYTES
2	8	int64	0	PACKET_DELTA_COUNT	NetFlow v9 analogy IN_PKTS
4	1	int8	0	PROTOCOL_IDENTIFIER	NetFlow v9 analogy PROTOCOL
5	1	int8	0	IP_CLASS_OF_SERVICE	NetFlow v9 analogy TOS
7	2	int16	0	SOURCE_TRANSPORT_PORT	NetFlow v9 analogy L4_SRC_PORT
8	4	int32	0	SOURCE_IPV4_ADDRESS	NetFlow v9 analogy IPV4_SRC_ADDR
11	2	int16	0	DESTINATION_TRANSPORT_PORT	NetFlow v9 analogy L4_DST_PORT
12	4	int32	0	DESTINATION_IPV4_ADDRESS	NetFlow v9 analogy IPV4_DST_ADDR
16	4	int32	0	BGP_SOURCE_AS_NUMBER	NetFlow v9 analogy SRC_AS
17	4	int32	0	BGP_DESTINATION_AS_NUMBER	NetFlow v9 analogy DST_AS
152	8	int64	0	FLOW_START_MILLISECOND	
153	8	int64	0	FLOW_END_MILLISECOND	
10	2	int16	0	INPUT_SNMP	NetFlow v9 analogy ingressInterface
14	2	int16	0	OUTPUT_SNMP	NetFlow v9 analogy egressInterface
60	1	int8	0	IP_VERSION	NetFlow v9 analogy IP_PROTOCOL_VERSION
2000	8	int64	43823	SESSION_ID	
2001	-	string	43823	HTTP_HOST or CN_HTTPS	
2002	2	int16	43823	DPI_PROTOCOL	
2003	-	string	43823	LOGIN	Radius UserName
225	4	int32	0	POST_NAT_SOURCE_IPV4_ADDRESS	
227	2	int16	0	POST_NAT_SOURCE_TRANSPORT_PORT	
2010	2	int16	43823	FRGMT_DELTA_PACKS	Fragmented packets delta. Used in QoEStor.
2011	2	int16	43823	REPEAT_DELTA_PACK	Retransmissions delta. Used in QoEStor.
2012	4	int32	43823	PACKET_DELIVER_TIME	Latency (RTT/2), ms (RTT = Round Trip Time). Used in QoEStor.

Export template for IPFIX format (Netflow v10)					
№	**Size**	**Type**	**IANA**	**Description**	**Note**
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.

The export pattern in IPFIX format for IPv6 differs only in the absence of the fields: *sourceIPv4Address, destinationIPv4Address, postNATsourceIPv4Address, postNAPTsourceTransportPort,* and the presence of the following fields:

№	**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