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3 Configuring export in IPFIX (Netflow 10)

NetFlow control can be changed by next setting:

```
netflow_full_collector_type=1
```

где

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	OCTETDELTACOUNT	netflow9 analogy IN_BYTES
2	8	int64	0	PACKETDELTACOUNT	netflow9 analogy IN_PKTS
4	1	int8	0	PROTOCOLIDENTIFIER	netflow9 analogy PROTOCOL
5	1	int8	0	IPCLASSOFSERVICE	netflow9 analogy TOS
7	2	int16	0	SOURCETRANSPORTPORT	netflow9 analogy L4_SRC_PORT
8	4	int32	0	SOURCEIPV4ADDRESS	netflow9 analogy IPV4_SRC_ADDR
11	2	int16	0	DESTINATIONTRANSPORTPORT	netflow9 analogy L4_DST_PORT
12	4	int32	0	DESTINATIONIPV4ADDRESS	netflow9 analogy IPV4_DST_ADDR
16	4	int32	0	BGPSOURCEASNUMBER	netflow9 analogy SRC_AS
17	4	int32	0	BGPDESTINATIONASNUMBER	netflow9 analogy DST_AS
152	8	int64	0	FLOWSTARTMILLISECOND	
153	8	int64	0	FLOWENDMILLISECOND	
10	2	int16	0	INPUT_SNMP	netflow9 analogy ingressInterface
14	2	int16	0	OUTPUT_SNMP	netflow9 analogy egressInterface
60	1	int8	0	IPVERSION	netflow9 analogy IP_PROTOCOL_VERSION
2000	8	int64	43823	SESSION ID	
2001	-	string	43823	HTTP HOST или CN HTTPS	
2002	2	int16	43823	DPI PROTOCOL	
2003	-	string	43823	LOGIN (Radius UserName)	
225	4	int32	0	POSTNATSOURCEIPV4ADDRESS	
227	2	int16	0	POSTNAPTSOURCETRANSPORTPORT	
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.

№	Size	Type	IANA	Description	Note
2016	2	int16	43823	BRIDGECHANNELNUM	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	SOURCEIPV6ADDRESS	netflow9 analogy IPV6_SRC_ADDR
28	16	int128	0	DESTINATINATIONIPV6ADDRESS	netflow9 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