

Verify Flow Sensor NetFlow Templates and Information Elements

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Introduction

This document describes the NetFlow templates used by the Flow Sensor, this includes information such as size/format and Enterprise-specific elements

Prerequisites

The NetFlow element IDs used here are standard netflow protocol, however the template information and which elements included in each template are subject to change at any time.

Template IDs

Note: The templates with an asterisk (*) beside them contain the basic NetFlow v9/IPFIX fields found on the IANA list for standard flow creation and analysis.

IPV4_FIRST_FLOW_TEMPLATE_ID	317*
IPV4_FIRST_FLOW_DEEP_TEMPLATE_ID	318*
IPV4_FLOW_TEMPLATE_ID	319*
IPV4_EVENT_TEMPLATE_ID	320
IPV6_FIRST_FLOW_TEMPLATE_ID	321*
IPV6_FIRST_FLOW_DEEP_TEMPLATE_ID	322*
IPV6_FLOW_TEMPLATE_ID	323*
IPV6_EVENT_TEMPLATE_ID	324
IPV4_SRC_EMAIL_COUNTS_TEMPLATE_ID	325
IPV4_FIRST_FLOW_RTM_TEMPLATE_ID	326*
IPV4_FIRST_FLOW_DEEP_RTM_TEMPLATE_ID	327*
IPV4_FLOW_RTM_TEMPLATE_ID	328*
IPV6_FIRST_FLOW_RTM_TEMPLATE_ID	329*
IPV6_FIRST_FLOW_DEEP_RTM_TEMPLATE_ID	330*
IPV6_FLOW_RTM_TEMPLATE_ID	331*
IPV4_DST_EMAIL_COUNTS_TEMPLATE_ID	332
IPV6_SRC_EMAIL_COUNTS_TEMPLATE_ID	333
IPV6_DST_EMAIL_COUNTS_TEMPLATE_ID	334
IPV4_FIRST_FLOW_IPFIX_TEMPLATE_ID	335*
IPV4_FIRST_FLOW_DEEP_IPFIX_TEMPLATE_ID	336*
IPV4_FLOW_IPFIX_TEMPLATE_ID	337*
IPV4_EVENT_IPFIX_TEMPLATE_ID	338
IPV6_FIRST_FLOW_IPFIX_TEMPLATE_ID	339*
IPV6_FIRST_FLOW_DEEP_IPFIX_TEMPLATE_ID	340*
IPV6_FLOW_IPFIX_TEMPLATE_ID	341*
IPV6_EVENT_IPFIX_TEMPLATE_ID	342
IPV4_SRC_EMAIL_COUNTS_IPFIX_TEMPLATE_ID	343
IPV4_FIRST_FLOW_RTM_IPFIX_TEMPLATE_ID	344*
IPV4_FIRST_FLOW_DEEP_RTM_IPFIX_TEMPLATE_ID	345*
IPV4_FLOW_RTM_IPFIX_TEMPLATE_ID	346*
IPV6_FIRST_FLOW_RTM_IPFIX_TEMPLATE_ID	347*
IPV6_FIRST_FLOW_DEEP_RTM_IPFIX_TEMPLATE_ID	348*
IPV6_FLOW_RTM_IPFIX_TEMPLATE_ID	349*
IPV4_DST_EMAIL_COUNTS_IPFIX_TEMPLATE_ID	350
IPV6_SRC_EMAIL_COUNTS_IPFIX_TEMPLATE_ID	351
IPV6_DST_EMAIL_COUNTS_IPFIX_TEMPLATE_ID	352

Standard NetFlow Elements

NF_F_IN_BYTES	1
NF_F_IN_PKTS	2
NF_F_PROTOCOL	4
NF_F_SRC_TOS	5
NF_F_TCP_FLAGS	6
NF_F_L4_SRC_PORT	7
NF_F_SRC_ADDR_IPV4	8
NF_F_SRC_INTF_ID	10
NF_F_L4_DST_PORT	11
NF_F_DST_ADDR_IPV4	12
NF_F_DST_INTF_ID	14
NF_F_LAST_SWITCHED	21
NF_F_FIRST_SWITCHED	22
NF_F_SRC_ADDR_IPV6	27
NF_F_DST_ADDR_IPV6	28
NF_F_MIN_TTL	52
NF_F_IN_SRC_MAC	56
NF_F_OUT_DST_MAC	57
NF_F_SRC_VLAN	58
NF_F_MPLS_LABEL_1	70
NF_F_SYSTEM_INIT_TIME_MILLISECONDS	160
NF_F_TCP_SYN_TOTAL_COUNT	218
NF_F_TCP_FIN_TOTAL_COUNT	219
NF_F_TCP_RST_TOTAL_COUNT	220
NF_F_TCP_ACK_TOTAL_COUNT	222
NF_F_IP_SECTION_HEADER	313
NF_F_IP_SECTION_PAYLOAD	314

Enterprise-Specific Elements

Note: The Flow Sensor uses Lancope Information Element Identifier Definitions: Private Enterprise Number (PEN) - 8712

More information about these elements is available in the [Secure Analytics Information Elements guide](#)

NF_F_FLOWSSENSOR_INITIATOR	29794
NF_F_FLOWSSENSOR_TCP_SYN_ACK_TOTAL_COUNT	29795
NF_F_FLOWSSENSOR_TCP_SRS_TOTAL_COUNT	29796
NF_F_FLOWSSENSOR_RTT	29797
NF_F_FLOWSSENSOR_SVR_RESP	29798
NF_F_FLOWSSENSOR_RETRANSMITS	29799
NF_F_FLOWSSENSOR_TCP_BAD_TOTAL_COUNT	29800
NF_F_FLOWSSENSOR_TCP_FRAG_TOTAL_COUNT	29801
NF_F_FLOWSSENSOR_SRC_EMAIL_IN	29802
NF_F_FLOWSSENSOR_SRC_EMAIL_OUT	29803
NF_F_FLOWSSENSOR_SRC_EMAIL_IN_MESS	29804
NF_F_FLOWSSENSOR_SRC_EMAIL_OUT_MESS	29805
NF_F_FLOWSSENSOR_SRC_EMAIL_IN_TRYS	29806
NF_F_FLOWSSENSOR_SRC_EMAIL_OUT_TRYS	29807
NF_F_FLOWSSENSOR_DST_EMAIL_IN	29808
NF_F_FLOWSSENSOR_DST_EMAIL_OUT	29809
NF_F_FLOWSSENSOR_DST_EMAIL_IN_MESS	29810
NF_F_FLOWSSENSOR_DST_EMAIL_OUT_MESS	29811
NF_F_FLOWSSENSOR_DST_EMAIL_IN_TRYS	29812
NF_F_FLOWSSENSOR_DST_EMAIL_OUT_TRYS	29813

NF_F_FLOWSENSOR_TRACES	29814
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL	29817
NF_F_FLOWSENSOR_EMB_ICMP_TYPE	29818
NF_F_FLOWSENSOR_EMB_ICMP_CODE	29819
NF_F_FLOWSENSOR_APPLICATION_ID	29820
NF_F_FLOWSENSOR_BAD_FLAG_XMAS	29821
NF_F_FLOWSENSOR_BAD_FLAG_SYN_FIN	29822
NF_F_FLOWSENSOR_BAD_FLAG_BAD_RST	29823
NF_F_FLOWSENSOR_BAD_FLAG_NO_ACK	29824
NF_F_FLOWSENSOR_BAD_FLAG_URG	29825
NF_F_FLOWSENSOR_BAD_FLAG_NOFLAG	29826
NF_F_FLOWSENSOR_BAD_TCP_PROBE	29827
NF_F_FLOWSENSOR_SHORT_FRAG_ATTACK	29828
NF_F_FLOWSENSOR_FRAG_PKT_TOO_SHORT	29829
NF_F_FLOWSENSOR_FRAG_PKT_TOO_LONG	29830
NF_F_FLOWSENSOR_FRAG_DIFFERENT_SIZES	29831
NF_F_FLOWSENSOR_APPLICATION_DETAILS	29832

Template Formats

Note: Each template includes the Template Name and field count, followed by the individual NetFlow/IPFIX fields and the size of each field (in bytes).

Note that Enterprise-specific IPFIX elements are ored with 0x8000 to turn on the high bit, so the collector knows that the Private Enterprise Number (PEN) field is present.

An example with NetFlow v9 and Enterprise-specific IPFIX elements is included.

```

TEMPLATE_NAME, ## <-- Field Count (Total number of NF_F fields in the template)
FIELD_NAME_V9, # <-- Field size (in bytes)
ENTERPRISE_FIELD_NAME_IPFIX | 0x8000, # <-- Field size (in bytes)
0000, 8712 <-- Private Enterprise Number (PEN)

```

IPv4 First Flow - Template 317

Note: This template is used for the initial v9 export of IPv4 flow information from a flow slot in the Flow Sensor engine.

```

IPV4_FIRST_FLOW_TEMPLATE_ID, 31
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SRC_ADDR_IPV4, 4
NF_F_DST_ADDR_IPV4, 4
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_IN_SRC_MAC, 6
NF_F_OUT_DST_MAC, 6
NF_F_IN_BYTES, 4
NF_F_IN_PKTS, 4
NF_F_SRC_INTF_ID, 2

```

NF_F_DST_INTF_ID, 2
NF_F_PROTOCOL, 1
NF_F_TCP_FLAGS, 1
NF_F_SRC_VLAN, 2
NF_F_MPLS_LABEL_1, 3
NF_F_MIN_TTL, 1
NF_F_SRC_TOS, 1
NF_F_FLOWSENSOR_INITIATOR, 1
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TRACES, 2
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL, 1
NF_F_FLOWSENSOR_EMB_ICMP_TYPE, 1
NF_F_FLOWSENSOR_EMB_ICMP_CODE, 1
NF_F_FLOWSENSOR_APPLICATION_ID, 4

IPv4 First Flow Deep - Template 318

Note: This template is used for the initial v9 export of IPv4 flow information from a flow slot in the Flow Sensor engine when the Export Packet Payload check box is selected.

IPV4_FIRST_FLOW_DEEP_TEMPLATE_ID, 33
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SRC_ADDR_IPV4, 4
NF_F_DST_ADDR_IPV4, 4
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_IN_SRC_MAC, 6
NF_F_OUT_DST_MAC, 6
NF_F_IN_BYTES, 4
NF_F_IN_PKTS, 4
NF_F_SRC_INTF_ID, 2
NF_F_DST_INTF_ID, 2
NF_F_PROTOCOL, 1
NF_F_TCP_FLAGS, 1
NF_F_SRC_VLAN, 2
NF_F_MPLS_LABEL_1, 3
NF_F_MIN_TTL, 1
NF_F_SRC_TOS, 1
NF_F_IP_SECTION_HEADER, 64
NF_F_IP_SECTION_PAYLOAD, 26
NF_F_FLOWSENSOR_INITIATOR, 1
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TRACES, 2

NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL, 1
NF_F_FLOWSENSOR_EMB_ICMP_TYPE, 1
NF_F_FLOWSENSOR_EMB_ICMP_CODE, 1
NF_F_FLOWSENSOR_APPLICATION_ID, 4

IPv4 Flow - Template 319

Note: This template is used for follow-on v9 exports of IPv4 flow information from a flow slot in the Flow Sensor engine.

IPV4_FLOW_TEMPLATE_ID, 25
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SRC_ADDR_IPV4, 4
NF_F_DST_ADDR_IPV4, 4
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_IN_BYTES, 4
NF_F_IN_PKTS, 4
NF_F_SRC_INTF_ID, 2
NF_F_DST_INTF_ID, 2
NF_F_PROTOCOL, 1
NF_F_TCP_FLAGS, 1
NF_F_MIN_TTL, 1
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TRACES, 2
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL, 1
NF_F_FLOWSENSOR_EMB_ICMP_TYPE, 1
NF_F_FLOWSENSOR_EMB_ICMP_CODE, 1
NF_F_FLOWSENSOR_APPLICATION_ID, 4

IPv4 Event - Template 320

Note: This template is used for v9 exports of IPv4 bad fragment and flag combination counts detected by the Flow Sensor engine.

IPV4_EVENT_TEMPLATE_ID, 18
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SRC_ADDR_IPV4, 4
NF_F_DST_ADDR_IPV4, 4
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_PROTOCOL, 1
NF_F_FLOWSENSOR_BAD_FLAG_XMAS, 2

NF_F_FLOWSENSOR_BAD_FLAG_SYN_FIN, 2
NF_F_FLOWSENSOR_BAD_FLAG_BAD_RST, 2
NF_F_FLOWSENSOR_BAD_FLAG_NO_ACK, 2
NF_F_FLOWSENSOR_BAD_FLAG_URG, 2
NF_F_FLOWSENSOR_BAD_FLAG_NOFLAG, 2
NF_F_FLOWSENSOR_BAD_TCP_PROBE, 2
NF_F_FLOWSENSOR_SHORT_FRAG_ATTACK, 2
NF_F_FLOWSENSOR_FRAG_PKT_TOO_SHORT, 2
NF_F_FLOWSENSOR_FRAG_PKT_TOO_LONG, 2
NF_F_FLOWSENSOR_FRAG_DIFFERENT_SIZES, 2

IPv6 First Flow - Template 321

Note: This template is used for the initial v9 export of IPv6 flow information from a flow slot in the Flow Sensor engine.

IPV6_FIRST_FLOW_TEMPLATE_ID, 31
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SRC_ADDR_IPV6, 16
NF_F_DST_ADDR_IPV6, 16
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_IN_SRC_MAC, 6
NF_F_OUT_DST_MAC, 6
NF_F_IN_BYTES, 4
NF_F_IN_PKTS, 4
NF_F_SRC_INTF_ID, 2
NF_F_DST_INTF_ID, 2
NF_F_PROTOCOL, 1
NF_F_TCP_FLAGS, 1
NF_F_SRC_VLAN, 2
NF_F_MPLS_LABEL_1, 3
NF_F_MIN_TTL, 1
NF_F_SRC_TOS, 1
NF_F_FLOWSENSOR_INITIATOR, 1
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TRACES, 2
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL, 1
NF_F_FLOWSENSOR_EMB_ICMP_TYPE, 1
NF_F_FLOWSENSOR_EMB_ICMP_CODE, 1
NF_F_FLOWSENSOR_APPLICATION_ID, 4

IPv6 First Flow Deep - Template 322

Note: This template is used for the initial v9 export of IPv6 flow information from a flow slot in the Flow Sensor engine when the Export Packet Payload check box is selected.

IPV6_FIRST_FLOW_DEEP_TEMPLATE_ID, 33
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SRC_ADDR_IPV6, 16
NF_F_DST_ADDR_IPV6, 16
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_IN_SRC_MAC, 6
NF_F_OUT_DST_MAC, 6
NF_F_IN_BYTES, 4
NF_F_IN_PKTS, 4
NF_F_SRC_INTF_ID, 2
NF_F_DST_INTF_ID, 2
NF_F_PROTOCOL, 1
NF_F_TCP_FLAGS, 1
NF_F_SRC_VLAN, 2
NF_F_MPLS_LABEL_1, 3
NF_F_MIN_TTL, 1
NF_F_SRC_TOS, 1
NF_F_IP_SECTION_HEADER, 64
NF_F_IP_SECTION_PAYLOAD, 26
NF_F_FLOWSENSOR_INITIATOR, 1
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TRACES, 2
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL, 1
NF_F_FLOWSENSOR_EMB_ICMP_TYPE, 1
NF_F_FLOWSENSOR_EMB_ICMP_CODE, 1
NF_F_FLOWSENSOR_APPLICATION_ID, 4

IPv6 Flow - Template 323

Note: This template is used for follow-on v9 exports of IPv6 flow information from a flow slot in the Flow Sensor engine.

IPV6_FLOW_TEMPLATE_ID, 25
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SRC_ADDR_IPV6, 16
NF_F_DST_ADDR_IPV6, 16
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_IN_BYTES, 4
NF_F_IN_PKTS, 4
NF_F_SRC_INTF_ID, 2
NF_F_DST_INTF_ID, 2
NF_F_PROTOCOL, 1
NF_F_TCP_FLAGS, 1
NF_F_MIN_TTL, 1
NF_F_TCP_SYN_TOTAL_COUNT, 2

NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TRACES, 2
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL, 1
NF_F_FLOWSENSOR_EMB_ICMP_TYPE, 1
NF_F_FLOWSENSOR_EMB_ICMP_CODE, 1
NF_F_FLOWSENSOR_APPLICATION_ID, 4

IPv6 Event - Template 324

Note: This template is used for v9 exports of IPv6 bad fragment and flag combination counts detected by the Flow Sensor engine.

IPV6_EVENT_TEMPLATE_ID, 18
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SRC_ADDR_IPV6, 16
NF_F_DST_ADDR_IPV6, 16
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_PROTOCOL, 1
NF_F_FLOWSENSOR_BAD_FLAG_XMAS, 2
NF_F_FLOWSENSOR_BAD_FLAG_SYN_FIN, 2
NF_F_FLOWSENSOR_BAD_FLAG_BAD_RST, 2
NF_F_FLOWSENSOR_BAD_FLAG_NO_ACK, 2
NF_F_FLOWSENSOR_BAD_FLAG_URG, 2
NF_F_FLOWSENSOR_BAD_FLAG_NOFLAG, 2
NF_F_FLOWSENSOR_BAD_TCP_PROBE, 2
NF_F_FLOWSENSOR_SHORT_FRAG_ATTACK, 2
NF_F_FLOWSENSOR_FRAG_PKT_TOO_SHORT, 2
NF_F_FLOWSENSOR_FRAG_PKT_TOO_LONG, 2
NF_F_FLOWSENSOR_FRAG_DIFFERENT_SIZES, 2

IPv4 Source Email Counts - Template 325

Note: This template is used for v9 exports of IPv4 email counts information sourced from the source IP address as detected by the Flow Sensor engine.

IPV4_SRC_EMAIL_COUNTS_TEMPLATE_ID, 8
NF_F_SRC_ADDR_IPV4, 4
NF_F_DST_ADDR_IPV4, 4
NF_F_FLOWSENSOR_SRC_EMAIL_IN, 4
NF_F_FLOWSENSOR_SRC_EMAIL_OUT, 4
NF_F_FLOWSENSOR_SRC_EMAIL_IN_MESS, 4
NF_F_FLOWSENSOR_SRC_EMAIL_OUT_MESS, 4
NF_F_FLOWSENSOR_SRC_EMAIL_IN_TRY, 4
NF_F_FLOWSENSOR_SRC_EMAIL_OUT_TRY, 4

IPv4 First Flow Response Time Monitoring - Template 326

Note: This template is used for the initial v9 export of IPv4 flow information from a flow slot in the Flow Sensor engine when RTM data has been computed.

```
IPV4_FIRST_FLOW_RTM_TEMPLATE_ID, 34
  NF_F_FIRST_SWITCHED, 4
  NF_F_LAST_SWITCHED, 4
  NF_F_SRC_ADDR_IPV4, 4
  NF_F_DST_ADDR_IPV4, 4
  NF_F_L4_SRC_PORT, 2
  NF_F_L4_DST_PORT, 2
  NF_F_IN_SRC_MAC, 6
  NF_F_OUT_DST_MAC, 6
  NF_F_IN_BYTES, 4
  NF_F_IN_PKTS, 4
  NF_F_SRC_INTF_ID, 2
  NF_F_DST_INTF_ID, 2
  NF_F_PROTOCOL, 1
  NF_F_TCP_FLAGS, 1
  NF_F_SRC_VLAN, 2
  NF_F_MPLS_LABEL_1, 3
  NF_F_MIN_TTL, 1
  NF_F_SRC_TOS, 1
  NF_F_FLOWSENSOR_INITIATOR, 1
  NF_F_TCP_SYN_TOTAL_COUNT, 2
  NF_F_TCP_ACK_TOTAL_COUNT, 2
  NF_F_TCP_FIN_TOTAL_COUNT, 2
  NF_F_TCP_RST_TOTAL_COUNT, 2
  NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT, 2
  NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT, 2
  NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT, 2
  NF_F_FLOWSENSOR_TRACES, 2
  NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL, 1
  NF_F_FLOWSENSOR_EMB_ICMP_TYPE, 1
  NF_F_FLOWSENSOR_EMB_ICMP_CODE, 1
  NF_F_FLOWSENSOR_RTT, 4
  NF_F_FLOWSENSOR_SVR_RESP, 4
  NF_F_FLOWSENSOR_RETRANSMITS, 2
  NF_F_FLOWSENSOR_APPLICATION_ID, 4
```

IPv4 First Flow Deep Response Time Monitoring - Template 327

Note: This template is used for the initial v9 export of IPv4 flow information from a flow slot in the Flow Sensor engine when the Export Packet Payload check box is selected and RTM data has been computed.

```
IPV4_FIRST_FLOW_DEEP_RTM_TEMPLATE_ID, 36
  NF_F_FIRST_SWITCHED, 4
  NF_F_LAST_SWITCHED, 4
  NF_F_SRC_ADDR_IPV4, 4
```

NF_F_DST_ADDR_IPV4, 4
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_IN_SRC_MAC, 6
NF_F_OUT_DST_MAC, 6
NF_F_IN_BYTES, 4
NF_F_IN_PKTS, 4
NF_F_SRC_INTF_ID, 2
NF_F_DST_INTF_ID, 2
NF_F_PROTOCOL, 1
NF_F_TCP_FLAGS, 1
NF_F_SRC_VLAN, 2
NF_F_MPLS_LABEL_1, 3
NF_F_MIN_TTL, 1
NF_F_SRC_TOS, 1
NF_F_IP_SECTION_HEADER, 64
NF_F_IP_SECTION_PAYLOAD, 26
NF_F_FLOWSENSOR_INITIATOR, 1
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TRACES, 2
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL, 1
NF_F_FLOWSENSOR_EMB_ICMP_TYPE, 1
NF_F_FLOWSENSOR_EMB_ICMP_CODE, 1
NF_F_FLOWSENSOR_RTT, 4
NF_F_FLOWSENSOR_SVR_RESP, 4
NF_F_FLOWSENSOR_RETRANSMITS, 2
NF_F_FLOWSENSOR_APPLICATION_ID, 4

IPv4 Flow Response Time Monitoring - Template 328

Note: This template is used for follow-on v9 exports of IPv4 flow information from a flow slot in the Flow Sensor engine when RTM data has been computed.

IPV4_FLOW_RTM_TEMPLATE_ID, 28
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SRC_ADDR_IPV4, 4
NF_F_DST_ADDR_IPV4, 4
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_IN_BYTES, 4
NF_F_IN_PKTS, 4
NF_F_SRC_INTF_ID, 2
NF_F_DST_INTF_ID, 2
NF_F_PROTOCOL, 1
NF_F_TCP_FLAGS, 1
NF_F_MIN_TTL, 1
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2

NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TRACES, 2
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL, 1
NF_F_FLOWSENSOR_EMB_ICMP_TYPE, 1
NF_F_FLOWSENSOR_EMB_ICMP_CODE, 1
NF_F_FLOWSENSOR_RTT, 4
NF_F_FLOWSENSOR_SVR_RESP, 4
NF_F_FLOWSENSOR_RETRANSMITS, 2
NF_F_FLOWSENSOR_APPLICATION_ID, 4

IPv6 First Flow Response Time Monitoring - Template 329

Note: This template is used for the initial v9 export of IPv6 flow information from a flow slot in the Flow Sensor engine when RTM data has been computed.

IPV6_FIRST_FLOW_RTM_TEMPLATE_ID, 34
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SRC_ADDR_IPV6, 16
NF_F_DST_ADDR_IPV6, 16
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_IN_SRC_MAC, 6
NF_F_OUT_DST_MAC, 6
NF_F_IN_BYTES, 4
NF_F_IN_PKTS, 4
NF_F_SRC_INTF_ID, 2
NF_F_DST_INTF_ID, 2
NF_F_PROTOCOL, 1
NF_F_TCP_FLAGS, 1
NF_F_SRC_VLAN, 2
NF_F_MPLS_LABEL_1, 3
NF_F_MIN_TTL, 1
NF_F_SRC_TOS, 1
NF_F_FLOWSENSOR_INITIATOR, 1
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TRACES, 2
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL, 1
NF_F_FLOWSENSOR_EMB_ICMP_TYPE, 1
NF_F_FLOWSENSOR_EMB_ICMP_CODE, 1
NF_F_FLOWSENSOR_RTT, 4
NF_F_FLOWSENSOR_SVR_RESP, 4
NF_F_FLOWSENSOR_RETRANSMITS, 2
NF_F_FLOWSENSOR_APPLICATION_ID, 4

IPv6 First Flow Deep Response Time Monitoring - Template 330

Note: This template is used for the initial v9 export of IPv6 flow information from a flow slot in the Flow Sensor engine when the Export Packet Payload check box is selected and RTM data has been computed.

```
IPV6_FIRST_FLOW_DEEP_RTM_TEMPLATE_ID, 36
  NF_F_FIRST_SWITCHED, 4
  NF_F_LAST_SWITCHED, 4
  NF_F_SRC_ADDR_IPV6, 16
  NF_F_DST_ADDR_IPV6, 16
  NF_F_L4_SRC_PORT, 2
  NF_F_L4_DST_PORT, 2
  NF_F_IN_SRC_MAC, 6
  NF_F_OUT_DST_MAC, 6
  NF_F_IN_BYTES, 4
  NF_F_IN_PKTS, 4
  NF_F_SRC_INTF_ID, 2
  NF_F_DST_INTF_ID, 2
  NF_F_PROTOCOL, 1
  NF_F_TCP_FLAGS, 1
  NF_F_SRC_VLAN, 2
  NF_F_MPLS_LABEL_1, 3
  NF_F_MIN_TTL, 1
  NF_F_SRC_TOS, 1
  NF_F_IP_SECTION_HEADER, 64
  NF_F_IP_SECTION_PAYLOAD, 26
  NF_F_FLOWSENSOR_INITIATOR, 1
  NF_F_TCP_SYN_TOTAL_COUNT, 2
  NF_F_TCP_ACK_TOTAL_COUNT, 2
  NF_F_TCP_FIN_TOTAL_COUNT, 2
  NF_F_TCP_RST_TOTAL_COUNT, 2
  NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT, 2
  NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT, 2
  NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT, 2
  NF_F_FLOWSENSOR_TRACES, 2
  NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL, 1
  NF_F_FLOWSENSOR_EMB_ICMP_TYPE, 1
  NF_F_FLOWSENSOR_EMB_ICMP_CODE, 1
  NF_F_FLOWSENSOR_RTT, 4
  NF_F_FLOWSENSOR_SVR_RESP, 4
  NF_F_FLOWSENSOR_RETRANSMITS, 2
  NF_F_FLOWSENSOR_APPLICATION_ID, 4
```

IPv6 Flow Response Time Monitoring - Template 331

Note: This template is used for follow-on v9 exports of IPv6 flow information from a flow slot in the Flow Sensor engine when RTM data has been computed.

```
IPV6_FLOW_RTM_TEMPLATE_ID, 28
  NF_F_FIRST_SWITCHED, 4
  NF_F_LAST_SWITCHED, 4
```

NF_F_SRC_ADDR_IPV6, 16
NF_F_DST_ADDR_IPV6, 16
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_IN_BYTES, 4
NF_F_IN_PKTS, 4
NF_F_SRC_INTF_ID, 2
NF_F_DST_INTF_ID, 2
NF_F_PROTOCOL, 1
NF_F_TCP_FLAGS, 1
NF_F_MIN_TTL, 1
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TRACES, 2
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL, 1
NF_F_FLOWSENSOR_EMB_ICMP_TYPE, 1
NF_F_FLOWSENSOR_EMB_ICMP_CODE, 1
NF_F_FLOWSENSOR_RTT, 4
NF_F_FLOWSENSOR_SVR_RESP, 4
NF_F_FLOWSENSOR_RETRANSMITS, 2
NF_F_FLOWSENSOR_APPLICATION_ID, 4

IPv4 Destination Email Counts - Template 332

Note: This template is used for v9 exports of IPv4 email counts information received by the destination IP address as detected by the Flow Sensor engine.

IPV4_DST_EMAIL_COUNTS_TEMPLATE_ID, 8
NF_F_SRC_ADDR_IPV4, 4
NF_F_DST_ADDR_IPV4, 4
NF_F_FLOWSENSOR_DST_EMAIL_IN, 4
NF_F_FLOWSENSOR_DST_EMAIL_OUT, 4
NF_F_FLOWSENSOR_DST_EMAIL_IN_MESS, 4
NF_F_FLOWSENSOR_DST_EMAIL_OUT_MESS, 4
NF_F_FLOWSENSOR_DST_EMAIL_IN_TRYIS, 4
NF_F_FLOWSENSOR_DST_EMAIL_OUT_TRYIS, 4

IPv6 Source Email Counts - Template 333

Note: This template is used for v9 exports of IPv6 email counts information sourced from the source IP address as detected by the Flow Sensor engine.

IPV6_SRC_EMAIL_COUNTS_TEMPLATE_ID, 8
NF_F_SRC_ADDR_IPV6, 16
NF_F_DST_ADDR_IPV6, 16
NF_F_FLOWSENSOR_SRC_EMAIL_IN, 4

NF_F_FLOWSENSOR_SRC_EMAIL_OUT, 4
NF_F_FLOWSENSOR_SRC_EMAIL_IN_MESS, 4
NF_F_FLOWSENSOR_SRC_EMAIL_OUT_MESS, 4
NF_F_FLOWSENSOR_SRC_EMAIL_IN_TRYS, 4
NF_F_FLOWSENSOR_SRC_EMAIL_OUT_TRYS, 4

IPv6 Destination Email Counts - Template 334

Note: This template is used for v9 exports of IPv6 email counts information received by the destination IP address as detected by the Flow Sensor engine.

IPV6_DST_EMAIL_COUNTS_TEMPLATE_ID, 8
NF_F_SRC_ADDR_IPV6, 16
NF_F_DST_ADDR_IPV6, 16
NF_F_FLOWSENSOR_DST_EMAIL_IN, 4
NF_F_FLOWSENSOR_DST_EMAIL_OUT, 4
NF_F_FLOWSENSOR_DST_EMAIL_IN_MESS, 4
NF_F_FLOWSENSOR_DST_EMAIL_OUT_MESS, 4
NF_F_FLOWSENSOR_DST_EMAIL_IN_TRYS, 4
NF_F_FLOWSENSOR_DST_EMAIL_OUT_TRYS, 4

IPv4 First Flow IPFIX Template 335

Note: This template is used for the initial IPFIX export of IPv4 flow information from a flow slot in the Flow Sensor engine.

IPV4_FIRST_FLOW_IPFIX_TEMPLATE_ID, 33
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
NF_F_SRC_ADDR_IPV4, 4
NF_F_DST_ADDR_IPV4, 4
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_IN_SRC_MAC, 6
NF_F_OUT_DST_MAC, 6
NF_F_IN_BYTES, 4
NF_F_IN_PKTS, 4
NF_F_SRC_INTF_ID, 2
NF_F_DST_INTF_ID, 2
NF_F_PROTOCOL, 1
NF_F_TCP_FLAGS, 1
NF_F_SRC_VLAN, 2
NF_F_MPLS_LABEL_1, 3
NF_F_MIN_TTL, 1
NF_F_SRC_TOS, 1
NF_F_FLOWSENSOR_INITIATOR | 0x8000, 1
0000, 8712
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2

```
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_TYPE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_CODE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_ID | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_DETAILS | 0x8000, 65535
0000, 8712
```

IPv4 First Flow Deep IPFIX - Template 336

Note: This template is used for the initial IPFIX export of IPv4 flow information from a flow slot in the Flow Sensor engine when the Export Packet Payload check box is selected.

```
IPV4_FIRST_FLOW_DEEP_IPFIX_TEMPLATE_ID, 35
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
NF_F_SRC_ADDR_IPV4, 4
NF_F_DST_ADDR_IPV4, 4
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_IN_SRC_MAC, 6
NF_F_OUT_DST_MAC, 6
NF_F_IN_BYTES, 4
NF_F_IN_PKTS, 4
NF_F_SRC_INTF_ID, 2
NF_F_DST_INTF_ID, 2
NF_F_PROTOCOL, 1
NF_F_TCP_FLAGS, 1
NF_F_SRC_VLAN, 2
NF_F_MPLS_LABEL_1, 3
NF_F_MIN_TTL, 1
NF_F_SRC_TOS, 1
NF_F_IP_SECTION_HEADER, 64
NF_F_IP_SECTION_PAYLOAD, 26
NF_F_FLOWSENSOR_INITIATOR | 0x8000, 1
0000, 8712
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
```


0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_TYPE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_CODE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_ID | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_DETAILS | 0x8000, 65535
0000, 8712

IPv4 Flow IPFIX - Template 337

Note: This template is used for follow-on IPFIX exports of IPv4 flow information from a flow slot in the Flow Sensor engine.

IPV4_FLOW_IPFIX_TEMPLATE_ID, 27
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
NF_F_SRC_ADDR_IPV4, 4
NF_F_DST_ADDR_IPV4, 4
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_IN_BYTES, 4
NF_F_IN_PKTS, 4
NF_F_SRC_INTF_ID, 2
NF_F_DST_INTF_ID, 2
NF_F_PROTOCOL, 1
NF_F_TCP_FLAGS, 1
NF_F_MIN_TTL, 1
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_TYPE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_CODE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_ID | 0x8000, 4
0000, 8712

NF_F_FLOWSENSOR_APPLICATION_DETAILS | 0x8000, 65535
0000, 8712

IPv4 Event IPFIX - Template 338

Note: This template is used for IPFIX exports of IPv4 bad fragment and flag combination counts detected by the Flow Sensor engine.

IPV4_EVENT_IPFIX_TEMPLATE_ID, 19
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
NF_F_SRC_ADDR_IPV4, 4
NF_F_DST_ADDR_IPV4, 4
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_PROTOCOL, 1
NF_F_FLOWSENSOR_BAD_FLAG_XMAS | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_BAD_FLAG_SYN_FIN | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_BAD_FLAG_BAD_RST | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_BAD_FLAG_NO_ACK | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_BAD_FLAG_URG | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_BAD_FLAG_NOFLAG | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_BAD_TCP_PROBE | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_SHORT_FRAG_ATTACK | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_FRAG_PKT_TOO_SHORT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_FRAG_PKT_TOO_LONG | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_FRAG_DIFFERENT_SIZES | 0x8000, 2
0000, 8712

IPv6 First Flow IPFIX - Template 339

Note: This template is used for the initial IPFIX export of IPv6 flow information from a flow slot in the Flow Sensor engine.

IPV6_FIRST_FLOW_IPFIX_TEMPLATE_ID, 33
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
NF_F_SRC_ADDR_IPV6, 16
NF_F_DST_ADDR_IPV6, 16

```
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_IN_SRC_MAC, 6
NF_F_OUT_DST_MAC, 6
NF_F_IN_BYTES, 4
NF_F_IN_PKTS, 4
NF_F_SRC_INTF_ID, 2
NF_F_DST_INTF_ID, 2
NF_F_PROTOCOL, 1
NF_F_TCP_FLAGS, 1
NF_F_SRC_VLAN, 2
NF_F_MPLS_LABEL_1, 3
NF_F_MIN_TTL, 1
NF_F_SRC_TOS, 1
NF_F_FLOWSENSOR_INITIATOR | 0x8000, 1
0000, 8712
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_TYPE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_CODE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_ID | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_DETAILS | 0x8000, 65535
0000, 8712
```

IPv6 First Flow Deep IPFIX - Template 340

Note: This template is used for the initial IPFIX export of IPv6 flow information from a flow slot in the Flow Sensor engine when the Export Packet Payload check box is selected.

```
IPV6_FIRST_FLOW_DEEP_IPFIX_TEMPLATE_ID, 35
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
NF_F_SRC_ADDR_IPV6, 16
NF_F_DST_ADDR_IPV6, 16
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_IN_SRC_MAC, 6
NF_F_OUT_DST_MAC, 6
NF_F_IN_BYTES, 4
NF_F_IN_PKTS, 4
```

NF_F_SRC_INTF_ID, 2
NF_F_DST_INTF_ID, 2
NF_F_PROTOCOL, 1
NF_F_TCP_FLAGS, 1
NF_F_SRC_VLAN, 2
NF_F_MPLS_LABEL_1, 3
NF_F_MIN_TTL, 1
NF_F_SRC_TOS, 1
NF_F_IP_SECTION_HEADER, 64
NF_F_IP_SECTION_PAYLOAD, 26
NF_F_FLOWSENSOR_INITIATOR | 0x8000, 1
0000, 8712
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_TYPE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_CODE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_ID | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_DETAILS | 0x8000, 65535
0000, 8712

IPv6 Flow IPFIX - Template 341

Note: This template is used for follow-on IPFIX exports of IPv6 flow information from a flow slot in the Flow Sensor engine.

IPV6_FLOW_IPFIX_TEMPLATE_ID, 27
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
NF_F_SRC_ADDR_IPV6, 16
NF_F_DST_ADDR_IPV6, 16
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_IN_BYTES, 4
NF_F_IN_PKTS, 4
NF_F_SRC_INTF_ID, 2
NF_F_DST_INTF_ID, 2
NF_F_PROTOCOL, 1
NF_F_TCP_FLAGS, 1
NF_F_MIN_TTL, 1
NF_F_TCP_SYN_TOTAL_COUNT, 2

```
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_TYPE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_CODE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_ID | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_DETAILS | 0x8000, 65535
0000, 8712
```

IPv6 Event IPFIX - Template 342

Note: This template is used for IPFIX exports of IPv6 bad fragment and flag combination counts detected by the Flow Sensor engine.

```
IPV6_EVENT_IPFIX_TEMPLATE_ID, 19
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
NF_F_SRC_ADDR_IPV6, 16
NF_F_DST_ADDR_IPV6, 16
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_PROTOCOL, 1
NF_F_FLOWSENSOR_BAD_FLAG_XMAS | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_BAD_FLAG_SYN_FIN | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_BAD_FLAG_BAD_RST | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_BAD_FLAG_NO_ACK | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_BAD_FLAG_URG | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_BAD_FLAG_NOFLAG | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_BAD_TCP_PROBE | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_SHORT_FRAG_ATTACK | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_FRAG_PKT_TOO_SHORT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_FRAG_PKT_TOO_LONG | 0x8000, 2
0000, 8712
```

NF_F_FLOWSENSOR_FRAG_DIFFERENT_SIZES | 0x8000, 2
0000, 8712

IPv4 Source Email Counts IPFIX - Template 343

Note: This template is used for IPFIX exports of IPv4 email counts information sourced from the source IP address as detected by the Flow Sensor engine.

IPV4_SRC_EMAIL_COUNTS_IPFIX_TEMPLATE_ID, 8
NF_F_SRC_ADDR_IPV4, 4
NF_F_DST_ADDR_IPV4, 4
NF_F_FLOWSENSOR_SRC_EMAIL_IN | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_SRC_EMAIL_OUT | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_SRC_EMAIL_IN_MESS | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_SRC_EMAIL_OUT_MESS | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_SRC_EMAIL_IN_TRYS | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_SRC_EMAIL_OUT_TRYS | 0x8000, 4
0000, 8712

IPv4 First Flow Response Time Monitoring - Template 344

Note: This template is used for the initial IPFIX export of IPv4 flow information from a flow slot in the Flow Sensor engine when RTM data has been computed.

IPV4_FIRST_FLOW_RTM_IPFIX_TEMPLATE_ID, 36
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
NF_F_SRC_ADDR_IPV4, 4
NF_F_DST_ADDR_IPV4, 4
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_IN_SRC_MAC, 6
NF_F_OUT_DST_MAC, 6
NF_F_IN_BYTES, 4
NF_F_IN_PKTS, 4
NF_F_SRC_INTF_ID, 2
NF_F_DST_INTF_ID, 2
NF_F_PROTOCOL, 1
NF_F_TCP_FLAGS, 1
NF_F_SRC_VLAN, 2
NF_F_MPLS_LABEL_1, 3
NF_F_MIN_TTL, 1
NF_F_SRC_TOS, 1
NF_F_FLOWSENSOR_INITIATOR | 0x8000, 1
0000, 8712

```
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_TYPE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_CODE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_RTT | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_SVR_RESP | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_RETRANSMITS | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_ID | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_DETAILS | 0x8000, 65535
0000, 8712
```

IPv4 First Flow Deep Response Time Monitoring - Template 345

Note: This template is used for the initial IPFIX export of IPv4 flow information from a flow slot in the Flow Sensor engine when the Export Packet Payload check box is selected.

```
IPV4_FIRST_FLOW_DEEP_RTM_IPFIX_TEMPLATE_ID, 38
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
NF_F_SRC_ADDR_IPV4, 4
NF_F_DST_ADDR_IPV4, 4
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_IN_SRC_MAC, 6
NF_F_OUT_DST_MAC, 6
NF_F_IN_BYTES, 4
NF_F_IN_PKTS, 4
NF_F_SRC_INTF_ID, 2
NF_F_DST_INTF_ID, 2
NF_F_PROTOCOL, 1
NF_F_TCP_FLAGS, 1
NF_F_SRC_VLAN, 2
NF_F_MPLS_LABEL_1, 3
NF_F_MIN_TTL, 1
NF_F_SRC_TOS, 1
NF_F_IP_SECTION_HEADER, 64
NF_F_IP_SECTION_PAYLOAD, 26
```

NF_F_FLOWSENSOR_INITIATOR | 0x8000, 1
0000, 8712
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_TYPE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_CODE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_RTT | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_SVR_RESP | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_RETRANSMITS | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_ID | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_DETAILS | 0x8000, 65535
0000, 8712

IPv4 Flow Response Time Monitoring IPFIX - Template 346

Note: This template is used for follow-on IPFIX exports of IPv4 flow information from a flow slot in the Flow Sensor engine when RTM data has been computed.

IPV4_FLOW_RTM_IPFIX_TEMPLATE_ID, 30
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
NF_F_SRC_ADDR_IPV4, 4
NF_F_DST_ADDR_IPV4, 4
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_IN_BYTES, 4
NF_F_IN_PKTS, 4
NF_F_SRC_INTF_ID, 2
NF_F_DST_INTF_ID, 2
NF_F_PROTOCOL, 1
NF_F_TCP_FLAGS, 1
NF_F_MIN_TTL, 1
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2

0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_TYPE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_CODE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_RTT | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_SVR_RESP | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_RETRANSMITS | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_ID | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_DETAILS | 0x8000, 65535
0000, 8712

IPv6 First Flow Response Time Monitoring IPFIX - Template 347

Note: This template is used for the initial IPFIX export of IPv6 flow information from a flow slot in the Flow Sensor engine when RTM data has been computed.

IPV6_FIRST_FLOW_RTM_IPFIX_TEMPLATE_ID, 36
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
NF_F_SRC_ADDR_IPV6, 16
NF_F_DST_ADDR_IPV6, 16
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_IN_SRC_MAC, 6
NF_F_OUT_DST_MAC, 6
NF_F_IN_BYTES, 4
NF_F_IN_PKTS, 4
NF_F_SRC_INTF_ID, 2
NF_F_DST_INTF_ID, 2
NF_F_PROTOCOL, 1
NF_F_TCP_FLAGS, 1
NF_F_SRC_VLAN, 2
NF_F_MPLS_LABEL_1, 3
NF_F_MIN_TTL, 1
NF_F_SRC_TOS, 1
NF_F_FLOWSENSOR_INITIATOR | 0x8000, 1
0000, 8712
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2

0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_TYPE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_CODE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_RTT | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_SVR_RESP | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_RETRANSMITS | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_ID | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_DETAILS | 0x8000, 65535
0000, 8712

IPv6 First Flow Deep RTM IPFIX - Template 348

Note: This template is used for the initial IPFIX export of IPv6 flow information from a flow slot in the Flow Sensor engine when the Export Packet Payload check box is selected.

IPV6_FIRST_FLOW_DEEP_RTМ_IPFIX_TEMPLATE_ID, 38
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
NF_F_SRC_ADDR_IPV6, 16
NF_F_DST_ADDR_IPV6, 16
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_IN_SRC_MAC, 6
NF_F_OUT_DST_MAC, 6
NF_F_IN_BYTES, 4
NF_F_IN_PKTS, 4
NF_F_SRC_INTF_ID, 2
NF_F_DST_INTF_ID, 2
NF_F_PROTOCOL, 1
NF_F_TCP_FLAGS, 1
NF_F_SRC_VLAN, 2
NF_F_MPLS_LABEL_1, 3
NF_F_MIN_TTL, 1
NF_F_SRC_TOS, 1
NF_F_IP_SECTION_HEADER, 64
NF_F_IP_SECTION_PAYLOAD, 26
NF_F_FLOWSENSOR_INITIATOR | 0x8000, 1
0000, 8712
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2

NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_TYPE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_CODE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_RTT | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_SVR_RESP | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_RETRANSMITS | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_ID | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_DETAILS | 0x8000, 65535
0000, 8712

IPv6 Flow Response Time Monitoring - Template 349

Note: This template is used for follow-on IPFIX exports of IPv6 flow information from a flow slot in the Flow Sensor engine when RTM data has been computed.

IPV6_FLOW_RTM_IPFIX_TEMPLATE_ID, 30
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
NF_F_SRC_ADDR_IPV6, 16
NF_F_DST_ADDR_IPV6, 16
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_IN_BYTES, 4
NF_F_IN_PKTS, 4
NF_F_SRC_INTF_ID, 2
NF_F_DST_INTF_ID, 2
NF_F_PROTOCOL, 1
NF_F_TCP_FLAGS, 1
NF_F_MIN_TTL, 1
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712

NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_TYPE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_CODE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_RTT | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_SVR_RESP | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_RETRANSMITS | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_ID | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_DETAILS | 0x8000, 65535
0000, 8712

IPv4 Destination Email Counts IPFIX - Template 350

Note: This template is used for IPFIX exports of IPv4 email counts information received by the destination IP address as detected by the Flow Sensor engine.

IPV4_DST_EMAIL_COUNTS_IPFIX_TEMPLATE_ID, 8
NF_F_SRC_ADDR_IPV4, 4
NF_F_DST_ADDR_IPV4, 4
NF_F_FLOWSENSOR_DST_EMAIL_IN | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_DST_EMAIL_OUT | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_DST_EMAIL_IN_MESS | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_DST_EMAIL_OUT_MESS | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_DST_EMAIL_IN_TRYS | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_DST_EMAIL_OUT_TRYS | 0x8000, 4
0000, 8712

IPv6 Source Email Counts IPFIX - Template 351

Note: This template is used for IPFIX exports of IPv6 email counts information sourced from the source IP address as detected by the Flow Sensor engine.

IPV6_SRC_EMAIL_COUNTS_IPFIX_TEMPLATE_ID, 8
NF_F_SRC_ADDR_IPV6, 16
NF_F_DST_ADDR_IPV6, 16
NF_F_FLOWSENSOR_SRC_EMAIL_IN | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_SRC_EMAIL_OUT | 0x8000, 4

0000, 8712
NF_F_FLOWSENSOR_SRC_EMAIL_IN_MESS | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_SRC_EMAIL_OUT_MESS | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_SRC_EMAIL_IN_TRYS | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_SRC_EMAIL_OUT_TRYS | 0x8000, 4
0000, 8712

IPv6 Destination Email Counts IPFIX - Template 352

Note: This template is used for IPFIX exports of IPv6 email counts information received by the destination IP address as detected by the Flow Sensor engine.

IPV6_DST_EMAIL_COUNTS_IPFIX_TEMPLATE_ID, 8
NF_F_SRC_ADDR_IPV6, 16
NF_F_DST_ADDR_IPV6, 16
NF_F_FLOWSENSOR_DST_EMAIL_IN | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_DST_EMAIL_OUT | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_DST_EMAIL_IN_MESS | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_DST_EMAIL_OUT_MESS | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_DST_EMAIL_IN_TRYS | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_DST_EMAIL_OUT_TRYS | 0x8000, 4
0000, 8712