

Flow Sensor NetFlow 템플릿 및 정보 요소 확인

목차

[소개](#)

[사전 요구 사항](#)

[템플릿 ID](#)

[표준 NetFlow 요소](#)

[기업별 요소](#)

[템플릿 형식](#)

[IPv4 첫 번째 흐름 - 템플릿 317](#)

[IPv4 First Flow Deep - 템플릿 318](#)

[IPv4 흐름 - 템플릿 319](#)

[IPv4 이벤트 - 템플릿 320](#)

[IPv6 첫 번째 흐름 - 템플릿 321](#)

[IPv6 First Flow Deep - 템플릿 322](#)

[IPv6 흐름 - 템플릿 323](#)

[IPv6 이벤트 - 템플릿 324](#)

[IPv4 소스 이메일 수 - 템플릿 325](#)

[IPv4 First Flow Response Time Monitoring - 템플릿 326](#)

[IPv4 First Flow Deep Response Time Monitoring - 템플릿 327](#)

[IPv4 Flow Response Time Monitoring - 템플릿 328](#)

[IPv6 First Flow Response Time Monitoring - 템플릿 329](#)

[IPv6 First Flow Deep Response Time Monitoring - 템플릿 330](#)

[IPv6 Flow Response Time Monitoring - 템플릿 331](#)

[IPv4 대상 이메일 수 - 템플릿 332](#)

[IPv6 소스 이메일 수 - 템플릿 333](#)

[IPv6 대상 이메일 수 - 템플릿 334](#)

[IPv4 첫 번째 흐름 IPFIX 템플릿 335](#)

[IPv4 First Flow Deep IPFIX - 템플릿 336](#)

[IPv4 플로우 IPFIX - 템플릿 337](#)

[IPv4 이벤트 IPFIX - 템플릿 338](#)

[IPv6 First Flow IPFIX - 템플릿 339](#)

[IPv6 First Flow Deep IPFIX - 템플릿 340](#)

[IPv6 플로우 IPFIX - 템플릿 341](#)

[IPv6 이벤트 IPFIX - 템플릿 342](#)

[IPv4 소스 이메일 수 IPFIX - 템플릿 343](#)

[IPv4 First Flow Response Time Monitoring - 템플릿 344](#)

[IPv4 First Flow Deep Response Time Monitoring - 템플릿 345](#)

[IPv4 Flow Response Time Monitoring IPFIX - 템플릿 346](#)

[IPv6 First Flow Response Time Monitoring IPFIX - 템플릿 347](#)

[IPv6 First Flow Deep RTM IPFIX - 템플릿 348](#)

[IPv6 Flow Response Time Monitoring - 템플릿 349](#)

[IPv4 대상 이메일 수 IPFIX - 템플릿 350](#)

[IPv6 소스 이메일 수 IPFIX - 템플릿 351](#)

[IPv6 대상 이메일 수 IPFIX - 템플릿 352](#)

[ETTA 템플릿 353-372](#)

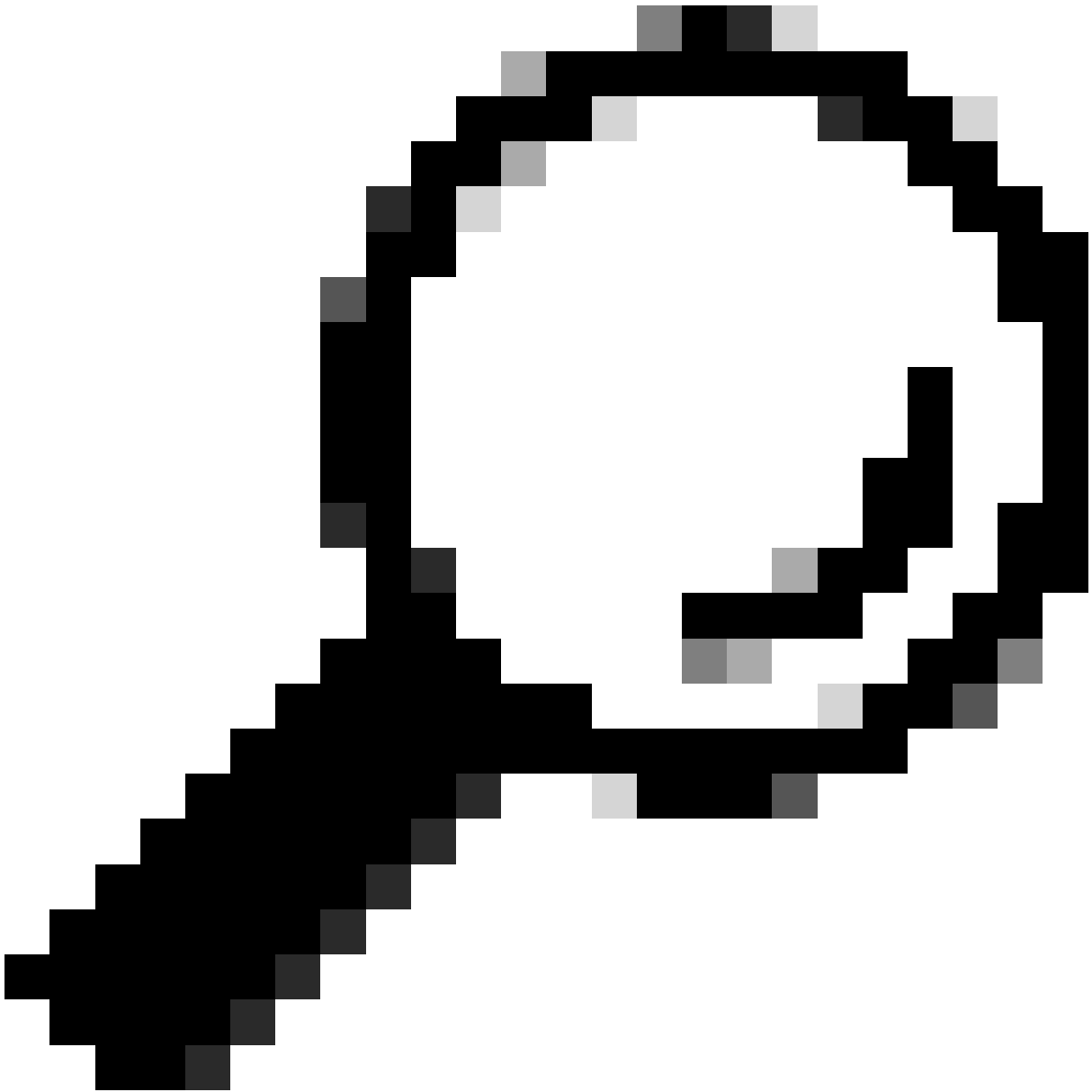
소개

이 문서에서는 SNA 플로우 센서에서 사용되는 NetFlow 템플릿에 대해 설명하며, 여기에는 엔터프라이즈 특정 요소에 대한 정보가 포함됩니다.

사전 요구 사항

여기서 사용하는 NetFlow 요소 ID는 표준 netflow 프로토콜이지만 템플릿 정보 및 각 템플릿에 포함된 요소는 언제든지 변경될 수 있습니다.

템플릿 ID



팁: SNA 버전 7.3부터 플로우 센서는 기본적으로 IPFIX 템플릿인 템플릿 ID 335-352만 전송하는 것으로 나타납니다. 플로우 센서의 모니터링 포트에서 보이는 트래픽 유형(예: IPv4 vs IPv6)에 관계없이 모든 IPFIX 템플릿이 60초마다 함께 전송됩니다.

참고: 옆에 별표(*)가 있는 템플릿에는 표준 플로우 생성 및 분석을 위해 IANA 목록에 있는 기본 NetFlow v9/IPFIX 필드가 포함되어 있습니다.

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

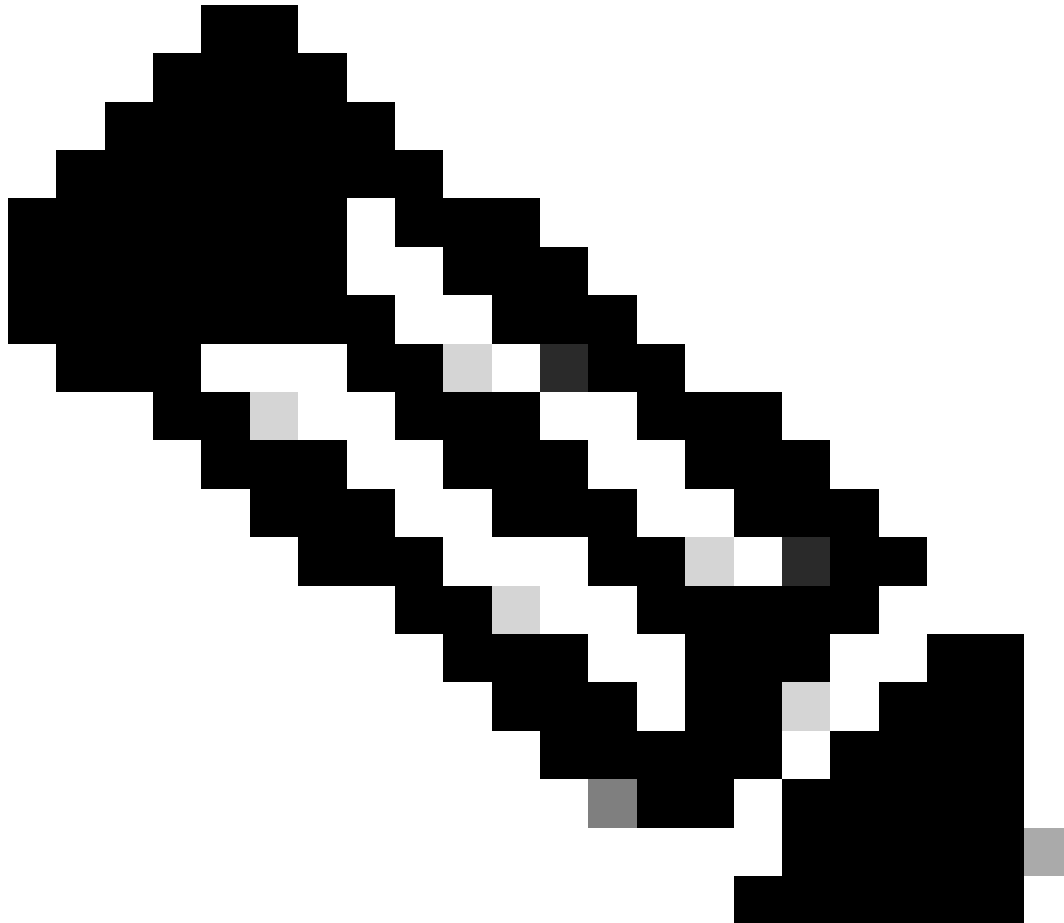
IPV4_FIRST_FLOW_IPFIX_TEMPLATE_ID	335*
IPV4_FIRST_FLOW_DEEP_IPFIX_TEMPLATE_ID	336*
IPV4_FLOW_IPFIX_TEMPLATE_ID	337*
IPV4_EVENT_IPFIX_TEMPLATE_ID	338
IPV6_FIRST_FLOW_IPFIX_TEMPLATE_ID	339*
IPV6_FIRST_FLOW_DEEP_IPFIX_TEMPLATE_ID	340*
IPV6_FLOW_IPFIX_TEMPLATE_ID	341*
IPV6_EVENT_IPFIX_TEMPLATE_ID	342
IPV4_SRC_EMAIL_COUNTS_IPFIX_TEMPLATE_ID	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
IPV4_ETTA_IDP_TEMPLATE_ID	353
IPV4_ETTA_IDP_IPFIX_TEMPLATE_ID	354
IPV4_ETTA_SPLT_TEMPLATE_ID	355
IPV4_ETTA_SPLT_IPFIX_TEMPLATE_ID	356
IPV4_ETTA_BD_TEMPLATE_ID	357
IPV4_ETTA_BD_IPFIX_TEMPLATE_ID	358
IPV4_ETTA_TLS_TEMPLATE_ID	359
IPV4_ETTA_TLS_IPFIX_TEMPLATE_ID	360
IPV4_ETTA_SALT_TEMPLATE_ID	361
IPV4_ETTA_SALT_IPFIX_TEMPLATE_ID	362
IPV6_ETTA_IDP_TEMPLATE_ID	363
IPV6_ETTA_IDP_IPFIX_TEMPLATE_ID	364
IPV6_ETTA_SPLT_TEMPLATE_ID	365
IPV6_ETTA_SPLT_IPFIX_TEMPLATE_ID	366
IPV6_ETTA_BD_TEMPLATE_ID	367
IPV6_ETTA_BD_IPFIX_TEMPLATE_ID	368
IPV6_ETTA_TLS_TEMPLATE_ID	369
IPV6_ETTA_TLS_IPFIX_TEMPLATE_ID	370
IPV6_ETTA_SALT_TEMPLATE_ID	371
IPV6_ETTA_SALT_IPFIX_TEMPLATE_ID	372

표준 NetFlow 요소

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

기업별 요소



참고: Flow Sensor는 Lancope Information Element 식별자 정의: Private Enterprise Number(PEN) - 8712를 사용합니다.

이러한 요소에 대한 자세한 내용은 [Secure Analytics Information Elements 설명서를 참조하십시오](#)

NF_F_FLOWSENSOR_INITIATOR	29794
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT	29795
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT	29796
NF_F_FLOWSENSOR_RTT	29797
NF_F_FLOWSENSOR_SVR_RESP	29798
NF_F_FLOWSENSOR_RETRANSMITS	29799
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT	29800
NF_F_FLOWSENSOR_TCP_FRAG_TOTAL_COUNT	29801
NF_F_FLOWSENSOR_SRC_EMAIL_IN	29802
NF_F_FLOWSENSOR_SRC_EMAIL_OUT	29803
NF_F_FLOWSENSOR_SRC_EMAIL_IN_MESS	29804
NF_F_FLOWSENSOR_SRC_EMAIL_OUT_MESS	29805
NF_F_FLOWSENSOR_SRC_EMAIL_IN_TRYIS	29806
NF_F_FLOWSENSOR_SRC_EMAIL_OUT_TRYIS	29807
NF_F_FLOWSENSOR_DST_EMAIL_IN	29808
NF_F_FLOWSENSOR_DST_EMAIL_OUT	29809
NF_F_FLOWSENSOR_DST_EMAIL_IN_MESS	29810
NF_F_FLOWSENSOR_DST_EMAIL_OUT_MESS	29811
NF_F_FLOWSENSOR_DST_EMAIL_IN_TRYIS	29812
NF_F_FLOWSENSOR_DST_EMAIL_OUT_TRYIS	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

템플릿 형식



참고: 각 템플릿에는 템플릿 이름 및 필드 수가 포함되며 그 뒤에 개별 NetFlow/IPFIX 필드 및 각 필드의 크기(바이트)가 옵니다.

엔터프라이즈별 IPFIX 요소는 0x8000으로 로드되어 높은 비트를 켜므로 컬렉터는 PEN(Private Enterprise Number) 필드가 있음을 알 수 있습니다.

NetFlow v9 및 기업용 IPFIX 요소의 예가 포함되어 있습니다.

```
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)
```

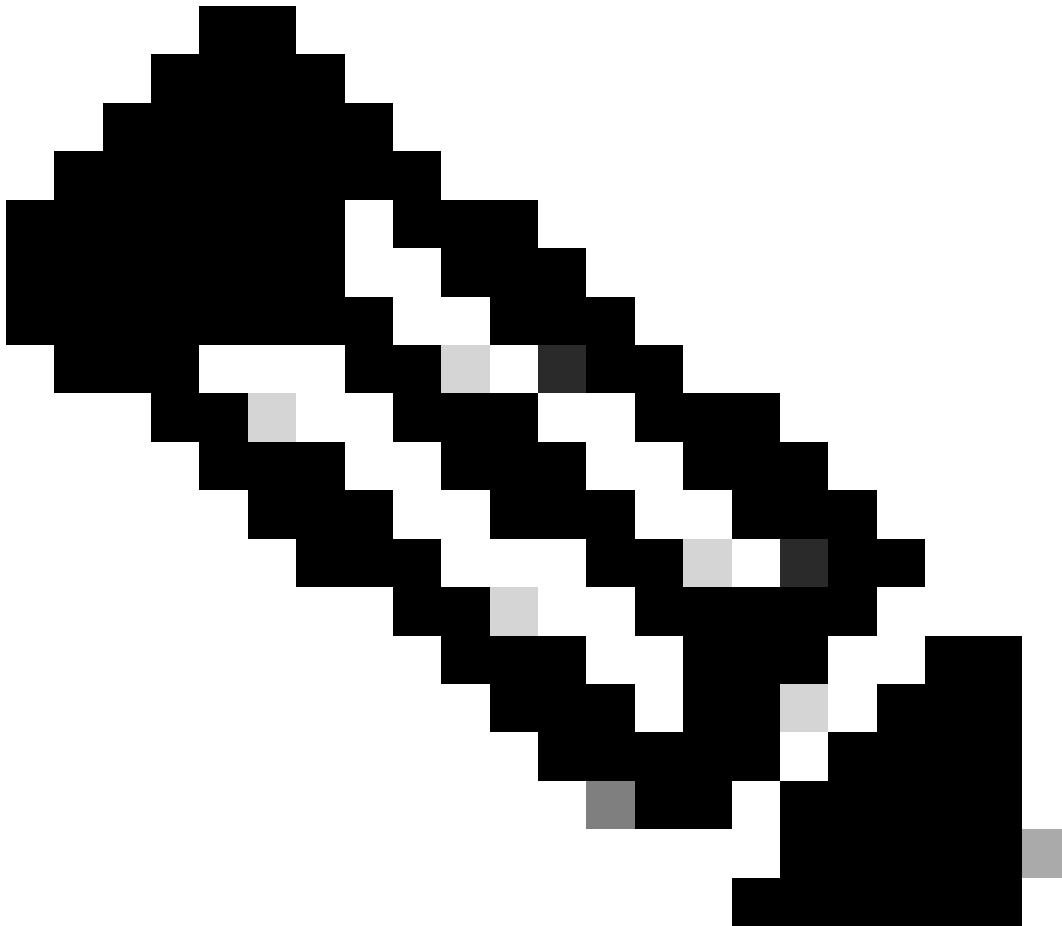
IPv4 첫 번째 흐름 - 템플릿 317

참고: 이 템플릿은 Flow Sensor 엔진의 플로우 슬롯에서 IPv4 플로우 정보의 초기 v9 내보내기에 사용됩니다.

```
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 - 템플릿 318



참고: 이 템플릿은 Export Packet Payload(패킷 페이로드 내보내기) 확인란이 선택된 경우 Flow Sensor 엔진의 흐름 슬롯에서 IPv4 흐름 정보를 처음 v9 내보내는 데 사용됩니다.

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

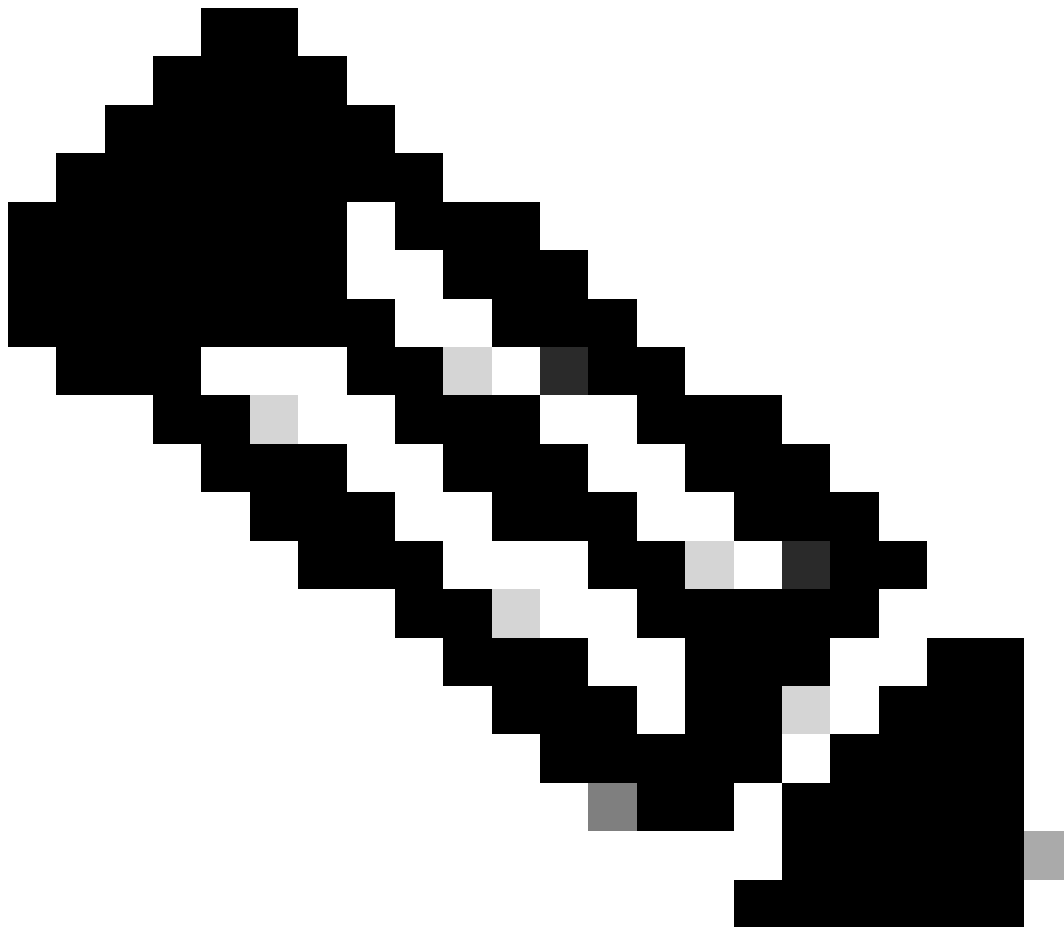
IPv4 흐름 - 템플릿 319

참고: 이 템플릿은 Flow Sensor 엔진의 플로우 슬롯에서 IPv4 플로우 정보의 후속 v9 내보내기에 사용됩니다.

```
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 이벤트 - 템플릿 320

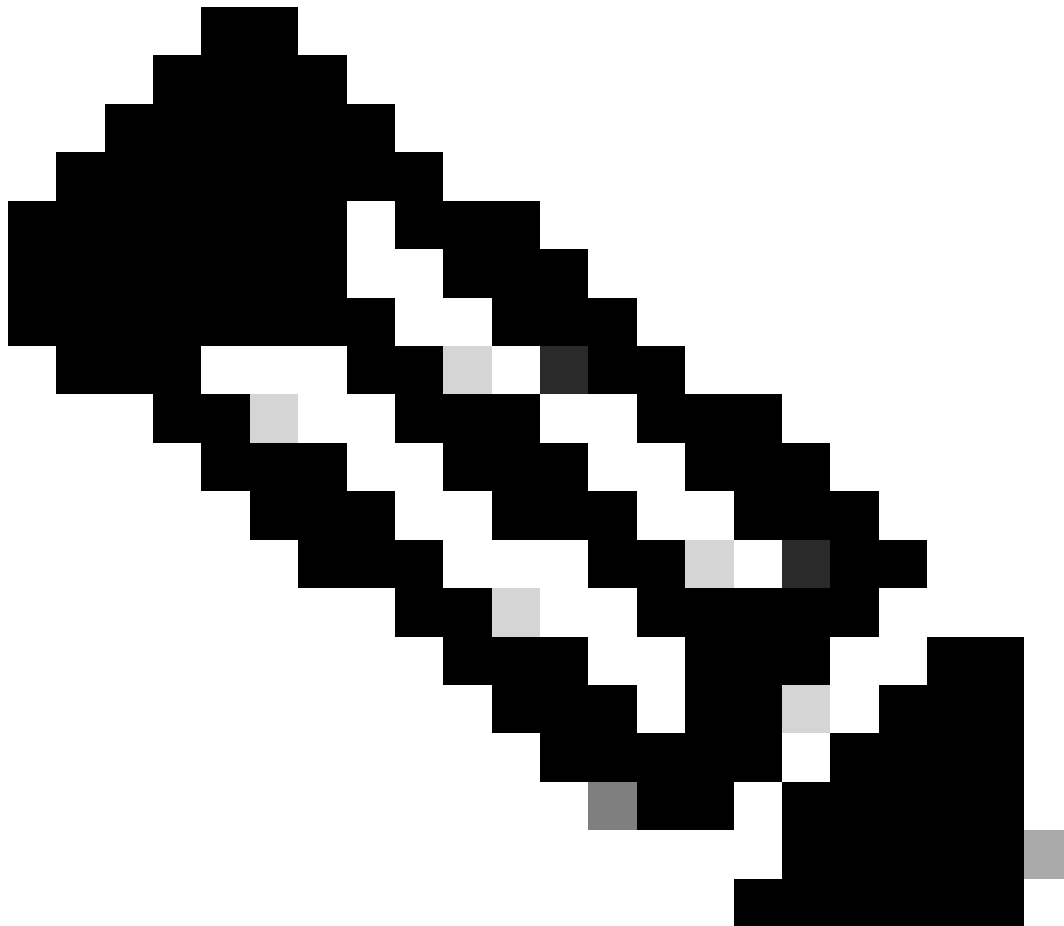


참고: 이 템플릿은 Flow Sensor 엔진에서 탐지된 IPv4 불량 프래그먼트 및 플래그 조합 카운트의 v9 내보내기에 사용됩니다.

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 첫 번째 흐름 - 템플릿 321



참고: 이 템플릿은 Flow Sensor 엔진의 플로우 슬롯에서 IPv6 플로우 정보의 초기 v9 내보내기에 사용됩니다.

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

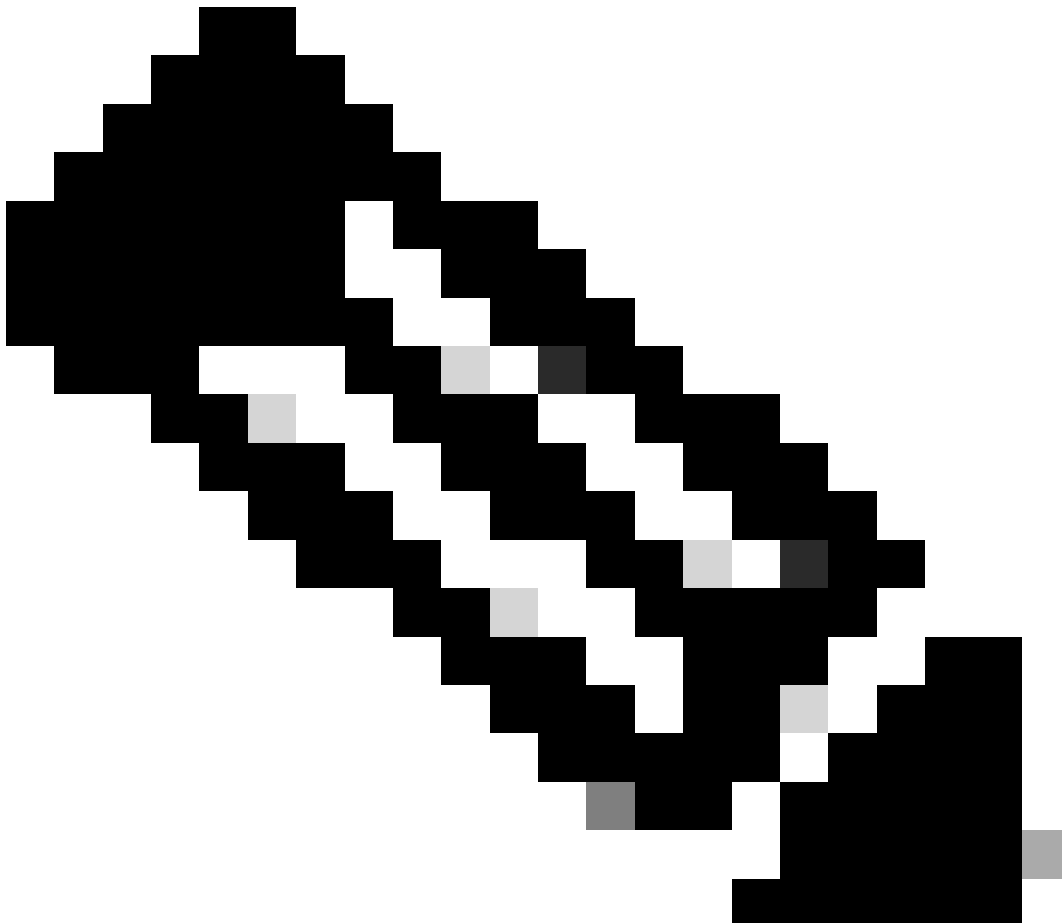
IPv6 First Flow Deep - 템플릿 322

참고: 이 템플릿은 Export Packet Payload(패킷 페이로드 내보내기) 확인란이 선택된 경우 Flow Sensor 엔진의 흐름 슬롯에서 IPv6 흐름 정보를 처음 v9 내보내는 데 사용됩니다.

```
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 흐름 - 템플릿 323



참고: 이 템플릿은 Flow Sensor 엔진의 플로우 슬롯에서 IPv6 플로우 정보의 후속 v9 내보

내기에 사용됩니다.

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

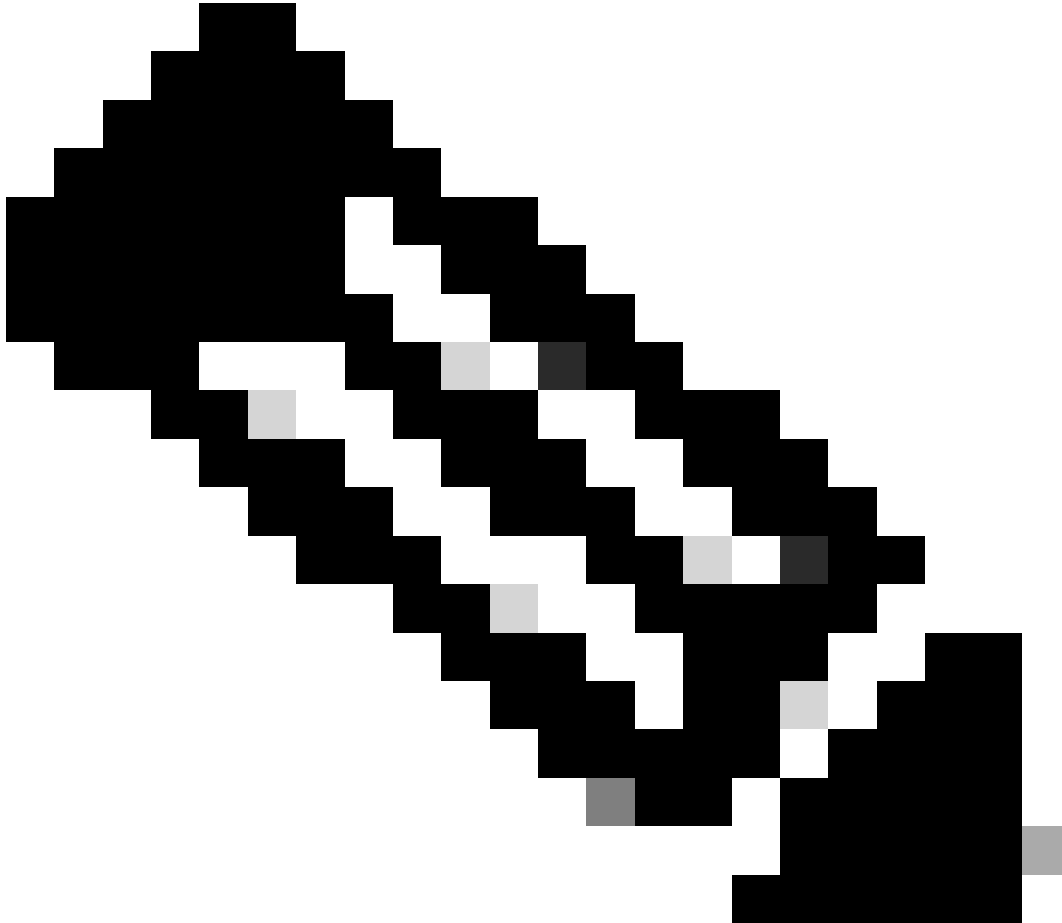
IPv6 이벤트 - 템플릿 324



참고: 이 템플릿은 Flow Sensor 엔진에서 탐지된 IPv6 불량 프래그먼트 및 플래그 조합 카운트의 v9 내보내기에 사용됩니다.

```
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
```

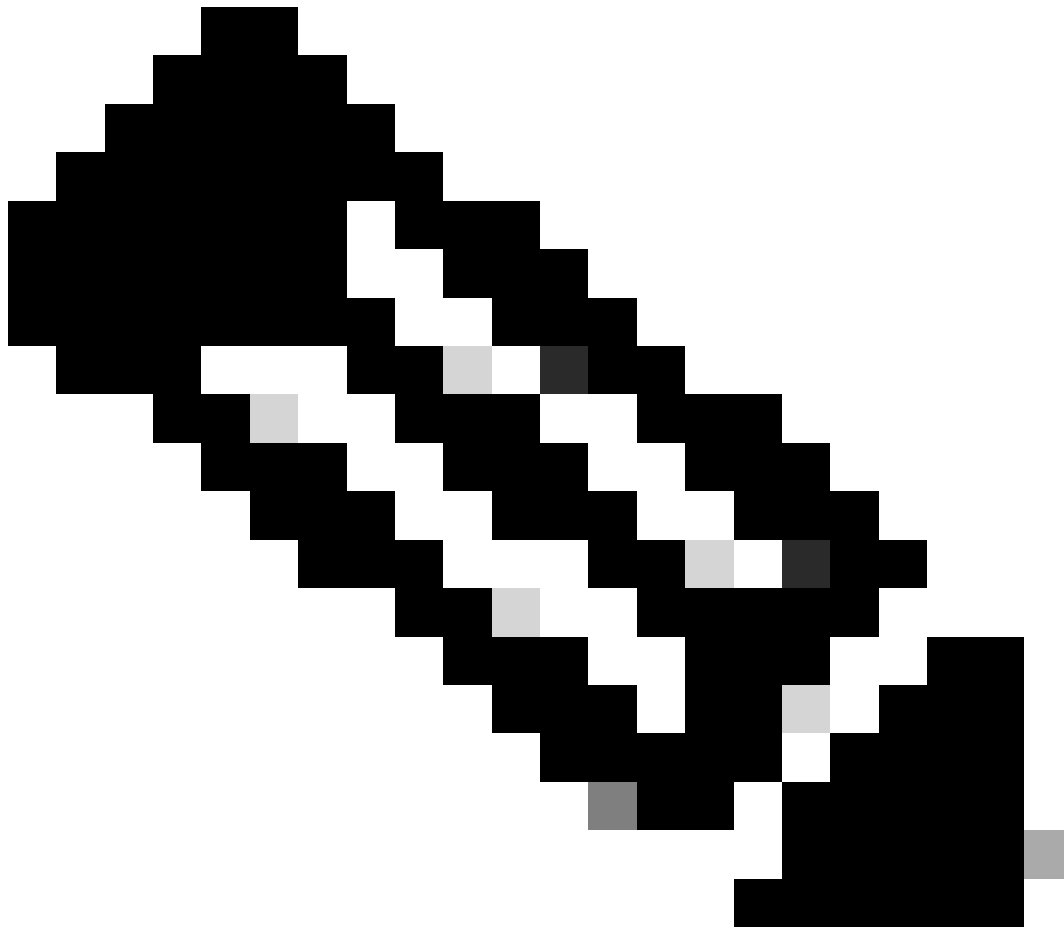
IPv4 소스 이메일 수 - 템플릿 325



참고: 이 템플릿은 Flow Sensor 엔진에서 탐지된 소스 IP 주소에서 소싱된 IPv4 이메일 카운트 정보의 v9 내보내기에 사용됩니다.

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_TRYS, 4
NF_F_FLOWSENSOR_SRC_EMAIL_OUT_TRYS, 4

IPv4 First Flow Response Time Monitoring - 템플릿 326

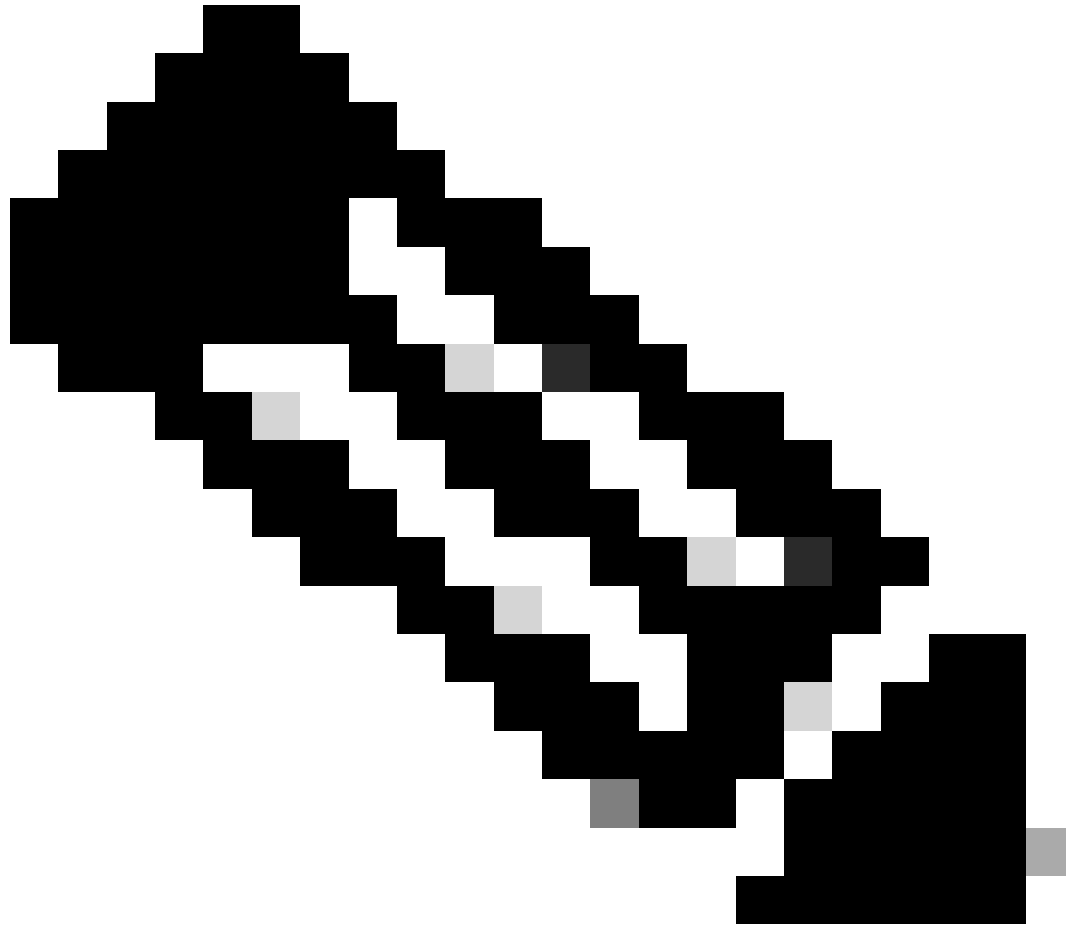


참고: 이 템플릿은 RTM 데이터가 계산되었을 때 Flow Sensor 엔진의 플로우 슬롯에서 IPv4 플로우 정보의 초기 v9 내보내기에 사용됩니다.

```
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 - 템플릿 327



참고: 이 템플릿은 Export Packet Payload(패킷 페이로드 내보내기) 확인란이 선택되고 RTM 데이터가 계산된 경우 Flow Sensor 엔진의 흐름 슬롯에서 IPv4 흐름 정보를 처음 v9 내보내는 데 사용됩니다.

```
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

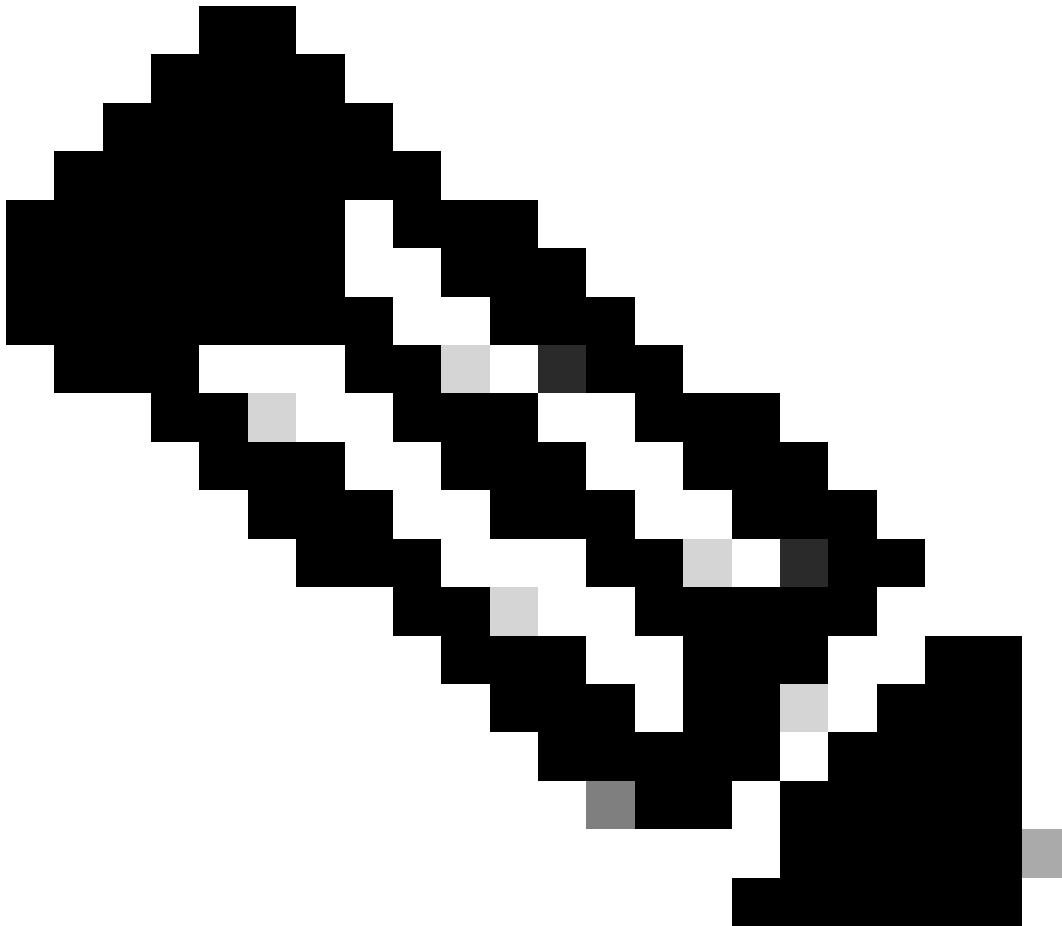
IPv4 Flow Response Time Monitoring - 템플릿 328

참고: 이 템플릿은 RTM 데이터가 계산될 때 Flow Sensor 엔진의 플로우 슬롯에서 IPv4 플로우 정보의 후속 v9 내보내기에 사용됩니다.

```
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 - 템플릿 329



참고: 이 템플릿은 RTM 데이터가 계산되었을 때 Flow Sensor 엔진의 플로우 슬롯에서 IPv6 플로우 정보의 초기 v9 내보내기에 사용됩니다.

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 - 템플릿 330

참고: 이 템플릿은 Export Packet Payload(패킷 페이로드 내보내기) 확인란이 선택되고 RTM 데이터가 계산된 경우 Flow Sensor 엔진의 흐름 슬롯에서 IPv6 흐름 정보를 처음 v9 내보내는 데 사용됩니다.

```
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

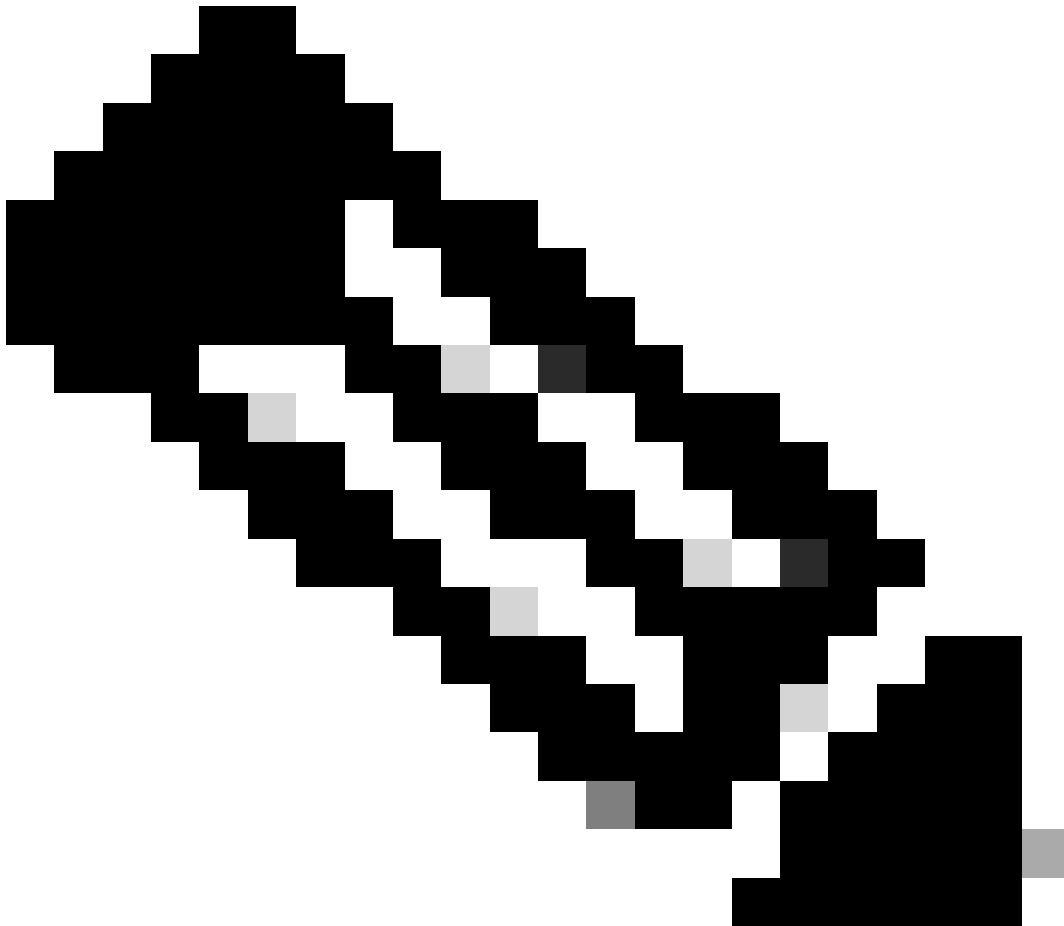
IPv6 Flow Response Time Monitoring - 템플릿 331

참고: 이 템플릿은 RTM 데이터가 계산될 때 Flow Sensor 엔진의 플로우 슬롯에서 IPv6 플로우 정보의 후속 v9 내보내기에 사용됩니다.

```
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

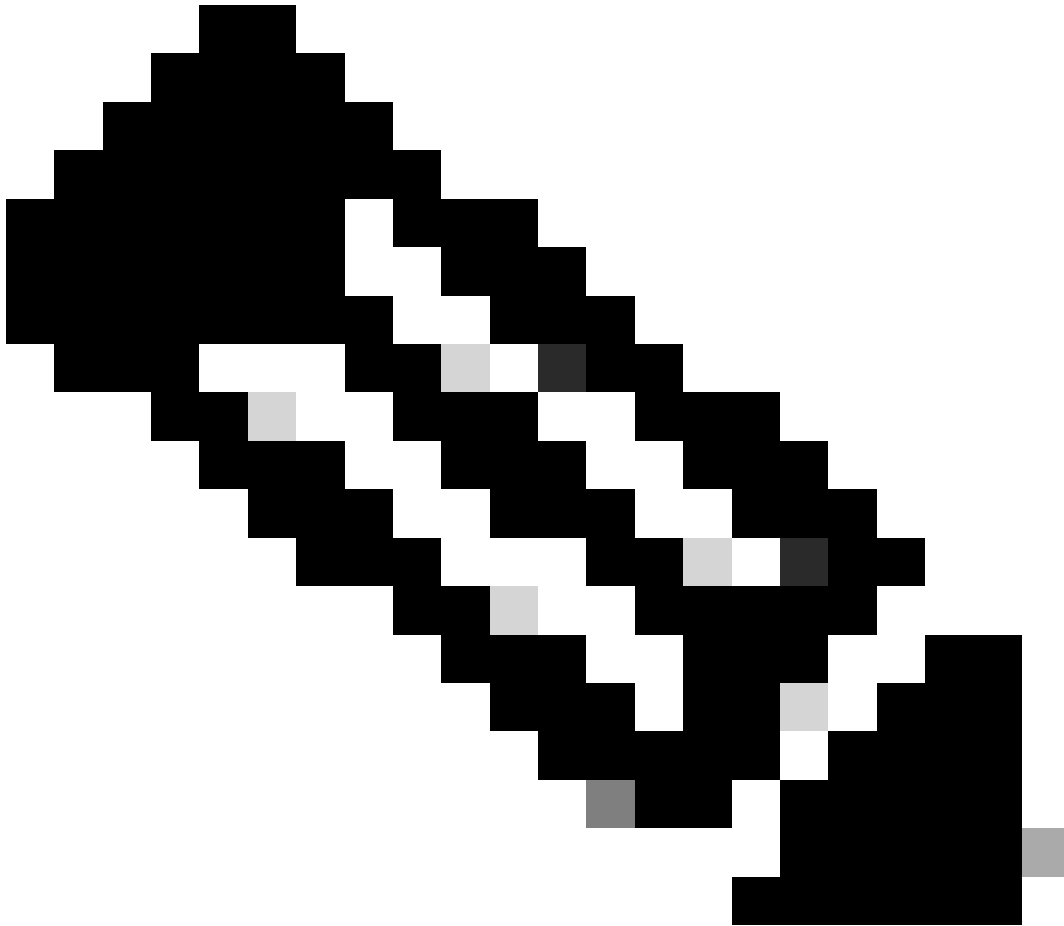
IPv4 대상 이메일 수 - 템플릿 332



참고: 이 템플릿은 Flow Sensor 엔진에서 탐지된 대상 IP 주소가 수신한 IPv4 이메일 카운트 정보를 v9 내보내는 데 사용됩니다.

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_TRYS, 4
NF_F_FLOWSENSOR_DST_EMAIL_OUT_TRYS, 4

IPv6 소스 이메일 수 - 템플릿 333

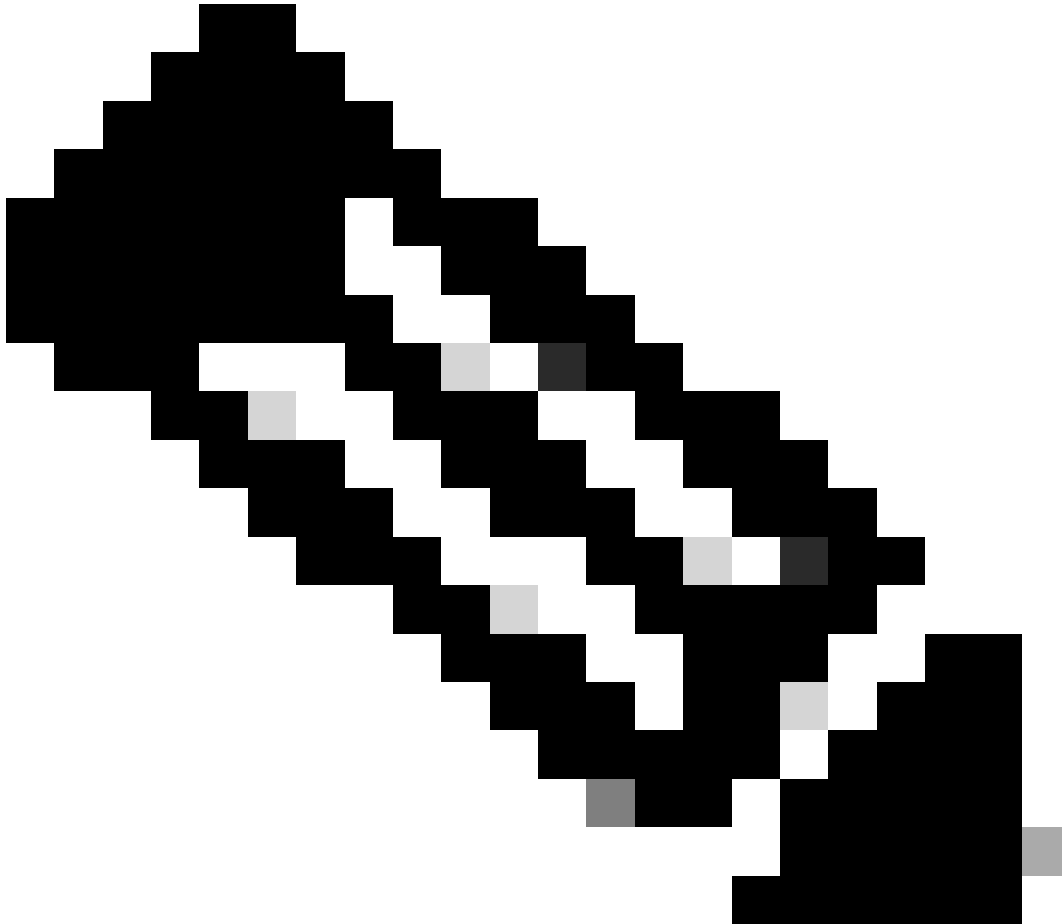


참고: 이 템플릿은 Flow Sensor 엔진에서 탐지된 소스 IP 주소에서 소싱된 IPv6 이메일 카운트 정보의 v9 내보내기에 사용됩니다.

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 대상 이메일 수 - 템플릿 334

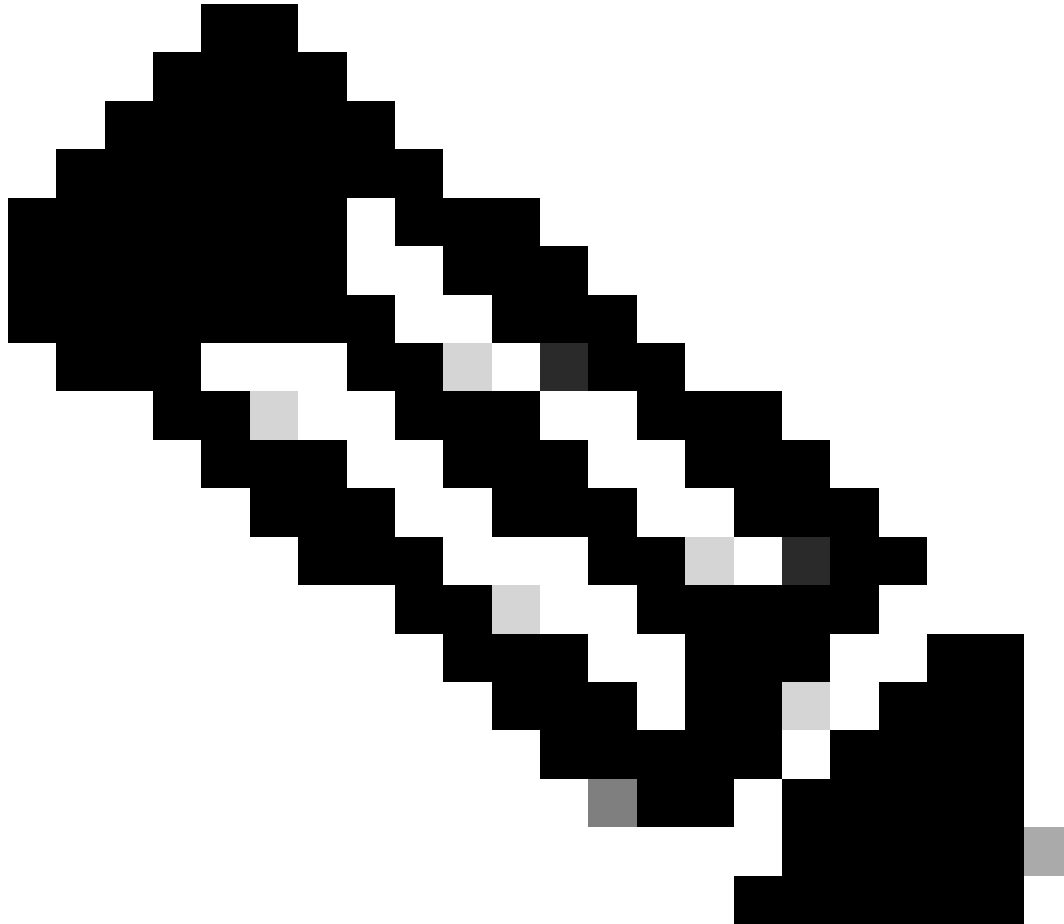


참고: 이 템플릿은 Flow Sensor 엔진에서 탐지된 대상 IP 주소가 수신한 IPv6 이메일 카운트 정보를 v9 내보내는 데 사용됩니다.

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 첫 번째 흐름 IPFIX 템플릿 335



참고: 이 템플릿은 Flow Sensor 엔진의 플로우 슬롯에서 IPv4 플로우 정보의 초기 IPFIX 내 보내기에 사용됩니다.

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 - 템플릿 336



참고: 이 템플릿은 Export Packet Payload(패킷 페이로드 내보내기) 확인란이 선택된 경우 Flow Sensor 엔진의 플로우 슬롯에서 IPv4 플로우 정보의 초기 IPFIX 내보내기에 사용됩니다.

```
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 플로우 IPFIX - 템플릿 337

참고: 이 템플릿은 Flow Sensor 엔진의 플로우 슬롯에서 IPv4 플로우 정보의 후속 IPFIX 내 보내기에 사용됩니다.

```
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

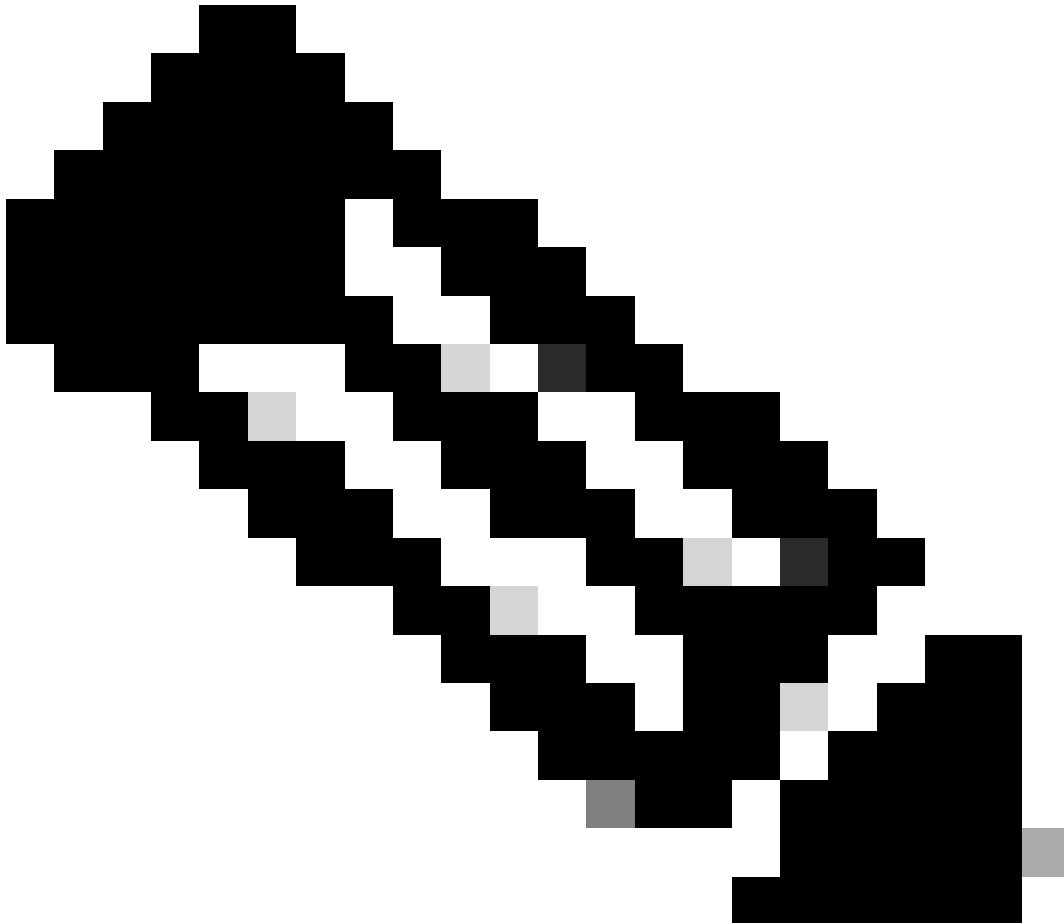
IPv4 이벤트 IPFIX - 템플릿 338

참고: 이 템플릿은 Flow Sensor 엔진에서 탐지된 IPv4 불량 프래그먼트 및 플래그 조합 카운트의 IPFIX 내보내기에 사용됩니다.

```
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 - 템플릿 339



참고: 이 템플릿은 Flow Sensor 엔진의 플로우 슬롯에서 IPv6 플로우 정보의 초기 IPFIX 내 보내기에 사용됩니다.

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 - 템플릿 340

참고: 이 템플릿은 Export Packet Payload(패킷 페이로드 내보내기) 확인란이 선택된 경우 Flow Sensor 엔진의 플로우 슬롯에서 IPv6 플로우 정보의 초기 IPFIX 내보내기에 사용됩니다.

```
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 플로우 IPFIX - 템플릿 341

참고: 이 템플릿은 Flow Sensor 엔진의 플로우 슬롯에서 IPv6 플로우 정보의 후속 IPFIX 내 보내기에 사용됩니다.

```
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

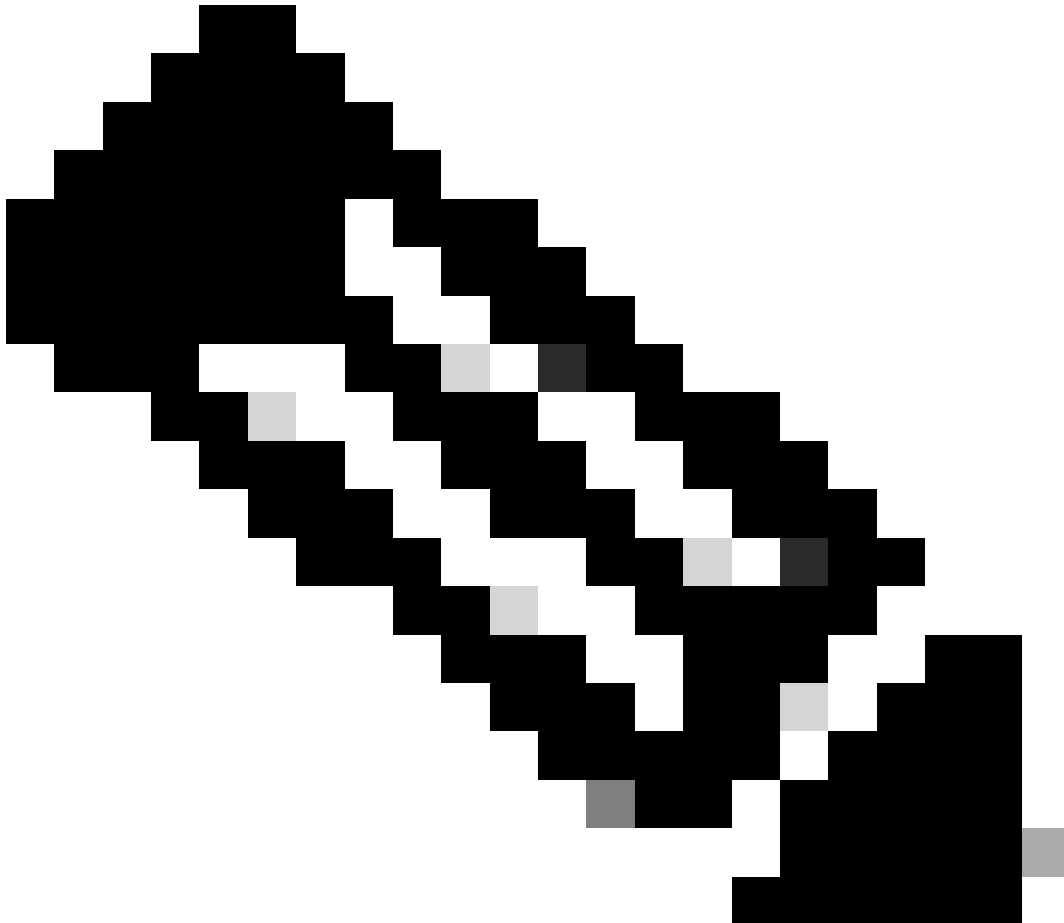
IPv6 이벤트 IPFIX - 템플릿 342

참고: 이 템플릿은 Flow Sensor 엔진에서 탐지된 IPv6 불량 프래그먼트 및 플래그 조합 카운트의 IPFIX 내보내기에 사용됩니다.

```
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

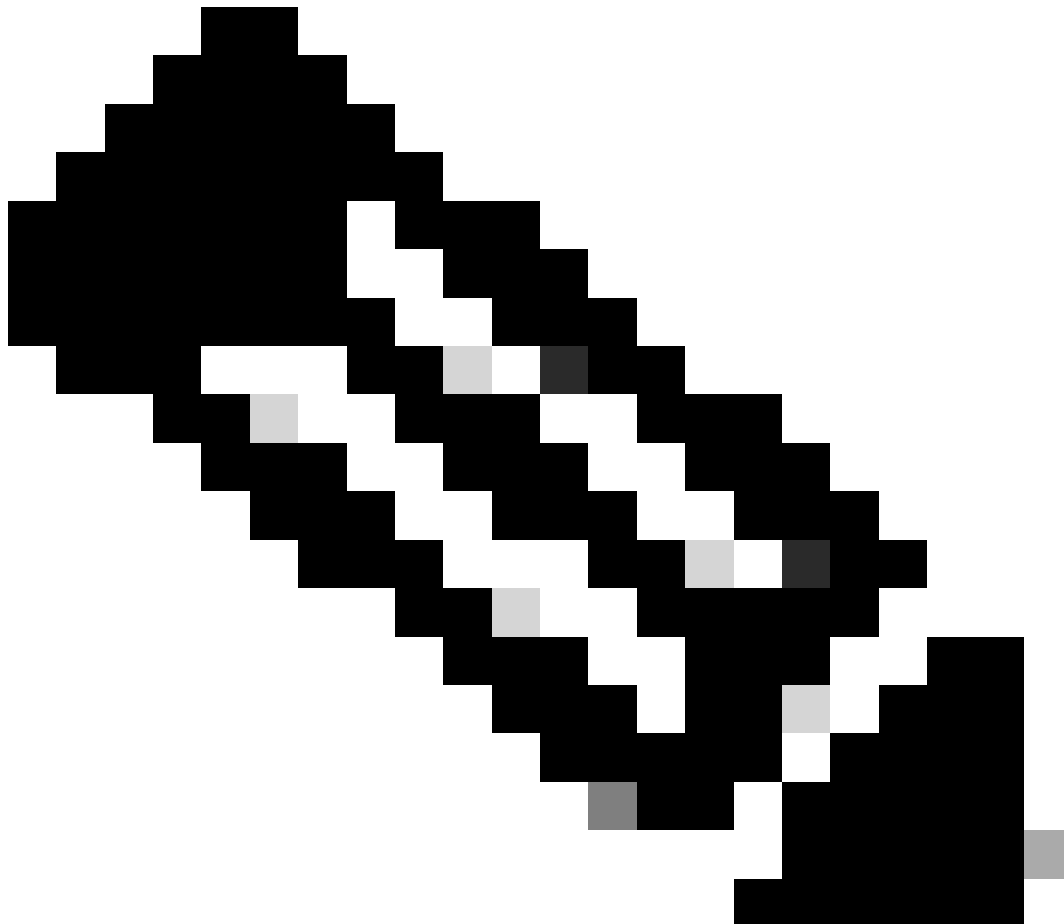
IPv4 소스 이메일 수 IPFIX - 템플릿 343



참고: 이 템플릿은 Flow Sensor 엔진에서 탐지된 소스 IP 주소에서 소싱된 IPv4 이메일 카운트 정보의 IPFIX 내보내기에 사용됩니다.

```
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 - 템플릿 344



참고: 이 템플릿은 RTM 데이터가 계산될 때 Flow Sensor 엔진의 흐름 슬롯에서 IPv4 흐름 정보의 초기 IPFIX 내보내기에 사용됩니다.

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 - 템플릿 345



참고: 이 템플릿은 Export Packet Payload(패킷 페이로드 내보내기) 확인란이 선택된 경우 Flow Sensor 엔진의 플로우 슬롯에서 IPv4 플로우 정보의 초기 IPFIX 내보내기에 사용됩니다.

```
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 - 템플릿 346

참고: 이 템플릿은 RTM 데이터가 계산되었을 때 플로우 센서 엔진의 플로우 슬롯에서 IPv4 플로우 정보의 후속 IPFIX 내보내기에 사용됩니다.

```
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 - 템플릿 347

참고: 이 템플릿은 RTM 데이터가 계산될 때 Flow Sensor 엔진의 흐름 슬롯에서 IPv6 흐름 정보의 초기 IPFIX 내보내기에 사용됩니다.

```
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 - 템플릿 348



참고: 이 템플릿은 Export Packet Payload(패킷 페이로드 내보내기) 확인란이 선택된 경우 Flow Sensor 엔진의 플로우 슬롯에서 IPv6 플로우 정보의 초기 IPFIX 내보내기에 사용됩니다.

```
IPV6_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_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 - 템플릿 349

참고: 이 템플릿은 RTM 데이터가 계산될 때 Flow Sensor 엔진의 플로우 슬롯에서 IPv6 플로우 정보의 후속 IPFIX 내보내기에 사용됩니다.

```
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
```

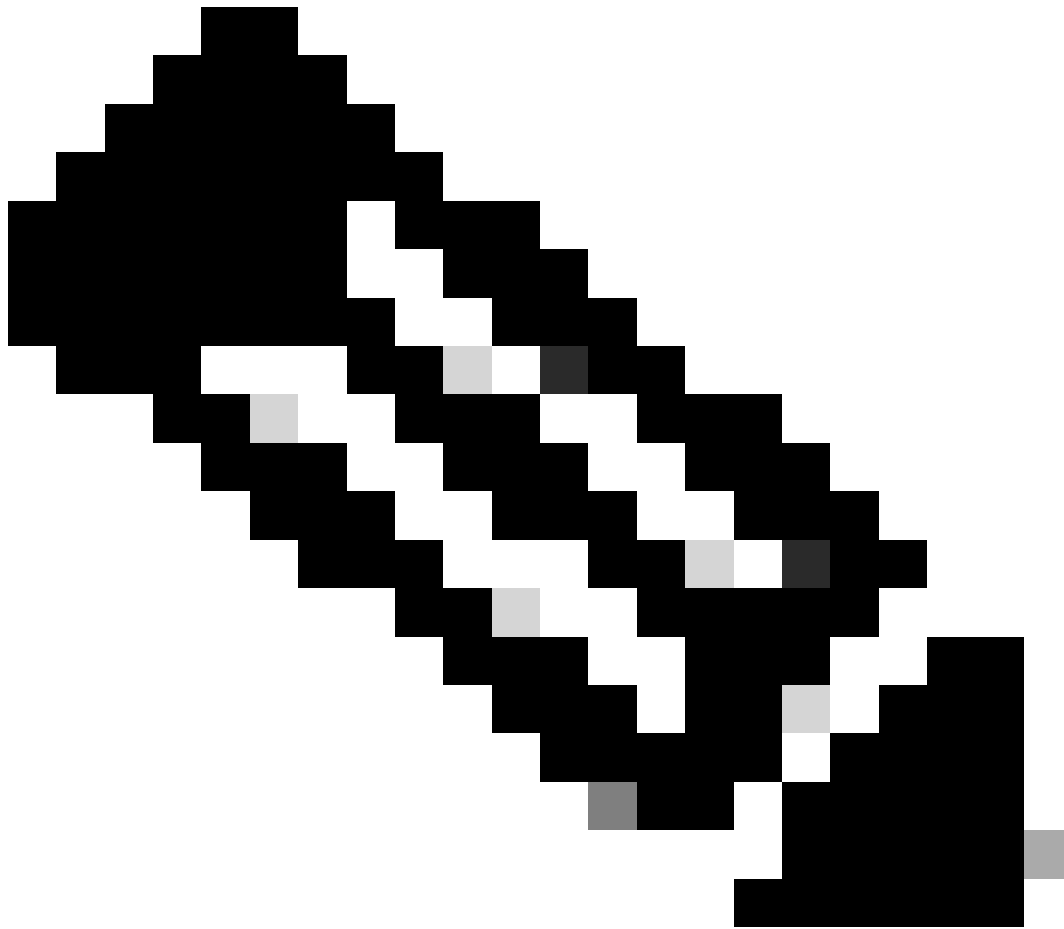
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
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 대상 이메일 수 IPFIX - 템플릿 350

참고: 이 템플릿은 Flow Sensor 엔진에서 탐지된 대상 IP 주소가 수신한 IPv4 이메일 카운트 정보의 IPFIX 내보내기에 사용됩니다.

```
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
```

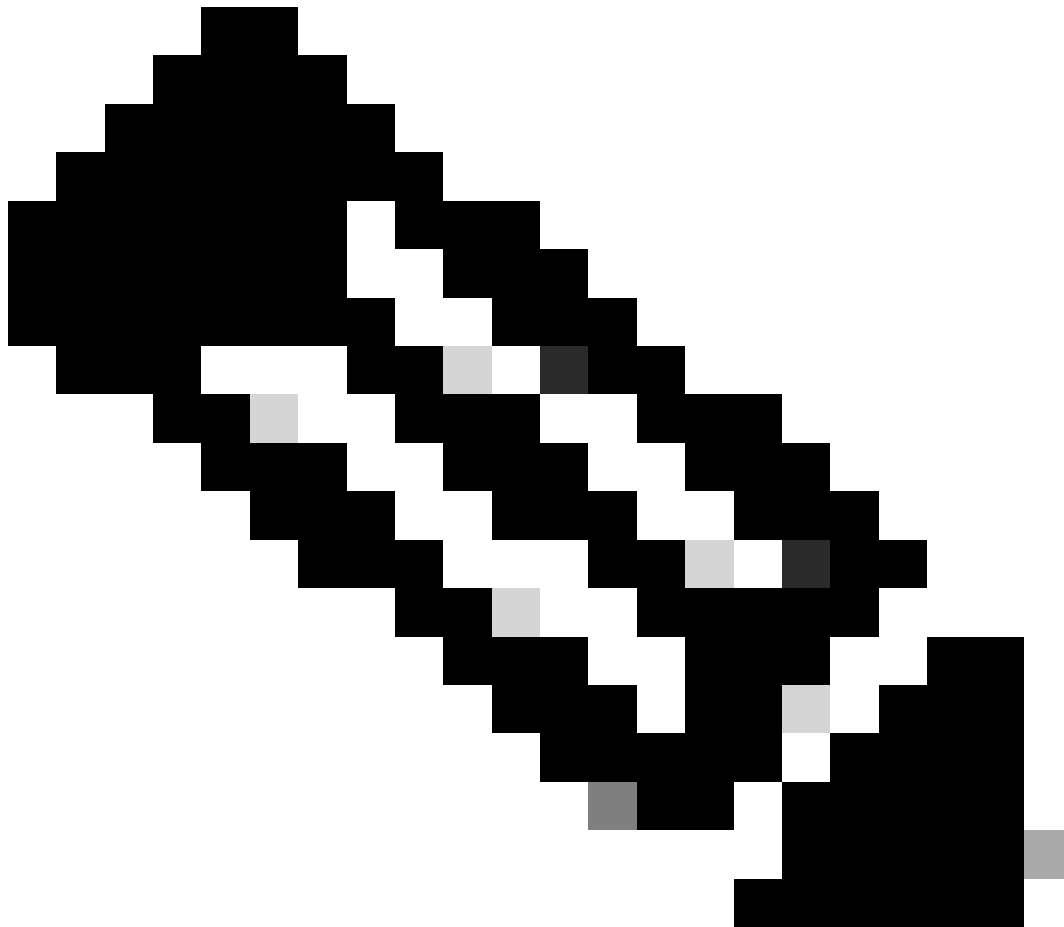
IPv6 소스 이메일 수 IPFIX - 템플릿 351



참고: 이 템플릿은 Flow Sensor 엔진에서 탐지된 소스 IP 주소에서 소싱된 IPv6 이메일 카운트 정보의 IPFIX 내보내기에 사용됩니다.

```
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
```

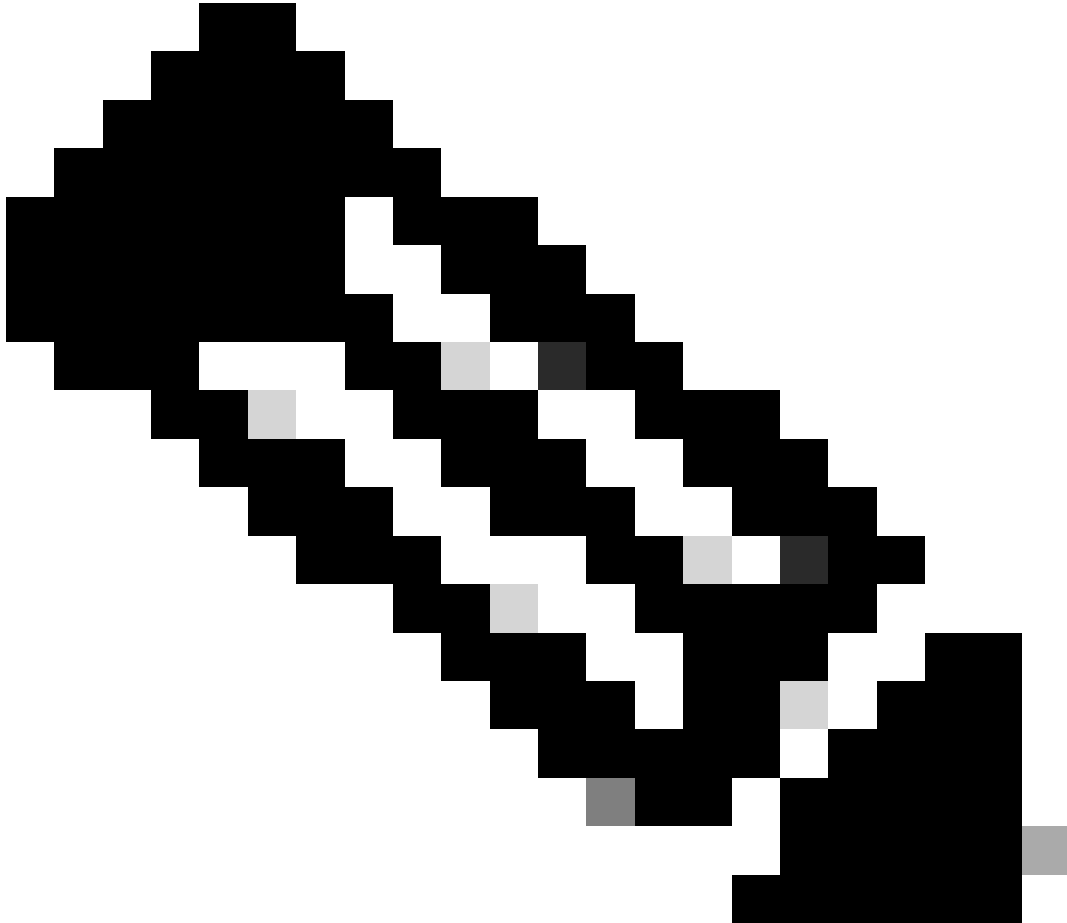
IPv6 대상 이메일 수 IPFIX - 템플릿 352



참고: 이 템플릿은 Flow Sensor 엔진에서 탐지된 대상 IP 주소가 수신한 IPv6 이메일 수 정보의 IPFIX 내보내기에 사용됩니다.

```
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
```

ETTA 템플릿 353-372



참고: 이 템플릿은 Flow Sensor에서 ETA 데이터를 전송하는 데 사용됩니다. 이 템플릿들의 내용은 이 글의 작성에 사용할 수 없었다.

이 번역에 관하여

Cisco는 전 세계 사용자에게 다양한 언어로 지원 콘텐츠를 제공하기 위해 기계 번역 기술과 수작업 번역을 병행하여 이 문서를 번역했습니다. 아무리 품질이 높은 기계 번역이라도 전문 번역가의 번역 결과물만큼 정확하지는 않습니다. Cisco Systems, Inc.는 이 같은 번역에 대해 어떠한 책임도 지지 않으며 항상 원본 영문 문서(링크 제공됨)를 참조할 것을 권장합니다.