• **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1**

show asp drop 명령 사용법

최종 업데이트: 2019년 3월 13일

가속화된 보안 경로에 의해 삭제된 패킷 또는 연결을 디버깅하려면 특권 실행 모드에서 **show asp drop** 명령을 사용합 니다.

show asp drop [flow [flow_drop_reason] | frame [frame_drop_reason]]

구문 설명

flow [flow_drop_reason]	(선택 사항) 삭제된 플로우(연결)를 표시합니다. flow_drop_reason 인수를 사용하여 특 정 이유를 지정할 수 있습니다. ?를 사용하여 가능한 플로우 삭제 이유의 목록을 확인합 니다.
frame	(선택 사항) 삭제된 패킷을 표시합니다. frame_drop_reason 인수를 사용하여 특정 이유
[frame_drop_reason]	를 지정할 수 있습니다. ? 를 사용하여 가능한 프레임 삭제 이유의 목록을 확인합니다.

기본값

기본 동작 또는 값은 없습니다.

명령 모드

다음 표에는 명령을 입력할 수 있는 모드가 나와 있습니다.

명령 모드	방화벽 모드		보안 상황		
	라우팅됨	투 명	단일	다중	
				상황	시스템
특권 실행	 예 	■ Ø	 예 	■ ਅ	■ 예

명령 기록

Release	수정 사항
7.0(1)	이 명령이 추가되었습니다.
7.0(8)/7.2(4)/8.0(4)	출력에는 카운터가 마지막으로 지워진 시간을 나타내는 타임스탬프가 포함됩니다(clear asp drop 명령 참조). 또한 설명 옆에 삭제 이유 키워드도 표시되므로 관련 키워드와 함께 capture asp-drop 명령을 쉽게 사용할 수 있습니다.

사용 지침

show asp drop 명령은 가속화된 보안 경로에 의해 삭제된 패킷 또는 연결을 표시하여 트러블슈팅을 도와줍니다. 가속 화된 보안 경로에 대한 자세한 정보는 일반적인 작업 컨피그레이션 가이드의 내용을 참조하십시오. 이 정보는 디버깅용 으로만 사용되며 정보 출력은 변경될 수 있습니다. 이 명령을 사용하여 시스템을 디버깅하는 과정에서 지원을 받으려면 Cisco TAC에 문의하십시오.

다음 섹션에는 각 삭제 이유 이름 및 설명과 권장 사항이 나와 있습니다.

- 프레임 삭제 이유, 2페이지
- 플로우 삭제 이유, 105페이지

프레임 삭제 이유

Name: natt-keepalive NAT-T keepalive message:

This counter will increment when the appliance receives an IPSec NAT-T keepalive message. NAT-T keepalive messages are sent from the IPSec peer to the appliance to keep NAT/PAT flow information current in network devices between the NAT-T IPSec peer and the appliance.

Recommendation:

If you have configured IPSec NAT-T on your appliance, this indication is normal and doesn't indicate a problem. If NAT-T is not configured on your appliance, analyze your network traffic to determine the source of the NAT-T traffic.

Syslogs: None

Name: ipsecudp-keepalive IPSEC/UDP keepalive message:

This counter will increment when the appliance receives an IPSec over UDP keepalive message. IPSec over UDP keepalive messages are sent from the IPSec peer to the appliance to keep NAT/PAT flow information current in network devices between the IPSec over UDP peer and the appliance. Note - These are not industry standard NAT-T keepalive messages which are also carried over UDP and addressed to UDP port 4500.

Recommendation:

If you have configured IPSec over UDP on your appliance, this indication is normal and doesn't indicate a problem. If IPSec over UDP is not configured on your appliance, analyze your network traffic to determine the source of the IPSec over UDP traffic.

Syslogs: None

Name: bad-ipsec-prot

IPSec not AH or ESP:

This counter will increment when the appliance receives a packet on an IPSec connection which is not an AH or ESP protocol. This is not a normal condition.

```
Recommendation:
   If you are receiving many IPSec not AH or ESP indications on your appliance, analyze
your network traffic to determine the source of the traffic.
Syslogs:
   402115
 _____
Name: ipsec-ipv6
IPSec via IPV6:
   This counter will increment when the appliance receives an IPSec ESP packet, IPSec NAT-T
ESP packet or an IPSec over UDP ESP packet encapsulated in an IP version 6 header. The
appliance does not currently support any IPSec sessions encapsulated in IP version 6.
Recommendation:
   None
Syslogs:
   None
_____
Name: bad-ipsec-natt
BAD IPSec NATT packet:
   This counter will increment when the appliance receives a packet on an IPSec connection
which has negotiated NAT-T but the packet is not addressed to the NAT-T UDP destination port
of 4500 or had an invalid payload length.
Recommendation:
   Analyze your network traffic to determine the source of the NAT-T traffic.
Syslogs:
   None
_____
Name: bad-ipsec-udp
BAD IPSec UDP packet:
   This counter will increment when the appliance receives a packet on an IPSec connection
which has negotiated IPSec over UDP but the packet has an invalid payload length.
Recommendation:
   Analyze your network traffic to determine the source of the NAT-T traffic.
Syslogs:
   None
_____
Name: ipsec-need-sa
IPSec SA not negotiated yet:
   This counter will increment when the appliance receives a packet which requires
```

encryption but has no established IPSec security association. This is generally a normal condition for LAN-to-LAN IPSec configurations. This indication will cause the appliance to begin ISAKMP negotiations with the destination peer.

Recommendation: If you have configured IPSec LAN-to-LAN on your appliance, this indication is normal and doesn't indicate a problem. However, if this counter increments rapidly it may indicate a crypto configuration error or network error preventing the ISAKMP negotiation from completing. Verify that you can communicate with the destination peer and verify your crypto configuration via the 'show running-config' command. Syslogs: None _____ Name: ipsec-spoof IPSec spoof detected: This counter will increment when the appliance receives a packet which should have been encrypted but was not. The packet matched the inner header security policy check of a configured and established IPSec connection on the appliance but was received unencrypted. This is a security issue. Recommendation: Analyze your network traffic to determine the source of the spoofed IPSec traffic. Syslogs: 402117 _____ Name: ipsec-clearpkt-notun IPSec Clear Pkt w/no tunnel: This counter will increment when the appliance receives a packet which should have been encrypted but was not. The packet matched the inner header security policy check of a configured and established IPSec connection on the appliance but was received unencrypted. This is a security issue. Recommendation: Analyze your network traffic to determine the source of the spoofed IPSec traffic. Syslogs: 402117 Name: ipsec-tun-down IPSec tunnel is down: This counter will increment when the appliance receives a packet associated with an IPSec connection which is in the process of being deleted. Recommendation: This is a normal condition when the IPSec tunnel is torn down for any reason. Syslogs: None _____ Name: invalid-encryption-packet Invalid encryption packet received: This counter will increment when the appliance receives a packet associated with an IPSec connection on a flow that does not have encrypt flags on.

Recommendation:

It is possible to see this counter increment as part of normal operation. However, if the counter is rapidly incrementing and there is a traffic disruption, then this may be caused by a misconfiguration or a software defect.

Syslogs: None

Name: mp-svc-delete-in-progress

SVC Module received data while connection was being deleted:

This counter will increment when the security appliance receives a packet associated with an SVC connection that is in the process of being deleted.

Recommendation:

This is a normal condition when the SVC connection is torn down for any reason. If this error occurs repeatedly or in large numbers, it could indicate that clients are having network connectivity issues.

Syslogs:

None.

Name: mp-svc-bad-framing

SVC Module received badly framed data:

This counter will increment when the security appliance receives a packet from an SVC or the control software that it is unable to decode.

Recommendation:

This indicates that a software error should be reported to the Cisco TAC. The SVC or security appliance could be at fault.

Syslogs:

722037 (Only for SVC received data).

Name: mp-svc-bad-length

SVC Module received bad data length:

This counter will increment when the security appliance receives a packet from an SVC or the control software where the calculated and specified lengths do not match.

Recommendation:

This indicates that a software error should be reported to the Cisco TAC. The SVC or security appliance could be at fault.

Syslogs:

722037 (Only for SVC received data).

Name: mp-svc-unknown-type

SVC Module received unknown data frame:

This counter will increment when the security appliance receives a packet from an SVC where the data type is unknown.

Recommendation: Validate that the SVC being used by the client is compatible with the version of security appliance software. Syslogs: None. _____ Name: mp-svc-addr-renew-response SVC Module received address renew response data frame: This counter will increment when the security appliance receives an Address Renew Response message from an SVC. The SVC should not be sending this message. Recommendation: This indicates that an SVC software error should be reported to the Cisco TAC. Syslogs: None. _____ Name: mp-svc-no-prepend SVC Module does not have enough space to insert header: This counter will increment when there is not enough space before the packet data to prepend a MAC header in order to put the packet onto the network. Recommendation: This indicates that a software error should be reported to the Cisco TAC. Syslogs: None. _____ Name: mp-svc-no-channel SVC Module does not have a channel for reinjection: This counter will increment when the interface that the encrypted data was received upon cannot be found in order to inject the decrypted data. Recommendation: If an interface is shut down during a connection, this could happen; re-enable/check the interface. Otherwise, this indicates that a software error should be reported to the Cisco TAC. Syslogs: None. _____ Name: mp-svc-no-session SVC Module does not have a session: This counter will increment when the security appliance cannot determine the SVC session that this data should be transmitted over. Recommendation: This indicates that a software error should be reported to the Cisco TAC.

```
Syslogs:
  None.
  _____
Name: mp-send-cp-fail
SVC Module send CP error failed:
   This counter will increment when the security appliance cannot send the error
information to CP.
Recommendation:
   This indicates that a software error should be reported to the Cisco TAC.
Syslogs:
  None.
  _____
Name: mp-svc-session-lock-failure
SVC Module failed to acquire the session lock:
   This counter will increment when the security appliance cannot grab the lock for the SVC
session that this data should be transmitted over.
Recommendation:
   This condition should never be encountered during normal operation and
                                                                    may indicate
a software problem with the appliance. Contact the Cisco
                                                     Technical Assistance Center
(TAC) if this error occurs.
Syslogs:
   None.
_____
Name: mp-svc-decompress-error
SVC Module decompression error:
   This counter will increment when the security appliance encounters an error during
decompression of data from an SVC.
Recommendation:
   This indicates that a software error should be reported to the Cisco TAC. The SVC or
security appliance could be at fault.
Syslogs:
  722037.
_____
Name: mp-svc-compress-error
SVC Module compression error:
   This counter will increment when the security appliance encounters an error during
compression of data to an SVC.
Recommendation:
   This indicates that a software error should be reported to the Cisco TAC. The SVC or
security appliance could be at fault.
Syslogs:
  722037.
```

_____ Name: mp-svc-no-mac SVC Module unable to find L2 data for frame: This counter will increment when the security appliance is unable to find an L2 MAC header for data received from an SVC. Recommendation: This indicates that a software error should be reported to the Cisco TAC. Syslogs: None. _____ Name: mp-svc-invalid-mac SVC Module found invalid L2 data in the frame: This counter will increment when the security appliance is finds an invalid L2 MAC header attached to data received from an SVC. Recommendation: This indicates that a software error should be reported to the Cisco TAC. Syslogs: None. _____ Name: mp-svc-invalid-mac-len SVC Module found invalid L2 data length in the frame: This counter will increment when the security appliance is finds an invalid L2 MAC length attached to data received from an SVC. Recommendation: This indicates that a software error should be reported to the Cisco TAC. Syslogs: None. _____ Name: mp-svc-flow-control SVC Session is in flow control: This counter will increment when the security appliance needs to drop data because an SVC is temporarily not accepting any more data. Recommendation: This indicates that the client is unable to accept more data. The client should reduce the amount of traffic it is attempting to receive. Syslogs: None. _____ Name: mp-svc-no-fragment SVC Module unable to fragment packet: This counter is incremented when a packet to be sent to the SVC is not permitted to be

fragmented or when there are not enough data buffers to fragment the packet.

```
Recommendation:
   Increase the MTU of the SVC to reduce fragmentation. Avoid using applications that do
not permit fragmentation. Decrease the load on the device to increase available data
buffers.
Syslogs:
   None.
 _____
Name: mp-svc-bad-compress
SVC Module unable to compress a packet:
   This counter is incremented when a packet to be sent to an AnyConnect client is not able
to be compressed.
Recommendation:
   Disable all compression for the AnyConnect client.
Syslogs:
   None.
  _____
Name: mp-svc-bad-decompress
SVC Module unable to decompress a packet:
   This counter is incremented when a packet received from an AnyConnect client is not able
to be decompressed.
Recommendation:
   Disable all compression for the AnyConnect client.
Syslogs:
   None.
_____
Name: vpn-handle-error
VPN Handle Error:
   This counter is incremented when the appliances is unable to create a VPN handle because
the VPN handle already exists.
Recommendation:
   It is possible to see this counter increment as part of normal operation However, if the
counter is rapidly incrementing and there is a major malfunction of vpn-based applications,
then this may be caused by a software defect. Contact the Cisco TAC to investigate the issue
further.
Syslogs:
   None.
          _____
Name: ipsec-lock-error
IPSec locking error:
   This counter is incremented when an IPSec operation is attempted but fails due to an
internal locking error.
```

Recommendation: This condition should never be encountered during normal operation and may indicate a software problem with the appliance. Contact the Cisco Technical Assistance Center (TAC) if this error occurs. Syslogs: None. _____ Name: vpn-handle-mismatch VPN Handle Mismatch: This counter is incremented when the appliance wants to forward a block and the flow referred to by the VPN Handle is different than the flow associated with the block. Recommendation: This is not a normal occurrence. Please perform a "show console-output" and forward that output to CISCO TAC for further analysis Syslogs: None. _____ Name: vpn-reclassify-failed VPN Reclassify Failed: This counter is incremented when a packet for a VPN flow is dropped due to the flow failing to be reclassified after a VPN state change. Recommendation: This counter is incremented when a packet for a VPN flow arrives that requires reclassification due to VPN CLI or Tunnel state changes. If the flow no longer matches the existing policies, then the flow is freed and the packet dropped. Syslogs: No new syslogs accompany this event. _____ Name: vpn-lock-error IPSec locking error: This counter is incremented when VPN flow cannot be created due to an internal locking error. Recommendation: This condition should never be encountered during normal operation and may indicate a software problem with the appliance. Contact the Cisco Technical Assistance Center (TAC) if this error occurs. Syslogs: None. _____ Name: vpn-context-expired Expired VPN context: This counter will increment when the security appliance receives a packet that requires encryption or decryption, and the ASP VPN context required to perform the operation is no longer valid.

Recommendation: This indicates that a software error should be reported to the Cisco TAC. Syslogs: None _____ Name: vpn-overlap-conflict VPN Network Overlap Conflict: When a packet is decrypted the inner packet is examined against the crypto map configuration. If the packet matches a different crypto map entry than the one it was received on it will be dropped and this counter will increment. A common cause for this is two crypto map entries containing similar/overlapping address spaces. Recommendation: Check your VPN configuration for overlapping networks. Verify the order of your crypto maps and use of 'deny' rules in ACLs. Syslogs: None _____ Name: ipsec-selector-failure IPSec VPN inner policy selector mismatch detected: This counter is incremented when an IPSec packet is received with an inner IP header that does not match the configured policy for the tunnel. Recommendation: Verify that the crypto ACLs for the tunnel are correct and that all acceptable packets are included in the tunnel identity. Verify that the box is not under attack if this message is repeatedly seen. Syslogs: 402116 _____ Name: tunnel-pending Tunnel being brought up or torn down: This counter will increment when the appliance receives a packet matching an entry in the security policy database (i.e. crypto map) but the security association is in the process of being negotiated; its not complete yet. This counter will also increment when the appliance receives a packet matching an entry in the security policy database but the security association has been or is in the process of being deleted. The difference between this indication and the 'Tunnel has been torn down' indication is that the 'Tunnel has been torn down' indication is for established flows.

Recommendation:

This is a normal condition when the IPSec tunnel is in the process of being negotiated or deleted.

Syslogs: None show asp drop 명령 사용법

_____ Name: punt-rate-limit Punt rate limit exceeded: This counter will increment when the appliance attempts to forward a layer-2 packet to a rate-limited control point service routine and the rate limit (per/second) is now being exceeded. Currently, the only layer-2 packets destined for a control point service routine which are rate limited are ARP packets. The ARP packet rate limit is 500 ARPs per second per interface. Recommendation: Analyze your network traffic to determine the reason behind the high rate of ARP packets. Syslogs: 322002, 322003 Name: punt-no-mem Punt no memory: This counter is incremented and the packet is dropped when there is no memory to create data structure for punting a packet to Control Point. Recommendation: No action needs to be taken if this condition is transient. If this condition persists due to low memory, then system upgrade might be necessary. Syslogs: None _____ Name: punt-queue-limit Punt queue limit exceeded: This counter is incremented and the packet is dropped when punt queue limit is exceeded, an indication that a bottle-neck is forming at Control Point. Recommendation: No action needs to be taken. This is a design limitation. Syslogs: None _____ Name: flow-being-freed Flow is being freed: This counter is incremented when the flow is being freed and all packets queued for inspection are dropped. Recommendation: No action needs to be taken. Syslogs: None _____ Name: invalid-encap Invalid Encapsulation:

This counter is incremented when the security appliance receives a frame belonging to an unsupported link-level protocol or if the L3type specified in the frame is not supported by the appliance. The packet is dropped.

Recommendation:

Verify that directly connected hosts have proper link-level protocol settings.

Syslogs:

None.

Name:	invalid-ip-header	

Invalid IP header:

This counter is incremented and the packet is dropped when the appliance receives an IP packet whose computed checksum of the IP header does not match the recorded checksum in the header.

Recommendation:

The packet corruption may be caused by a bad cable or noise on the line. It may also be that a peer is sending corrupted packets and an attack is in progress. Please use the packet capture feature to learn more about the origin of the packet.

Syslogs: None

```
_____
```

Name: unsupported-ip-version

Unsupported IP version:

This counter is incremented when the security appliance receives an IP packet that has an unsupported version in version field of IP header. Specifically, if the packet does not belong to version 4 or version 6. The packet is dropped.

Recommendation:

Verify that other devices on connected network are configured to send IP packets belonging to versions 4 or 6 only.

Syslogs:

None.

Name: ttl-exceeded

ttl exceeded:

This counter is incremented when the security appliance receives an IP packet whose value of ttl(time to live) has exceeded the allowed limit. Specifically if the packet has ttl value of 1, when set connection decrement-ttl command is configured, or less than 1, the packet is dropped.

Syslogs: None.

Name: hop-limit-exceeded hop-limit exceeded:

This counter is incremented when the security appliance receives an IPv6 packet whose value of hop-limit has exceeded the allowed limit. Specifically if the packet has hop-limit less than 1, the packet is dropped. Syslogs: None. _____ Name: invalid-ip-length Invalid IP Length: This counter is incremented when the security appliance receives an IPv4 or IPv6 packet in which the header length or total length fields in IP header are not valid or do not conform to the received packet length. Recommendation: None. Syslogs: None. _____ Name: invalid-ethertype Invalid Ethertype: This counter is incremented when the fragmentation module on the security appliance receives or tries to send a fragmented packet that does not belong IP version 4 or version 6. The packet is dropped. Recommendation: Verify mtu of device and other devices on connected network to determine why the device is processing such fragments. Syslogs: None. _____ Name: invalid-tcp-hdr-length Invalid TCP Length: This counter is incremented when the security appliance receives a TCP packet whose size is smaller than minimum-allowed header length or does not conform to the received packet length. Recommendation: The invalid packet could be a bogus packet being sent by an attacker. Investigate the traffic from source in the following syslog. Syslogs: 500003. _____ Name: invalid-udp-length Invalid UDP Length:

This counter is incremented when the security appliance receives a UDP packet whose size as calculated from the fields in header is different from the measured size of packet as received from the network.

Recommendation: The invalid packet could be a bogus packet being sent by an attacker. Syslogs: None. _____ Name: invalid-sctp-length Invalid SCTP Length: This counter is incremented when the security appliance recieves a SCTP packet whose common header size is less than the required common header size (12 bytes). Recommendation: The invalid packet could be a bogus packet being sent by an attacker. Syslog: None. _____ Name: no-adjacency No valid adjacency: This counter is incremented when the security appliance has tried to obtian an adjacency and could not obtain mac-address for next hop. The packet is dropped. Recommendation: Configure a capture for this drop reason and check if a host with specified destination address exists on connected network or is routable from the device. Syslogs: None. Name: unexpected-packet Unexpected packet: This counter is incremented when the appliance in transparent mode receives a non-IP packet, destined to it's MAC address, but there is no corresponding service running on the appliance to process the packet. Recommendation: Verify if the appliance is under attack. If there are no suspicious packets, or the device is not in transparent mode, this counter is most likely being incremented due to a software error. Attempt to capture the traffic that is causing the counter to increment and contact the Cisco TAC. Syslogs: None _____ Name: no-route No route to host: This counter is incremented when the security appliance tries to send a packet out of an interface and does not find a route for it in routing table.

```
사용 지침
```

```
Recommendation:
   Verify that a route exists for the destination address obtained from thegenerated
syslog.
Syslogs:
  110001.
 _____
Name: invalid-vxlan-segment-id
Invalid VXLAN segment-id:
   This counter is incremented when the security appliance decapsulates a VXLAN packet
which has an invalid segment-id.
Recommendation:
   No.
Syslogs:
  778001.
_____
Name: invalid-vxlan-segment-id-tvi
Invalid VXLAN segment-id on TVI:
   This counter is incremented when the TVI interface processes a VXLAN packet which has
an invalid segment-id.
Recommendation:
   No.
Syslogs:
  No.
Name: sts-lookup-failure
STS lookup failure:
   This counter is incremented when the security appliance fails to lookup for the out tag
for a given in tag when tag switching is enabled on the VNI interface.
Recommendation:
   Verify that an out tag exists for the in tag obtained from thegenerated syslog.
Syslogs:
  779001.
  _____
Name: no-valid-vni-ifc
No valid VNI interface:
   This counter is incremented when the security appliance fails to identify the VNI
interface by a given segment-id.
Recommendation:
   Verify that the segment-id in the syslog is configured on an interface.
Syslogs:
  778002.
```

```
_____
Name: no-valid-nve-ifc
No valid NVE interface:
   This counter is incremented when the security appliance fails to identify the NVE
interface for a VNI interface.
Recommendation:
   Verify that the nve is configured for all interfaces.
Syslogs:
   None.
 _____
Name: invalid-peer-nve
Invalid peer NVE:
   This counter is incremented when the security appliance fails to get IP and MAC address
of a peer NVE.
Recommendation:
   Verify that peer nve is configured or learned for the nve.
Syslogs:
   None.
_____
Name: vxlan-encap-error
Fail to encap with VXLAN:
   This counter is incremented when the security appliance fails to encapsulate a packet
with VXLAN.
Recommendation:
   No.
Syslogs:
   None.
 _____
Name: sts-nat-diff-egress
STS locates different egress from NAT:
   This counter is incremented when the security appliance locates different egress
interface by STS and NAT.
Recommendation:
   Verify that the NAT configuration on interface shown in the syslog is correct.
Syslogs:
  779002.
     _____
                         _____
Name: invalid-vxlan-segment-id-fp
Invalid VXLAN in-tag:
   This counter is incremented when the security appliance decapsulates a VXLAN packet in
FP which has an invalid segment-id.
```

Recommendation:

사용 지침

```
No.
Syslogs:
   778003.
  _____
Name: vxlan-invalid-header
Invalid VXLAN header format:
   This counter is increamented when the security appliance receives a UDP packet with
correct VXLAN destination port number but failed to decode the VXLAN header.
Recommendation:
   No.
Syslogs:
   778004.
   _____
Name: vxlan-invalid-header-thru-traffic
Invalid VXLAN header format for through-the-box traffic:
   This counter is increamented when the security appliance receives a through-the-box UDP
packet with correct VXLAN destination port number but failed to decode the VXLAN header.
Recommendation:
   No.
Syslogs:
   778008.
_____
Name: vxlan-invalid-udp-checksum
Invalid VXLAN header format:
   This counter is increamented when the security appliance receives a VXLAN packet with
incorrect checksum value in UDP header.
Recommendation:
   No.
Syslogs:
   778006.
_____
Name: vxlan-invalid-nve-peer
VXLAN packet from an invalid NVE peer:
   This counter is increamented when the security appliance receives a VXLAN packet from
an NVE peer that is not configured.
Recommendation:
   No.
Syslogs:
   778007.
```

_____ Name: no-route-to-peer-nve No route to peer NVE: This counter is incremented when the security appliance fails to locate next hop to peer NVE. Recommendation: Verify peer NVE is reachable via source-interface. Syslogs: None. _____ Name: vxlan-invalid-vni-mcast-ip Invalid Multicast IP on VNI interface: This counter is incremented when the security appliance fails to get the multicast group IP from the VNI interface. Recommendation: Verify that in the absence of a configured peer NVE, the VNI interface has a valid multicast group IP configured on it. Syslogs: None. _____ Name: vxlan-missing-peer-vtep-ip Peer VTEP IP not found: This counter is incremented when the security appliance fails to find the peer VTEP IP for an inner destnation IP for VXLAN encapsulation. Recommendation: Verify that in show arp vtep-mapping/show mac-address-table vtep-mapping/show ipv6 neighbor vtep-mapping, the VTEP IP is present for the desired remote inner host. Syslogs: None. _____ Name: rpf-violated Reverse-path verify failed: This counter is incremented when ip-verify is configured on an interface and the security appliance receives a packet for which the route lookup of source-ip did not yield the same interface as the one on which the packet was received. Recommendation: Trace the source of traffic based on source-ip printed in syslog below and investigate why it is sending spoofed traffic. Syslogs: 106021. _____ Name: acl-drop

Flow is denied by configured rule:

This counter is incremented when a drop rule is hit by the packet and gets dropped. This rule could be a default rule created when the box comes up, when various features are turned on or off, when an acl is applied to interface or any other feature etc. Apart from default rule drops, a packet could be dropped because of: 1) ACL configured on an interface 2) ACL configured for AAA and AAA denied the user 3) Thru-box traffic arriving at management-only ifc 4) Unencrypted traffic arriving on a ipsec-enabled interface Recommendation: Note if one of ACLs listed below are fired. Svslogs: 106023, 106100, 106004 _____ Name: no-same-security-traffic No same-security-traffic configured: This counter is incremented when the decrypt and encrypt tunnel is owned by the same interface and same-security-traffic is not configured. Recommendation: Configure "same-security-traffic permit intra-interface". Syslogs: None. Name: unable-to-create-flow Flow denied due to resource limitation: This counter is incremented and the packet is dropped when flow creation fails due to a system resource limitation. The resource limit may be either: 1) system memory 2) packet block extension memory 3) system connection limit Causes 1 and 2 will occur simultaneously with flow drop reason "No memory to complete flow". Recommendation: - Observe if free system memory is low. - Observe if flow drop reason "No memory to complete flow" occurs. - Observe if connection count reaches the system connection limit with the command "show resource usage". Syslogs: None _____ Name: unable-to-add-flow Flow hash full:

This counter is incremented when a newly created flow is inserted into flow hash table and the insertion failed because the hash table was full. The flow and the packet are dropped. This is different from counter that gets incremented when maximum connection limit is reached.

to help isolate the cause.

사용 지침

Recommendation: This message signifies lack of resources on the device to support an operation that should have been successful. Please check if the connections in the 'show conn' output have exceeded their configured idle timeout values. If so, contact the Cisco Technical Assistance Center (TAC). Syslogs: None. _____ Name: np-sp-invalid-spi Invalid SPI: This counter will increment when the appliance receives an IPSec ESP packet addressed to the appliance which specifies a SPI (security parameter index) not currently known by the appliance. Recommendation: Occasional invalid SPI indications are common, especially during rekey processing. Many invalid SPI indications may suggest a problem or DoS attack. If you are experiencing a high rate of invalid SPI indications, analyze your network traffic to determine the source of the ESP traffic. Syslogs: 402114 _____ Name: unsupport-ipv6-hdr Unsupported IPv6 header: This counter is incremented and the packet is dropped if an IPv6 packet is received with an unsupported IPv6 extension header. The supported IPv6 extension headers are: TCP, UDP, ICMPv6, ESP, AH, Hop Options, Destination Options, and Fragment. The IPv6 routing extension header is not supported, and any extension header not listed above is not supported. IPv6 ESP and AH headers are supported only if the packet is through-the-box. To-the-box IPv6 ESP and AH packets are not supported and will be dropped. Recommendation: This error may be due to a misconfigured host. If this error occurs repeatedly or in large numbers, it could also indicate spurious or malicious activity such as an attempted DoS attack. Syslogs: None. _____ Name: tcp-not-syn First TCP packet not SYN: Received a non SYN packet as the first packet of a non intercepted and non nailed connection. Recommendation: Under normal conditions, this may be seen when the appliance has already closed a connection, and the client or server still believe the connection is open, and continue to transmit data. Some examples where this may occur is just after a 'clear local-host' or 'clear xlate' is issued. Also, if connections have not been recently removed, and the counter is incrementing rapidly, the appliance may be under attack. Capture a sniffer trace

Syslogs: 6106015

Name: bad-tcp-cksum Bad TCP checksum:

This counter is incremented and the packet is dropped when the appliance receives a TCP packet whose computed TCP checksum does not match the recorded checksum in TCP header.

Recommendation:

The packet corruption may be caused by a bad cable or noise on the line. It may also be that a TCP endpoint is sending corrupted packets and an attack is in progress. Please use the packet capture feature to learn more about the origin of the packet. To allow packets with incorrect TCP checksum disable checksum-verification feature under tcp-map.

Syslogs: None

Name: bad-tcp-flags

Bad TCP flags:

This counter is incremented and the packet is dropped when the appliance receives a TCP packet with invalid TCP flags in TCP header. Example a packet with SYN and FIN TCP flags set will be dropped.

Recommendations:

The packet corruption may be caused by a bad cable or noise on the line. It may also be that a TCP endpoint is sending corrupted packets and an attack is in progress. Please use the packet capture feature to learn more about the origin of the packet.

Syslogs: None

Name: tcp-reserved-set TCP reserved flags set:

This counter is incremented and the packet is dropped when the appliance receives a TCP packet with reserved flags set in TCP header.

Recommendations:

The packet corruption may be caused by a bad cable or noise on the line. It may also be that a TCP endpoint is sending corrupted packets and an attack is in progress. Please use the packet capture feature to learn more about the origin of the packet. To allow such TCP packets or clear reserved flags and then pass the packet use reserved-bits configuration under tcp-map.

Syslogs: None

Name: tcp-bad-option-list

TCP option list invalid:

This counter is incremented and the packet is dropped when the appliance receives a TCP packet with a non-standard TCP header option.

```
Recommendations:
   To allow such TCP packets or clear non-standard TCP header options and then allow the
packet, use tcp-options configuration under tcp-map.
Syslogs:
   None
_____
Name: tcp-mss-exceeded
TCP data exceeded MSS:
   This counter is incremented and the packet is dropped when the appliance receives a TCP
packet with data length greater than the MSS advertized by peer TCP endpoint.
Recommendations:
   To allow such TCP packets use exceed-mss configuration under tcp-map
Syslogs:
   4419001
_____
Name: tcp-synack-data
TCP SYNACK with data:
   This counter is incremented and the packet is dropped when the appliance receives a TCP
SYN-ACK packet with data.
Recommendations:
   The packet corruption may be caused by a bad cable or noise on the line. It may also be
that a TCP endpoint is sending corrupted packets and an attack is in progress. Please use
the packet capture feature to learn more about the origin of the packet.
Syslogs:
   None
_____
Name: tcp-syn-data
TCP SYN with data:
   This counter is incremented and the packet is dropped when the appliance receives a TCP
SYN packet with data.
Recommendations:
   To allow such TCP packets use syn-data configuration under tcp-map.
Syslogs:
   None
_____
Name: tcp-dual-open
TCP Dual open denied:
   This counter is incremented and the packet is dropped when the appliance recevies a TCP
SYN packet from the server, when an embryonic TCP connection is already open.
Recommendations:
   None
```

```
Syslogs:
   None
         _____
Name: tcp-data-past-fin
TCP data send after FIN:
   This counter is incremented and the packet is dropped when the appliance recevies new
TCP data packet from an endpoint which had sent a FIN to close the connection.
Recommendations:
   None
Syslogs:
   None
  _____
Name: tcp-3whs-failed
TCP failed 3 way handshake:
   This counter is incremented and the packet is dropped when appliance receives an
invalid TCP packet during three-way-handshake. Example SYN-ACK from client will be dropped
for this reason.
Recommendations:
   None
Syslogs:
   None
 _____
Name: tcp-rstfin-ooo
TCP RST/FIN out of order:
   This counter is incremented and the packet is dropped when appliance receives a RST or
a FIN packet with incorrect TCP sequence number.
Recommendations:
   None
Syslogs:
   None
_____
Name: tcp-seq-syn-diff
TCP SEQ in SYN/SYNACK invalid:
   This counter is incremented and the packet is dropped when appliance receives a SYN or
SYN-ACK packet during three-way-handshake with incorrect TCP sequence number.
Recommendations:
   None
Syslogs:
   None
_____
Name: tcp-ack-syn-diff
```

```
TCP ACK in SYNACK invalid:
   This counter is incremented and the packet is dropped when appliance receives a SYN-ACK
packet during three-way-handshake with incorrect TCP acknowledgement number.
Recommendations:
   None
Syslogs:
   None
_____
Name: tcp-syn-ooo
TCP SYN on established conn:
   This counter is incremented and the packet is dropped when appliance receives a TCP SYN
packet on an established TCP connection.
Recommendations:
   None
Syslogs:
   None
_____
Name: tcp-synack-ooo
TCP SYNACK on established conn:
   This counter is incremented and the packet is dropped when appliance receives a TCP
SYN-ACK packet on an established TCP connection.
Recommendations:
   None
Syslogs:
   None
_____
Name: tcp-seq-past-win
TCP packet SEQ past window:
   This counter is incremented and the packet is dropped when appliance receives a TCP data
packet with sequence number beyond the window allowed by the peer TCP endpoint.
Recommendations:
   None
Syslogs:
   None
  _____
Name: tcp-invalid-ack
TCP invalid ACK:
   This counter is incremented and the packet is dropped when appliance receives a TCP
packet with acknowledgement number greater than data sent by peer TCP endpoint.
```

```
Recommendations:
None
```

increment.

Syslogs: None Name: tcp-fo-drop TCP replicated flow pak drop: This counter is incremented and the packet is dropped when appliance receives a TCP packet with control flag like SYN, FIN or RST on an established connection just after the appliance has taken over as active unit. Recommendations: None Syslogs: None _____ Name: tcp-discarded-ooo TCP ACK in 3 way handshake invalid: This counter is incremented and the packet is dropped when appliance receives a TCP ACK packet from client during three-way-handshake and the sequence number is not next expected sequence number. Recommendations: None Syslogs: None _____ Name: tcp-buffer-full TCP Out-of-Order packet buffer full: This counter is incremented and the packet is dropped when appliance receives an out-of-order TCP packet on a connection and there is no buffer space to store this packet. Typically TCP packets are put into order on connections that are inspected by the appliance or when packets are sent to SSM for inspection. There is a default queue size and when packets in excess of this default queue size are received they will be dropped. Recommendations: On ASA platforms the queue size could be increased using queue-limit configuration under tcp-map. Syslogs: None _____ Name: tcp-global-buffer-full TCP global Out-of-Order packet buffer full: This counter is incremented and the packet is dropped when the security appliance receives an out-of-order TCP packet on a connection and there are no more global buffers available. Typically TCP packets are put into order on connections that are inspected by

the security appliance or when packets are sent to the SSM for inspection. When the global

Out-of-Order buffer queue is full, the packet will be dropped and this counter will

```
This is a temporary condition when all global buffers are used. If this counter is
constantly incrementing, then please check your network for large amounts of Out-of-Order
traffic, which could be caused by traffic of the same flow taking different routes through
the network.
Syslogs:
   None
  _____
Name: tcp-buffer-timeout
TCP Out-of-Order packet buffer timeout:
   This counter is incremented and the packet is dropped when a queued out of order TCP
packet has been held in the buffer for too long. Typically, TCP packets are put into order on
connections that are inspected by the security appliance or when packets are sent to the SSM
for inspection. When the next expected TCP packet does not arrive within a certain period,
the queued out of order packet is dropped.
Recommendations:
   The next expected TCP packet may not arrive due to congestion in the network which is
normal in a busy network. The TCP retransmission mechanism in the end host will retransmit
the packet and the session will continue.
```

Syslogs: None

Name: tcp-rst-syn-in-win

TCP RST/SYN in window:

This counter is incremented and the packet is dropped when appliance receives a TCP SYN or TCP RST packet on an established connection with sequence number within window but not next expected sequence number.

Recommendations: None

Syslogs: None

Name: tcp-acked TCP DUP and has been ACKed:

This counter is incremented and the packet is dropped when appliance receives a retransmitted data packet and the data has been acknowledged by the peer TCP endpoint.

Recommendations: None

Syslogs: None

Name: tcp-dup-in-queue TCP dup of packet in Out-of-Order queue:

Recommendations:

This counter is incremented and the packet is dropped when appliance receives a retransmitted data packet that is already in our out of order packet queue. Recommendations: None Syslogs: None _____ Name: tcp-paws-fail TCP packet failed PAWS test: This counter is incremented and the packet is dropped when TCP packet with timestamp header option fails the PAWS (Protect Against Wrapped Sequences) test. Recommendations: To allow such connections to proceed, use tcp-options configuration under tcp-map to clear timestamp option. Syslogs: None _____ Name: tcp-conn-limit TCP connection limit reached: This reason is given for dropping a TCP packet during TCP connection establishment phase when the connection limit has been exceeded. The connection limit is configured via the 'set connection conn-max' action command. Recommendation: If this is incrementing rapidly, check the syslogs to determine which host's connection limit is reached. The connection limit may need to be increased if the traffic is normal, or the host may be under attack. Syslogs: 201011 _____ Name: conn-limit Connection limit reached: This reason is given for dropping a packet when the connection limit or host connection limit has been exceeded. If this is a TCP packet which is dropped during TCP connection establishment phase due to connection limit, the drop reason 'TCP connection limit reached' is also reported. Recommendation: If this is incrementing rapidly, check the syslogs to determine which host's connection limit is reached. The connection limit may need to be increased if the traffic is normal, or the host may be under attack. Syslogs: 201011 _____ Name: tcp_xmit_partial

```
TCP retransmission partial:
   This counter is incremented and the packet is dropped when check-retranmission feature
is enabled and a partial TCP retransmission was received.
Recommendations:
   None
Syslogs:
   None
_____
Name: sctp-no-association
SCTP no association:
   This counter is incremented and the packet is dropped when no matching association exist
for this packet.
Recommendations:
   None
Syslogs:
   None
_____
Name: sctp-pkt-too-small
SCTP packet size less than minimum length of 16:
   This counter is incremented and the packet is dropped when SCTP packet size is less then
the combined size of common header and chunk header.
Recommendations:
   None
Syslogs:
   None
_____
Name: sctp-pkt-partial_chunk
SCTP packet has partial chunk:
   This counter is incremented and the packet is dropped when SCTP packet contains a
partial chunk.
Recommendations:
   None
Syslogs:
   None
  _____
Name: sctp-chunk-too-small
SCTP chunk length value is smaller then chunk header size:
   This counter is incremented and the packet is dropped when the SCTP chunk length value
is less then the size of chunk header.
Recommendations:
```

None

Syslogs: None _____ Name: sctp-chunk-init-too-small SCTP chunk length value is smaller then the INIT chunk size: This counter is incremented and the packet is dropped when the SCTP chunk length value is less then the size of INIT chunk. Recommendations: None Syslogs: None _____ Name: sctp-chunk-init-param-too-small SCTP INIT chunk parameter length value is smaller then the parameter header size: This counter is incremented and the packet is dropped when the SCTP parameter length value is less then the size of parameter header. Recommendations: None Syslogs: None _____ Name: sctp-chunk-init-new-addr SCTP restart INIT chunk contains new address: This counter is incremented and the packet is dropped when SCTP restart INIT chunk contains new address. Recommendations: None Syslogs: None _____ Name: sctp-chunk-initack-too-small SCTP chunk length value is smaller then the INIT ACK chunk size: This counter is incremented and the packet is dropped when the SCTP chunk length value is less then the size of INIT ACK chunk. Recommendations: None Syslogs: None _____ Name: sctp-chunk-init-in-shutdown

SCTP INIT is seen in shutdown state:

```
This counter is incremented and the packet is dropped when SCTP INIT chunk is received
in SHUTDOWN state.
Recommendations:
   None
Syslogs:
   None
 _____
Name: sctp-chunk-initack-no-matching-init
SCTP INITACK chunk has no matching INIT:
   This counter is incremented and the packet is dropped when SCTP INIT ACK chunk is
received with no matching INIT.
Recommendations:
   None
Syslogs:
   None
  _____
Name: sctp-chunk-init-0-tag
SCTP INIT contains 0 value initiate tag:
   This counter is incremented and the packet is dropped when SCTP INIT chunk contains 0
value initiate tag.
Recommendations:
   None
Syslogs:
   None
_____
Name: sctp-chunk-initack-0-tag
SCTP INIT ACK contains 0 value initiate tag:
   This counter is incremented and the packet is dropped when SCTP INIT ACK chunk contains
0 value initiate tag.
Recommendations:
   None
Syslogs:
   None
_____
Name: sctp-chunk-init-rwnd-too-small
SCTP INIT receive-window value is too small:
   This counter is incremented and the packet is dropped when SCTP INIT chunk
receive-window value is too small (less than 1500).
Recommendations:
   None
```

```
Syslogs:
```

None

```
_____
Name: sctp-chunk-initack-rwnd-too-small
SCTP INIT ACK receive-window value is too small:
   This counter is incremented and the packet is dropped when SCTP INIT ACK chunk
receive-window value is too small (less than 1500).
Recommendations:
   None
Syslogs:
   None
  _____
Name: sctp-chunk-init-0-stream-cnt
SCTP INIT contains 0 value inbound/outbound stream count:
   This counter is incremented and the packet is dropped when SCTP INIT chunk contains 0
value inbound/outbound stream count.
Recommendations:
   None
Syslogs:
   None
              _____
Name: sctp-chunk-init-ack-0-stream-cnt
SCTP INIT ACK contains 0 value inbound/outbound stream count:
   This counter is incremented and the packet is dropped when SCTP INIT ACK chunk contains
0 value inbound/outbound stream count.
Recommendations:
   None
Syslogs:
   None
_____
Name: sctp-chunk-init-inv-param-len
SCTP INIT ACK contains invalid parameter length value:
   This counter is incremented and the packet is dropped when SCTP INIT ACK chunk contains
invalid parameter length value.
Recommendations:
   None
Syslogs:
   None
  _____
Name: sctp-chunk-init-inv-ipv4-param-len
SCTP INIT contains invalid ipv4 parameter length value:
```

This counter is incremented and the packet is dropped when SCTP INIT chunk contains invalid ipv4 parameter length value. Recommendations: None Syslogs: None _____ Name: sctp-chunk-init-ack-inv-ipv4-param-len SCTP INIT ACK contains invalid ipv4 parameter length value: This counter is incremented and the packet is dropped when SCTP INIT ACK chunk contains invalid ipv4 parameter length value. Recommendations: None Syslogs: None _____ Name: sctp-chunk-init-inv-ipv6-param-len SCTP INIT contains invalid ipv6 parameter length value: This counter is incremented and the packet is dropped when SCTP INIT chunk contains invalid ipv6 parameter length value. Recommendations: None Syslogs: None _____ Name: sctp-chunk-init-ack-inv-ipv6-param-len SCTP INIT ACK contains invalid ipv6 parameter length value: This counter is incremented and the packet is dropped when SCTP INIT ACK chunk contains invalid ipv6 parameter length value. Recommendations: None Syslogs: None _____ Name: sctp-chunk-cookie-echo-no-assoc SCTP COOKIE ECHO is received with no association: This counter is incremented and the packet is dropped when SCTP COOKIE ECHO chunk is received without an association. Recommendations: None

```
Syslogs:
```

None

```
_____
Name: sctp-chunk-cookie-ack-no-assoc
SCTP COOKIE ACK is received with no association:
   This counter is incremented and the packet is dropped when SCTP COOKIE ACK chunk is
received without an association.
Recommendations:
   None
Syslogs:
   None
  _____
Name: sctp-chunk-cookie-echo-cookie-len
SCTP COOKIE ECHO contains cookie with different length:
   This counter is incremented and the packet is dropped when SCTP COOKIE ECHO chunk
contains an echoed cookie with a different length.
Recommendations:
   None
Syslogs:
   None
           _____
Name: sctp-chunk-cookie-echo-in-close
SCTP COOKIE ECHO is received in CLOSED state:
   This counter is incremented and the packet is dropped when SCTP COOKIE ECHO chunk is
received in association CLOSED state.
Recommendations:
   None
Syslogs:
   None
_____
Name: sctp-chunk-cookie-echo-in-shut
SCTP COOKIE ECHO is received during shutdown:
   This counter is incremented and the packet is dropped when SCTP COOKIE ECHO chunk is
received during association shutdown.
Recommendations:
   None
Syslogs:
   None
 _____
Name: sctp-chunk-cookie-ack-in-invalid-state
SCTP COOKIE ACK is not received in COOKIE ECHOED state:
```

```
This counter is incremented and the packet is dropped when SCTP COOKIE ACK chunk is not
received in COOKIE ECHOED state.
Recommendations:
   None
Syslogs:
   None
 _____
Name: sctp-chunk-shutdown-too-small
SCTP SHUTDOWN length is too small:
   This counter is incremented and the packet is dropped when SCTP SHUTDOWN chunk length is
too small.
Recommendations:
   None
Syslogs:
   None
  _____
Name: sctp-chunk-shutdown-in-invalid-state
SCTP SHUTDOWN is not received in valid state:
   This counter is incremented and the packet is dropped when SCTP SHUTDOWN chunk is not
received in valid state.
Recommendations:
   None
Syslogs:
   None
_____
Name: sctp-chunk-shutdown-ack-in-invalid-state
SCTP SHUTDOWN ACK is not received in valid state:
   This counter is incremented and the packet is dropped when SCTP SHUTDOWN ACK chunk is
not received in valid state.
Recommendations:
   None
Syslogs:
   None
_____
Name: sctp-chunk-shutdown-complete-in-invalid-state
SCTP SHUTDOWN COMPLETE is not received in valid state:
   This counter is incremented and the packet is dropped when SCTP SHUTDOWN COMPLETE chunk
is not received in valid state.
Recommendations:
   None
```

Syslogs:

None

```
_____
Name: sctp-chunk-sack-in-invalid-state
SCTP SACK is not received in valid state:
   This counter is incremented and the packet is dropped when SCTP SACK chunk is not
received in valid state.
Recommendations:
  None
Syslogs:
   None
 _____
Name: sctp-chunk-sack-too-small
SCTP SACK length is too small:
   This counter is incremented and the packet is dropped when SCTP SACK chunk length is
too small.
Recommendations:
   None
Syslogs:
   None
           _____
Name: sctp-chunk-fwd-tsn-in-invalid-state
SCTP FWD TSN is not received in valid state:
   This counter is incremented and the packet is dropped when SCTP FORWARD CUMULATIVE TSN
chunk is not received in valid state.
Recommendations:
  None
Syslogs:
   None
_____
Name: sctp-chunk-fwd-tsn-too-small
SCTP FWD TSN length is too small:
   This counter is incremented and the packet is dropped when SCTP FORWARD CUMULATIVE TSN
chunk length is too small.
Recommendations:
  None
Syslogs:
   None
 _____
Name: sctp-chunk-fwd-tsn-gap-out-of-range
SCTP FWD TSN gap is out of range:
```

This counter is incremented and the packet is dropped when SCTP FORWARD CUMULATIVE TSN gap is out of range (100). Recommendations: None Syslogs: None _____ Name: sctp-chunk-init-restart-bad-ip SCTP INIT (restart) contains IP address not in previous INIT: This counter is incremented and the packet is dropped when SCTP INIT (restart) chunk contains IP address that is not in previous INIT. Recommendations: None Syslogs: None _____ Name: sctp-chunk-init-asconf-auth-inconsistent SCTP INIT contains contains ASCONF support without AUTH support: This counter is incremented and the packet is dropped when SCTP INIT chunk contains contains ASCONF support without AUTH support. Recommendations: None Syslogs: None _____ Name: sctp-chunk-init-redundancy-auth-inconsistent SCTP INIT contains contains REDUNDANCY support without AUTH support: This counter is incremented and the packet is dropped when SCTP INIT chunk contains REDUNDANCY support without AUTH support. Recommendations: None Syslogs: None _____ Name: sctp-chunk-invalid-bundle SCTP chunk bundle included INIT, INIT_ACK, or SHUTDOWN_COMPLETE: This counter is incremented and the packet is dropped when SCTP chunk bundle included INIT, INIT_ACK, or SHUTDOWN_COMPLETE. Recommendations: None

Syslogs:

None

```
_____
Name: sctp-invalid-bundle
SCTP packet bundle has control chunks after data chunks:
   This counter is incremented and the packet is dropped when SCTP packet has control
chunks present after data chunks and is dropped.
Recommendations:
   None
Syslogs:
   None
  _____
Name: sctp-chunk-unrec-param
SCTP chunk contains unrecognizable parameter:
   This counter is incremented and the packet is dropped when SCTP chunk contains
unrecognizable parameter.
Recommendations:
   None
Syslogs:
   None
Name: sctp-chunk-param-supaddrlen-inv
SCTP chunk parameter SUPPORTED ADDRESS contains invalid length:n
                                                        This counter is
incremented and the packet is dropped when SCTP INIT/INIT ACK chunk parameter SUPPORTED
ADDRESS contains invalid length (< 4).
Recommendations:
   None
Syslogs:
   None
_____
Name: sctp-pkt-auth-chunk-extra
SCTP packets contains more than one AUTH chunk:
   This counter is incremented and the packet is dropped when SCTP packet contains more
than one AUTH chunk.
Recommendations:
   None
Syslogs:
   None
  _____
Name: sctp-pkt-auth-chunk-no-data
SCTP packets contains only AUTH chunks:
```

This counter is incremented and the packet is dropped when SCTP packet contains only AUTH chunks. Recommendations: None Syslogs: None _____ Name: sctp-initack-chunk-inv-state Received SCTP INIT ACK chunk in non-COOKIE-WAIT state: This counter is incremented and the packet is dropped when SCTP packet containing INIT ACK chunk is received in non-cookie-wait state. Recommendations: None Syslogs: None _____ Name: sctp-chunk-zero-ver-tag Received SCTP non-INIT/ABORT chunk with zero verification tag: This counter is incremented and the packet is dropped when packet containing INIT/ABORT chunk has zero verification tag. Recommendations: None Syslogs: None _____ Name: sctp-chunk-inva-ver-tag Received SCTP chunk with invalid verification tag: This counter is incremented and the packet is dropped when packet contains verification tag that does not match association tag. Recommendations: None Syslogs: None _____ Name: sctp-abort-chunk-unexpected Received SCTP ABORT chunk unexpectedly: This counter is incremented and the packet is dropped when SCTP chunk is received unexpectedly. Recommendations: None

```
Syslogs:
```

None

```
_____
Name: sctp-shutack-chunk-unexpected
Received SCTP SHUTDOWN ACK chunk unexpectedly:
   This counter is incremented and the packet is dropped when SHUTDOWN ACK is received
unexpectedly.
Recommendations:
   None
Syslogs:
   None
 _____
Name: sctp-shutcomplete-chunk-unexpected
Received SCTP SHUTDOWN COMPLETE chunk unexpectedly:
   This counter is incremented and the packet is dropped when SHUTDOWN COMPLETE is
received unexpectedly.
Recommendations:
   None
Syslogs:
   None
     _____
Name: sctp-chunk-unexpected
Received SCTP chunk unexpectedly:
   This counter is incremented and the packet is dropped when chunk is received
unexpectedly.
Recommendations:
  None
Syslogs:
   None
_____
Name: sctp-data-chunk-in-invalid-state
SCTP DATA chunk in invalid state:
   This counter is incremented and the packet is dropped when SCTP DATA chunk is received
in invalid state.
Recommendations:
  None
Syslogs:
   None
  _____
Name: sctp-chunk-descriptor-unavailable
SCTP DATA chunk descriptor unavailable:
```

```
This counter is incremented and the packet is dropped when SCTP chunk descriptor is
unavailable.
Recommendations:
   None
Syslogs:
   None
 _____
Name: sctp-dgram-header-unavailable
SCTP Datagram header unavailable:
   This counter is incremented and the packet is dropped when SCTP datagram header is
unavailable.
Recommendations:
   None
Syslogs:
   None
  _____
Name: sctp-stream-id-invalid
SCTP DATA chunk contains invalid stream id:
   This counter is incremented and the packet is dropped when SCTP DATA chunk contains
invalid stream id.
Recommendations:
   None
Syslogs:
   None
_____
Name: sctp-data-chunk-len-invalid
SCTP DATA chunk length is invalid:
   This counter is incremented and the chunk is dropped when SCTP DATA chunk has invalid
chunk length.
Recommendations:
   None
Syslogs:
   None
_____
Name: sctp-data-chunk-len-too-small
SCTP DATA chunk length is too small:
   This counter is incremented and the packet is dropped when SCTP DATA chunk length is too
small.
Recommendations:
   None
```

```
Syslogs:
```

None _____ Name: sctp-data-chunk-len-exceeds-rwnd SCTP DATA chunk length greater than receive window: This counter is incremented and the packet is dropped when SCTP DATA chunk length is greater than receive window. Recommendations: None Syslogs: None _____ Name: sctp-duplicate-data-stream Received duplicate SCTP DATA stream: This counter is incremented and the packet is dropped when a duplicate SCTP DATA stream is received. Recommendations: None Syslogs: None _____ Name: sctp queue-limit SCTP Out-of-order queue full: This counter is incremented and the packet is dropped when the SCTP out of order packet queue exceeds the default limit 20. Recommendations: None Syslogs: None _____ Name: sctp-reorder-queue-timeout SCTP Reorder queue timeout: This counter is incremented and the data chunk is dropped when an out of order SCTP data chunk has been held in the buffer for 30 seconds. Recommendations: None Syslogs: None _____ Name: sctp-drop-fixme SCTP drop fixme:

This counter is incremented when the security appliance recieves a SCTP packet with a fixme drop reason Recommendation: None. Syslog: None. _____ Name: sctp-reorder-queue-limit SCTP Reorder queue limit exceeded: This counter is incremented and the chunk is dropped when number of out of order chunks exceeds the limit(50/stream) for the stream. Recommendations: None Syslogs: None _____ Name: sctp-reassembly-queue-timeout SCTP Reassembly queue timeout: This counter is incremented and the fragmented chunks are deleted from the reassembly queue when those fragmented chunks has been held in the reassembly queue for 30 seconds. Recommendations: None Syslogs: None _____ Name: sctp-reassembly-queue-limit SCTP Reassembly queue limit exceeded: This counter is incremented and the fragmented chunks are deleted from the reassembly queue after the number of fragments in reassembly queue reaches its maximum(6). Recommendations: None Syslogs: None _____ Name: sctp-reassembly-buffer-size-limit SCTP Reassembly Datagram queue bytesize limit exceeded: This counter is incremented and the reassembly datagram is deleted from the stream reassembly queue(all fragments) after the total bytesize of chunks in the dgram reassembly queue reaches its maximum(8192bytes). Recommendations: None

Syslogs: None _____ Name: sctp-reorder-stream-limit SCTP Number of streams in reorder exceeded limit: This counter is incremented and the chunk is dropped when first out of order chunk is received after the number of Streams in Reorder reaches its maximum(64*number of cpu cores). Recommendations: None Syslogs: None _____ Name: sctp-reassembly-system-limit SCTP Reassembly Datagram queue limit exceeded: This counter is incremented and the reassembly datagram will not be created for the new incoming fragments after the number of datagrams in reassembly queues in ASA reaches its maximum(125/core) We do repacking if the fragment is bundled else we drop the whole packet. Recommendations: None Syslogs: None _____ Name: sctp-invalid-fragments SCTP invalid fragments received: This counter is incremented and all fragments in reassembly queue will be deleted including the fragment which is not yet been queued. Recommendations: None Syslogs: None _____ Name: sctp-chunk-shutdown-no-assoc SCTP SHUTDOWN is received with no association: This counter is incremented and the packet is dropped when SCTP SHUTDOWN chunk is received without an association. Recommendations: None Syslogs: None _____ Name: sctp-chunk-shutdown-ack-no-assoc

```
사용 지침
```

```
SCTP SHUTDOWN ACK is received with no association:
   This counter is incremented and the packet is dropped when SCTP SHUTDOWN ACK chunk is
received without an association.
Recommendations:
   None
Syslogs:
   None
_____
Name: sctp-chunk-shutdown-comp-no-assoc
SCTP SHUTDOWN COMPLETE is received with no association:
   This counter is incremented and the packet is dropped when SCTP SHUTDOWN COMPLETE chunk
is received without an association.
Recommendations:
   None
Syslogs:
   None
_____
Name: sctp-chunk-sack-no-assoc
SCTP SACK is received with no association:
   This counter is incremented and the packet is dropped when SCTP SACK chunk is received
without an association.
Recommendations:
   None
Syslogs:
   None
_____
Name: sctp-chunk-heartbeat-no-assoc
SCTP HEARTBEAT is received with no association:
   This counter is incremented and the packet is dropped when SCTP HEARTBEAT chunk is
received without an association.
Recommendations:
   None
Syslogs:
   None
  _____
Name: sctp-chunk-heartbeat-ack-no-assoc
SCTP HEARTBEAT ACK is received with no association:
   This counter is incremented and the packet is dropped when SCTP HEARTBEAT ACK chunk is
received without an association.
Recommendations:
   None
```

```
Syslogs:
   None
Name: tcpnorm-rexmit-bad
TCP bad retransmission:
   This counter is incremented and the packet is dropped when check-retranmission feature
is enabled and a TCP retranmission with different data from the original packet was
received.
Recommendations:
   None
Syslogs:
   None
_____
Name: tcpnorm-win-variation
TCP unexpected window size variation:
   This counter is incremented and the packet is dropped when window size advertized by
TCP endpoint is drastically changed without accepting that much data.
Recommendations:
   In order to allow such packet, use the window-variation configuration under tcp-map.
Syslogs:
   None
                        _____
Name: tcp-bad-option-length
TCP option length invalid:
   This counter is incremented and the packet is dropped when the
                                                                 appliance receives a
TCP packet with TCP option length 0, which is invalid
                                                   for non-NOP option.
Recommendation:
   None.
Syslogs:
   None
   _____
Name: rate-exceeded
OoS rate exceeded:
   This counter is incremented when rate-limiting (policing) is configured on an
egress/ingress interface and the egress/ingress traffic rate exceeds the burst rate
configured. The counter is incremented for each packet dropped.
Recommendation:
   Investigate and determine why the rate of traffic leaving/entering the interface is
higher than the configured rate. This may be normal, or could be an indication of virus or
attempted attack.
Syslogs:
   None.
```

_____ Name: queue-removed Rate-limiter queued packet dropped: When QoS config is changed or removed, the existing packets in the output queues awaiting transmission are dropped and this counter is incremented. Recommendation: Under normal conditions, this may be seen when the QoS configuration has been changed by the user. If this occurs when no changes to QoS config were performed, please contact Cisco Technical Assistance Center (TAC). Syslogs: None. Name: bad-crypto Bad crypto return in packet: This counter will increment when the appliance attempts to perform a crypto operation on a packet and the crypto operation fails. This is not a normal condition and could indicate possible software or hardware problems with the appliance Recommendation: If you are receiving many bad crypto indications your appliance may need servicing. You should enable syslog 402123 to determine whether the crypto errors are hardware or software errors. You can also check the error counter in the global IPSec statistics with the 'show ipsec stats' CLI command. If the IPSec SA which is triggering these errors is known, the SA statistics from the 'show ipsec sa detail' command will also be useful in diagnosing the problem. Syslogs: 402123 _____ Name: ssl-first-record-invalid SSL first record invalid: The minimal length of SSL first handshake record should be 11 bytes. If the first record is less than 11 bytes, the packet will be dropped. Recommendation: This counter is incremented for invalid SSL record type that has first SSL record less than 11 bytes. This invalid type received from the remote peer is treated as a fatal error and the SSL packets that encounter this error must be dropped. Syslogs: None _____ Name: ssl-record-length-invalid SSL record length invalid: The minimal length of SSL handshake record should be 4 bytes. If the handshake record is less than 4 bytes, the packet will be dropped. Recommendation: This counter is incremented for invalid SSL record type that has SSL record less than 4 bytes. This invalid type received from the remote peer is treated as a fatal error and the SSL packets that encounter this error must be dropped. Syslogs:

None

_____ Name: ssl-alert-length-invalid SSL alert length invalid: The minimal length of SSL handshake alert should be 2 bytes. If the handshake record is less than 2 bytes, the packet will be dropped. Recommendation: This counter is incremented for invalid SSL record type that has SSL alert less than 2 bytes. This invalid type received from the remote peer is treated as a fatal error and the SSL packets that encounter this error must be dropped. Syslogs: None _____ Name: ctm-error CTM returned error: This counter will increment when the appliance attempts to perform a crypto operation on a packet and the crypto operation fails. This is not a normal condition and could indicate possible software or hardware problems with the appliance. Recommendation: If you are receiving many bad crypto indications your appliance may need servicing. You should enable syslog 402123 to determine whether the crypto errors are hardware or software errors. You can also check the error counter in the global IPSec statistics with the 'show ipsec stats' CLI command. If the IPSec SA which is triggering these errors is known, the SA statistics from the 'show ipsec sa detail' command will also be useful in diagnosing the problem. Syslogs: 402123 _____ Name: send-ctm-error Send to CTM returned error: This counter is obsolete in the appliance and should never increment. Recommendation: None Syslogs: None _____ Name: security-failed Early security checks failed: This counter is incremented and packet is dropped when the security appliance : - receives an IPv4 multicast packet when the packets multicast MAC address doesn't match the packets multicast destination IP address - receives an IPv6 or IPv4 teardrop fragment containing either small offset or fragment overlapping - receives an IPv4 packet that matches an IP audit (IPS) signature

Recommendation:

Contact the remote peer administrator or escalate this issue according to your security policy For detailed description and syslogs for IP audit attack checks please refer the ip audit signature section of command reference guide Syslogs: 106020 400xx in case of ip audit checks _____ Name: policy-params-failed Unable to create policy params: This counter is incremented and every packet is dropped when data-plane does not have a valid policy installed in the security context Recommendation: If this is incrementing check the data plane logs to see why there was a policy install failure. Syslogs: None _____ Name: sp-security-failed Slowpath security checks failed: This counter is incremented and packet is dropped when the security appliance is: 1) In routed mode receives a through-the-box: - L2 broadcast packet - IPv4 packet with destination IP address equal to 0.0.0.0 - IPv4 packet with source IP address equal to 0.0.0.0 2) In routed or transparent mode and receives a through-the-box IPv4 packet with: - first octet of the source IP address equal to zero - source IP address equal to the loopback IP address - network part of source IP address equal to all 0's - network part of the source IP address equal to all 1's - source IP address host part equal to all 0's or all 1's - Destination IP address host part equal to all 0's 3) In routed or transparent mode and receives an IPv4 or IPv6 packet with same source and destination IP addresses Recommendation: 1 and 2) Determine if an external user is trying to compromise the protected network. Check for misconfigured clients. 3) If this message counter is incrementing rapidly, an attack may be in progress. Use the packet capture feature to capture type asp packets, and check the source MAC address in the packet to see where they are coming from. Syslogs: 1 and 2) 106016

3) 106017

Name: invalid-ip-option

IP option drop:

This counter is incremented when any unicast packet with ip options or a multicast packet with ip-options that have not been configured to be accepted, is received by the security appliance. The packet is dropped. Recommendation: Investigate why a packet with ip options is being sent by the sender. Syslogs: None. _____ Name: lu-invalid-pkt Invalid LU packet: Standby unit received a corrupted Logical Update packet. Recommendation: The packet corruption could be caused by a bad cable, interface card, line noise, or software defect. If the interface appears to be functioning properly, then report the problem to Cisco TAC. Syslogs: None _____ Name: fo-standby Dropped by standby unit: If a through-the-box packet arrives at an appliance or context in a Standby state and a flow is created, the packet is dropped and the flow removed. This counter will increment each time a packet is dropped in this manner. Recommendation: This counter should never be incrementing on the Active appliance or context. However, it is normal to see it increment on the Standby appliance or context. Syslogs: 302014, 302016, 302018 _____ Name: dst-12_lookup-fail Dst MAC L2 Lookup Failed: This counter will increment when the appliance is configured for Layer 2 switching and the appliance does a Layer 2 destination MAC address lookup which fails. Upon the lookup failure, the appliance will begin the destination MAC discovery process and attempt to find the location of the host via ARP and/or ICMP messages. Recommendation: This is a normal condition when the appliance is configured for Layer 2 switching. You can also execute (show mac-address-table) to list the L2 MAC address locations currently discovered by the appliance. Syslogs: None _____ Name: bvi-missing-nameif

Bridge interface missing nameif:

This counter will be incremented when the ingress interface belongs to a bridge-group and leaving via an interface which belongs to a different bridge-group or a L3 interface without nameif configured on the ingress BVI interface. Recommendation: For traffic to leave the BVI interface, nameif has to be configured on the ingress BVI interface. Syslogs: None _____ Name: bvi-unsupported-packet Unsupported packet on Bridge interface: This counter will be incremented when the unsupported packets are punted on BVI interface. Recommendation: Analyze the packets to determine source of unsuported packets that are tried to punt on BVI interface. Syslogs: None _____ Name: 12_same-lan-port L2 Src/Dst same LAN port: This counter will increment when the appliance/context is configured for transparent mode and the appliance determines that the destination interface's L2 MAC address is the same as its ingress interface. Recommendation: This is a normal condition when the appliance/context is configured for transparent mode. Since the appliance interface is operating in promiscuous mode, the appliance/context receives all packets on the local LAN segment. Syslogs: None _____ Name: flow-expired Expired flow: This counter is incremented when the security appliance tries to inject a new or cached packet belonging to a flow that has already expired. It is also incremented when the appliance attempts to send an rst on a tcp flow that has already expired or when a packet returns from IDS blade but the flow had already expired. The packet is dropped Recommendation: If valid applications are getting pre-empted, investigate if a longer timeout is needed.

Syslogs: None.

Name: inspect-icmp-out-of-app-id

사용 지침

ICMP Inspect out of App ID: This counter will increment when the ICMP inspection engine fails to allocate an 'App ID' data structure. The structure is used to store the sequence number of the ICMP packet. Recommendation: Check the system memory usage. This event normally happens when the system runs short of memory. Syslogs: None. _____ Name: inspect-icmp-bad-code ICMP Inspect bad icmp code: This counter will increment when the ICMP code in the ICMP echo request or reply message is non-zero. Recommendation: No action required if it is an intermittent event. If the cause is an attack, you can deny the host using the ACLs. Syslogs: 313009. _____ Name: inspect-icmp-seq-num-not-matched ICMP Inspect seq num not matched: This counter will increment when the sequence number in the ICMP echo reply message does not match any ICMP echo message that passed across the appliance earlier on the same connection. Recommendation: No action required if it is an intermittent event. If the cause is an attack, you can deny the host using the ACLs. Syslogs: 313004 Name: inspect-icmp-error-no-existing-conn ICMP Error Inspect no existing conn: This counter will increment when the appliance is not able to find any established connection related to the frame embedded in the ICMP error message. Recommendation: No action required if it is an intermittent event. If the cause is an attack, you can deny the host using the ACLs. Syslogs: 313005 _____ Name: inspect-icmp-error-different-embedded-conn ICMP Error Inspect different embedded conn:

사용 지침

This counter will increment when the frame embedded in the ICMP error message does not match the established connection that has been identified when the ICMP connection is created. Recommendation: No action required if it is an intermittent event. If the cause is an attack, you can deny the host using the ACLs. Syslogs: 313005 _____ Name: inspect-icmp-invalid-pak ICMP Inspect invalid packet: This counter will increment when the appliance detects an invalid ICMPv4 or ICMPv6 packet. Examples: Incomplete ICMP header; malformed ICMP Next Header; invalid hop-limit for ICMPv6 NS (neighbor solicitation); etc. Recommendation: No action required if it is an intermittent event. If the cause is an attack, you can deny the host using the ACLs. Syslogs: None. _____ Name: inspect-icmpv6-error-invalid-pak ICMPv6 Error Inspect invalid packet: This counter will increment when the appliance detects an invalid frame embedded in the ICMPv6 packet. This check is the same as that on IPv6 packets. Examples: Incomplete IPv6 header; malformed IPv6 Next Header; etc. Recommendation: No action required. Syslogs: None. Name: inspect-icmpv6-error-no-existing-conn ICMPv6 Error Inspect no existing conn: This counter will increment when the appliance is not able to find any established connection related to the frame embedded in the ICMPv6 error message. Recommendation: No action required if it is an intermittent event. If the cause is an attack, you can deny the host using the ACLs. Syslogs: 313005 _____ Name: inspect-icmp-error-nat64-error ICMP NAT64 Error Inspect XLATE Error:

This counter will increment when the appliance is unable to translate ICMP error messages between IPv6 and IPv4. Recommendation: No action required if it is an intermittent event. If the cause is an attack, you can deny the host using the ACLs. Syslogs: 313005 _____ Name: inspect-icmp-nat64-frag ICMP NAT64 Inspect Fragmentation Error: This counter will increment when the appliance is unable to translate ICMP messages between IPv6 and IPv4 due to fragmentation. Per RFC-6145, ICMP packet fragments will not be translated. Recommendation: No action required. Syslogs: 313005 _____ Name: inspect-stun-out-of-trans-id STUN Inspect out of Trans ID: This counter will increment when the STUN inspection engine fails to allocate an 'Trans ID' data structure. The structure is used to store the transaction id of the STUN packet. Recommendation: Check the system memory usage. This event normally happens when the system runs short of memory. Syslogs: None. _____ Name: inspect-stun-out-of-memory STUN Inspect out of Memory: This counter will increment when the STUN inspection engine fails to allocate memory. Recommendation: Check the system memory usage. This event normally happens when the system runs short of memory. Syslogs: None. Name: inspect-stun-trans-id-no-match STUN Inspect trans id not matched: This counter will increment when the transaction id in the STUN successful/error response message does not match any STUN request message that passed across the appliance earlier on the same connection.

```
Recommendation:
   No action required if it is an intermittent event. If the cause is an attack, you can
deny the host using the ACLs.
Syslogs:
   313004
  _____
Name: inspect-stun-invalid-pak
STUN Inspect invalid packet:
   This counter will increment when the appliance detects an invalid STUN packet.
Examples: Incomplete STUN header; malformed STUN Header; etc.
Recommendation:
   No action required if it is an intermittent event. If the cause is an attack, you can
deny the host using the ACLs.
Syslogs:
   None.
  _____
Name: inspect-stun-pinhole-fail
STUN Inspect failed to open pinhole:
   This counter will increment when the appliance fails to open a pinhole after a STUN
request and successful response message exchange.
Recommendation:
   Check the system memory usage. This event normally happens when the system runs short
of memory.
Syslog:
   None.
_____
Name: inspect-dns-invalid-pak
DNS Inspect invalid packet:
   This counter will increment when the appliance detects an invalid DNS packet. Examples:
A DNS packet with no DNS header; the number of DNS resource records not matching the counter
in the header; etc.
Recommendation:
   No action required.
Syslogs:
   None.
  _____
Name: inspect-dns-opt-format-error
DNS Inspect Multiple OPT Record:
   This counter will increment when multiple OPT records were found In a single DNS packet
Recommendation:
   No action required.
```

```
Syslogs:
```

None.

```
_____
Name: inspect-dns-invalid-domain-label
DNS Inspect invalid domain label:
   This counter will increment when the appliance detects an invalid DNS domain name or
label. DNS domain name and label is checked per RFC 1035.
Recommendation:
   No action required. If the domain name and label check is not desired, disable the
protocol-enforcement parameter in the DNS inspection policy-map (in supported releases).
Syslogs:
   None.
  _____
Name: inspect-dns-pak-too-long
DNS Inspect packet too long:
   This counter is incremented when the length of the DNS message exceeds the configured
maximum allowed value.
Recommendation:
   No action required. If DNS message length checking is not desired, enable DNS
inspection without the 'maximum-length' option, or disable the 'message-length maximum'
parameter in the DNS inspection policy-map (in supported releases).
Syslogs:
   410001
_____
Name: inspect-dns-out-of-app-id
DNS Inspect out of App ID:
   This counter will increment when the DNS inspection engine fails to allocate a data
structure to store the identification of the DNS message.
Recommendation:
   Check the system memory usage. This event normally happens when the system runs short
of memory.
Syslogs:
   None.
_____
Name: inspect-dns-id-not-matched
DNS Inspect ID not matched:
   This counter will increment when the identification of the DNS response message does
not match any DNS queries that passed across the appliance earlier on the same connection.
Recommendation:
   No action required if it is an intermittent event. If the cause is an attack, you can
deny the host using the ACLs.
Syslogs:
   None.
```

```
_____
Name: inspect-dns-umbrella-no-memory
DNS Inspect Umbrella memory allocation failure:
   This counter will increment when Umbrella was unable to allocate new memory The current
packet being processed was dropped.
Recommendation:
   Check system load. CHeck memory usage.
Syslogs:
   None.
_____
Name: inspect-dns-umbrella-flow-exp
Umbrella DNS packet delay. Flow expired:
   This counter will increment when a dns response from Umbrella was unable to find pairing
client flow to redirect the packet.Packet will be dropped
Recommendation:
   Check reachabiliy to Umbrella resolvers or network delays.
Syslogs:
   None.
  _____
Name: inspect-dns-umbrella-appid-fail
Umbrella DNS Transaction Id entry creation or lookup fail:
   Non Matching Response to Request transaction id. app-id table was not updated.
Recommendation:
   Check dns flows, system load, memory usage.
Syslogs:
   None.
_____
Name: dns-guard-out-of-app-id
DNS Guard out of App ID:
   This counter will increment when the DNS Guard function fails to allocate a data
structure to store the identification of the DNS message.
Recommendation:
   Check the system memory usage. This event normally happens when the system runs short
of memory.
Syslogs:
   None.
     _____
                         Name: dns-guard-id-not-matched
DNS Guard ID not matched:
   This counter will increment when the identification of the DNS response message does not
```

match any DNS queries that passed across the appliance earlier on the same connection. This counter will increment by the DNS Guard function.

Recommendation: No action required if it is an intermittent event. If the cause is an attack, you can deny the host using the ACLs. Syslogs: None. _____ Name: inspect-rtp-invalid-length Invalid RTP Packet length: This counter will increment when the UDP packet length is less than the size of the RTP header. Recommendation: No action required. A capture can be used to figure out which RTP source is sending the incorrect packets and you can deny the host using the ACLs. Svslogs: None. _____ Name: inspect-rtp-invalid-version Invalid RTP Version field: This counter will increment when the RTP version field contains a version other than 2. Recommendation: The RTP source in your network does not seem to be sending RTP packets conformant with the RFC 1889. The reason for this has to be identified and you can deny the host using ACLs if required. Syslogs: 431001. _____ Name: inspect-rtp-invalid-payload-type Invalid RTP Payload type field: This counter will increment when the RTP payload type field does not contain an audio payload type when the signalling channel negotiated an audio media type for this RTP secondary connection. The counter increments similarly for the video payload type. Recommendation: The RTP source in your network is using the audio RTP secondary connection to send video or vice versa. If you wish to prevent this you can deny the host using ACLs. Syslogs: 431001. _____ Name: inspect-rtp-ssrc-mismatch Invalid RTP Synchronization Source field: This counter will increment when the RTP SSRC field in the packet does not match the SSRC which the inspect has been seeing from this RTP source in all the RTP packets.

Recommendation:

사용 지침

This could be because the RTP source in your network is rebooting and hence changing the SSRC or it could be because of another host on your network trying to use the opened secondary RTP connections on the firewall to send RTP packets. This should be investigated further to confirm if there is a problem. Syslogs: 431001. _____ Name: inspect-rtp-sequence-num-outofrange RTP Sequence number out of range: This counter will increment when the RTP sequence number in the packet is not in the range expected by the inspect. Recommendation: No action is required because the inspect tries to recover and start tracking from a new sequence number after a lapse in the sequence numbers from the RTP source. Syslogs: 431001. _____ Name: inspect-rtp-max-outofseq-paks-probation RTP out of sequence packets in probation period: This counter will increment when the out of sequence packets when the RTP source is being validated exceeds 20. During the probation period, the inspect looks for 5 in-sequence packets to consider the source validated. Recommendation: Check the RTP source to see why the first few packets do not come in sequence and correct it. Syslogs: 431001. _____ Name: inspect-rtcp-invalid-length Invalid RTCP Packet length: This counter will increment when the UDP packet length is less than the size of the RTCP header. Recommendation: No action required. A capture can be used to figure out which RTP source is sending the incorrect packets and you can deny the host using the ACLs. Syslogs: None. _____ Name: inspect-rtcp-invalid-version Invalid RTCP Version field: This counter will increment when the RTCP version field contains a version other than 2. Recommendation:

The RTP source in your network does not seem to be sending RTCP packets conformant with the RFC 1889. The reason for this has to be identified and you can deny the host using ACLs if required. Syslogs: 431002. _____ Name: inspect-rtcp-invalid-payload-type Invalid RTCP Payload type field: This counter will increment when the RTCP payload type field does not contain the values 200 to 204. Recommendation: The RTP source should be validated to see why it is sending payload types outside of the range recommended by the RFC 1889. Syslogs: 431002. _____ Name: ips-request IPS Module requested drop: This counter is incremented and the packet is dropped as requested by IPS module when the packet matches a signature on the IPS engine. Recommendations: Check syslogs and alerts on IPS module. Syslogs: 420002 _____ _____ Name: cxsc-request CXSC Module requested drop: This counter is incremented and the packet is dropped as requested by CXSC module when the packet matches a signature on the CXSC engine. Recommendations: Check syslogs and alerts on CXSC module. Syslogs: 429002 _____ Name: cxsc-bad-tlv-received CXSC Module requested drop: This counter is incremented and the packet is dropped as requested by CXSC module when the packet has bad TLV's. Recommendations: Check syslogs and alerts on CXSC module. Syslogs: None

_____ Name: cxsc-malformed-packet CXSC Module requested drop: This counter is incremented and the packet is dropped as requested by CXSC module when the packet is malformed. Recommendations: Check syslogs and alerts on CXSC module. Syslogs: None _____ Name: cxsc-fail CXSC config removed for connection: This counter is incremented and the packet is dropped when CXSC configuration is not found for a particular connection. Recommendations: check if any configuration changes have been done for CXSC. Syslogs: None _____ Name: cxsc-fail-close CXSC card is down: This counter is incremented and the packet is dropped when CXSC card is down and fail-close option was used in CXSC action. Recommendations: Check and bring up the CXSC card. Syslogs: 429001 _____ Name: cxsc-ha-request CXSC HA replication drop: This counter is incremented when the security appliance receives a CXSC HA request packet, but could not process it and the packet is dropped. Recommendation: This could happen occasionally when CXSC does not have the latest ASA HA state, like right after ASA HA state change. If the counter is constantly increasing however, then it can be because CXSC and ASA are out of sync. If that happens, contact Cisco TAC for assistance. Syslogs: None. _____

Name: cxsc-invalid-encap

```
CXSC invalid header drop:
   This counter is incremented when the security appliance receives a CXSC packet with
invalid messsage header, and the packet is dropped.
Recommendation:
   This should not happen. Contact Cisco TAC for assistance.
Syslogs:
   None.
  _____
Name: cxsc-bad-handle-received
Received Bad flow handle in a packet from CXSC Module, thus dropping flow.
   This counter is incremented, flow and packet are dropped on ASA as the handle for CX
flow has changed in flow duration.
Recommendations:
   Check syslogs and alerts on CXSC module.
Syslogs:
   None
_____
Name: cxsc-rx-monitor-only
CXSC invalid monitor-only receive drop:
   This counter is incremented when the security appliance receives a CXSC packet when in
monitor-only mode, and the packet is dropped.
Recommendation:
   This should not happen. Contact Cisco TAC for assistance.
Syslogs:
   None.
_____
Name: sfr-request
SFR Module requested drop:
   This counter is incremented and the packet is dropped as requested by SFR module when
the packet matches a signature on the SFR engine.
Recommendations:
   Check syslogs and alerts on SFR module.
Syslogs:
   434002
  _____
Name: sfr-bad-tlv-received
SFR Module requested drop:
   This counter is incremented and the packet is dropped as requested by SFR module when
the packet has bad TLV's.
Recommendations:
```

```
Check syslogs and alerts on SFR module.
```

```
Syslogs:
   None
         _____
Name: sfr-malformed-packet
SFR Module requested drop:
   This counter is incremented and the packet is dropped as requested by SFR module when
the packet is malformed.
Recommendations:
   Check syslogs and alerts on SFR module.
Syslogs:
   None
     _____
Name: sfr-fail-close
SFR card is down:
   This counter is incremented and the packet is dropped when SFR card is down and
fail-close option was configured in SFR action.
Recommendations:
   Check and bring up the SFR card.
Syslogs:
   434001
  _____
Name: sfr-no-flow
SFR config removed for connection:
   This counter is incremented and the packet is dropped when SFR configuration is not
found for a particular connection.
Recommendations:
  check if any configuration changes have been done for SFR.
Syslogs:
  None
_____
Name: sfr-ha-request
SFR HA replication drop:
   This counter is incremented when the security appliance receives a SFR HA request
packet, but could not process it and the packet is dropped.
Recommendation:
   This could happen occasionally when SFR does not have the latest ASA HA state, like
right after ASA HA state change. If the counter is constantly increasing however, then it
can be because SFR and ASA are out of sync. If that happens, contact Cisco TAC for
assistance.
Syslogs:
   None.
```

_____ Name: sfr-invalid-encap SFR invalid header drop: This counter is incremented when the security appliance receives a SFR packet with invalid messsage header, and the packet is dropped. Recommendation: This should not happen. Contact Cisco TAC for assistance. Syslogs: None. _____ Name: sfr-bad-handle-received Received Bad flow handle in a packet from SFR Module, thus dropping flow. This counter is incremented, flow and packet are dropped on ASA as the handle for SFR flow has changed in flow duration. Recommendations: Check syslogs and alerts on SFR module. Syslogs: None _____ Name: sfr-rx-monitor-only SFR invalid monitor-only receive drop: This counter is incremented when the security appliance receives a SFR packet when in monitor-only mode, and the packet is dropped. Recommendation: This should not happen. Contact Cisco TAC for assistance. Syslogs: None. _____ Name: inspect-dp-out-of-memory Inspect Datapath out of memory: This counter is incremented when the inspect datapath fails to allocate memory. Recommendations: Check the system memory usage. This event normally happens when the system runs short of memory. Syslogs: None. _____ Name: app-recv-queue-not-ready Inspect Datapath peer index not ready: This counter is incremented when the application receiving queue is not ready. Recommendations:

booting, or Snort is in the middle of becoming up or down. Syslogs: None. _____ Name: snort-drop Snort requested to drop the frame: This counter is incremented and the packet is dropped as requested by Snort module. Recommendations: Review Snort policies for any such rule denying the flow. Syslogs: None. _____ Name: snort-down Drop the frame as the SNORT instance is down: This counter is incremented and the packet is dropped as the Snort module is down. Recommendations: Review Snort statistics for the reason behind SNORT instance down. Syslogs: None. _____ Name: snort-busy Drop the frame as SNORT instance is busy and can not handle: This counter is incremented and the packet is dropped as the Snort module is busy and unable to handle the frame. Recommendations: Review Snort statistics for the reason behind high load on SNORT instance. Syslogs: None. _____ Name: ips-license-disabled-fail-close IPS module license disabled: This counter is incremented and the packet is dropped when the IPS module license is disabled and the fail-close option was used in IPS inspection. Recommendations: Please apply an activiation key that has the IPS Module License enabled. Syslogs: 420008 _____

This event only happens when the system is in the transient state, such as the system is

```
Name: ips-fail
```

IPS config removed for connection: This counter is incremented and the packet is dropped when IPS configuration is not found for a particular connection. Recommendations: check if any configuration changes have been done for IPS. Syslogs: None _____ Name: ips-fail-close IPS card is down: This counter is incremented and the packet is dropped when IPS card is down and fail-close option was used in IPS inspection. Recommendations: Check and bring up the IPS card. Syslogs: 420001 _____ Name: ips-no-ipv6 Executing IPS software does not support IPv6: This counter is incremented when an IPv6 packet, configured to be directed toward IPS SSM, is discarded since the software executing on IPS SSM card does not support IPv6. Recommendations: Upgrade the IPS software to version 6.2 or later. Syslogs: None _____ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ Name: 12_acl FP L2 rule drop: This counter will increment when the appliance denies a packet due to a layer-2 ACL. By default, in routed mode the appliance will PERMIT: 1) IPv4 packets 2) IPv6 packets 3) ARP packets 4) L2 Destination MAC of FFFF:FFFF:FFFF (broadcast) 5) IPv4 MCAST packet with destination L2 of 0100:5E00:0000-0100:5EFE:FFFF 6) IPv6 MCAST packet with destination L2 of 3333:0000:0000-3333:FFFF:FFFF By default, in Transparent mode permits the routed mode ACL and PERMITS: 1) BPDU packets with destination L2 of 0100:0CCC:CCCD 2) Appletalk packets with destination L2 of 0900:0700:0000-0900:07FF:FFFF The user can also configure ethertype ACL(s) and apply them to an interface to permit

Note - Packets permitted by L2 ACLs may still be dropped by L3-L4 ACLs.

other types of L2 traffic.

사용 지침

```
Recommendation:
   If your running the appliance/context in transparent mode and your NON-IP packets are
dropped by the appliance, you can configure an ethertype ACL and apply the ACL to an access
group. Note - the appliance ethertype CLI only supports protocol types and not L2
destination MAC
                  addresses.
 Syslogs:
   106026, 106027
  _____
Name: 12_acl_vxlan
FP L2 rule VXLAN drop:
   This counter will increment when the appliance denies a packet because it fails to
locate VXLAN out_tag when applying layer-2 ACL checks.
 Recommendation:
  This only happens under VXLAN based tag-switching use case. Please make sure VXLAN
segment-id configuration and tag switching table are correct.
 Syslogs:
   None
_____
Name: intercept-unexpected
Intercept unexpected packet:
   Either received data from client while waiting for SYNACK from server or received a
packet which cannot be handled in a particular state of TCP intercept.
Recommendation:
   If this drop is causing the connection to fail, please have a sniffer trace of the
client and server side of the connection while reporting the issue. The box could be under
attack and the sniffer traces or capture would help narrowing down the culprit.
Syslogs:
   None.
                 _____
Name: no-mcast-entry
FP no mcast entry:
   A packet has arrived that matches a multicast flow, but the multicast service is no
longer enabled, or was re-enabled after the flow was built.
   - OR -
   A multicast entry change has been detected after a packet was punted to the CP, and the
NP can no longer forward the packet since no entry is present.
Recommendation:
   Reenable multicast if it is disabled.
   - OR -
   No action required.
Syslogs:
   None
                       _____
Name: no-mcast-intrf
FP no mcast output intrf:
```

All output interfaces have been removed from the multicast entry. - OR -The multicast packet could not be forwarded. Recommendation: Verify that there are no longer any receivers for this group. - OR -Verify that a flow exists for this packet. Syslogs: None _____ Name: fragment-reassembly-failed Fragment reassembly failed: This counter is incremented when the appliance fails to reassemble a chain of fragmented packets into a single packet. All the fragment packets in the chain are dropped. This is most probably because of failure while allocating memory for the reassembled packet. Recommendation: Use the show blocks command to monitor the current block memory. Syslogs: None _____ Name: ifc-classify Virtual firewall classification failed: A packet arrived on a shared interface, but failed to classify to any specific context interface. Recommendation: For software versions without customizable mac-address support, use the "global" or "static" command to specify the IPv4 addresses that belong to each context interface. For software versions with customizable mac-address support, enable "mac-address auto" in system context. Alternatively, configure unique MAC addresses for each context interfaces residing over a shared interface with "mac-address" command under each context interface submode. Syslogs: None. _____ Name: connection-lock Connection locking failed: While the packet was waiting for processing, the flow that would be usedwas destroyed. Recommendation: The message could occur from user interface command to remove connection in an device that is actively processing packet. Otherwise, investigate flow drop counter. This message may occur if the flow are forced dropped from error. Syslogs: None.

```
_____
Name: interface-down
Interface is down:
   This counter will increment for each packet received on an interface that is shutdown
via the 'shutdown' interface sub-mode command. For ingress traffic, the packet is dropped
after security context classification and if the interface associated with the context is
shut down. For egress traffic, the packet is dropped when the egress interface is shut
down.
Recommendation:
   No action required.
Syslogs:
   None.
   Name: service-interface-down
Service interface is down:
   ASA 1000V will drop any vPath tagged traffic if the service-interface has
                                                                       not been
configured.
Recommendation:
   Ensure that all security profile interfaces are associated with the inside
                                                                        interface
using
   service-interface security-profile all <inside_interface_name>
   (only needed in ASDM mode)
Syslogs:
   None.
_____
Name: invalid-app-length
Invalid App length:
   This counter will increment when the appliance detects an invalid length of the Layer 7
payload in the packet. Currently, it counts the drops by the DNS Guard function only.
Example: Incomplete DNS header.
Recommendation:
   No action required.
Syslogs:
   None.
  _____
Name: loopback-buffer-full
Loopback buffer full:
   This counter is incremented and the packet is dropped when packets are sent from one
context of the appliance to another context through a shared interface and there is no
buffer space in loopback queue.
Recommendations:
   Check system CPU to make sure it is not overloaded.
Syslogs:
   None
```

```
_____
Name: non-ip-pkt-in-routed-mode
Non-IP packet received in routed mode:
   This counter will increment when the appliance receives a packet which is NOT IPv4,
IPv6 or ARP and the appliance/context is configured for ROUTED mode. In normal operation
such packets should be dropped by the default L2 ACL configuration.
Recommendation:
   This indicates that a software error should be reported to the Cisco TAC.
Syslogs:
   106026, 106027
            _____
Name: host-move-pkt
FP host move packet:
   This counter will increment when the appliance/context is configured for transparent
and source interface of a known L2 MAC address is detected on a different interface.
Recommendation:
   This indicates that a host has been moved from one interface (i.e. LAN segment) to
another. This condition is normal while in transparent mode if the host has in fact been
moved. However, if the host move toggles back and forth between interfaces, a network loop
may be present.
Syslogs:
   412001, 412002, 322001
_____
Name: tfw-no-mgmt-ip-config
No management IP address configured for TFW:
   This counter is incremented when the security appliance receives an IP packet in
transparent mode and has no management IP address defined. The packet is dropped.
Recommendation:
   Configure the device with management IP address and mask values.
Syslogs:
   322004
_____
Name: passenger-flow-failed
Passenger flow processing error:
   This counter is incremented when the security appliance receives a tunnel IP packet and
an error is encountered during the passenger IP packet processing. The packet is dropped.
Recommendation:
   No action required.
Syslogs:
   None
 _____
```

사용 지침

Name: shunned Packet shunned: This counter will increment when a packet is received which has a source IP address that matches a host in the shun database. Recommendation: No action required. Syslogs: 401004 _____ Name: rm-conn-limit RM connection limit reached: This counter is incremented when the maximum number of connections for a context or the system has been reached and a new connection is attempted. Recommendation: The device administrator can use the commands 'show resource usage' and 'show resource usage system' to view context and system resource limits and 'Denied' counts and adjust resource limits if desired. Syslogs: 321001 _____ Name: rm-conn-rate-limit RM connection rate limit reached: This counter is incremented when the maximum connection rate for a context or the system has been reached and a new connection is attempted. Recommendation: The device administrator can use the commands 'show resource usage' and 'show resource usage system' to view context and system resource limits and 'Denied' counts and adjust resource limits if desired. Syslogs: 321002 _____ Name: np-socket-closed Dropped pending packets in a closed socket: If a socket is abruptly closed, by the user or software, then any pending packets in the pipeline for that socket are also dropped. This counter is incremented for each packet in the pipeline that is dropped. Recommendation: It is common to see this counter increment as part of normal operation. However, if the counter is rapidly incrementing and there is a major malfunction of socket-based applications, then this may be caused by a software defect. Contact the Cisco TAC to investigate the issue further. Syslogs:

None.

_____ Name: mp-pf-queue-full Port Forwarding Queue Is Full: This counter is incremented when the Port Forwarding application's internal queue is full and it receives another packet for transmission. Recommendation:

This indicates that a software error should be reported to the Cisco TAC.

Syslogs: None.

Name: ssm-dpp-invalid

Invalid packet received from SSM card:

This counter only applies to the ASA 5500 series adaptive security appliance. It is incremented when the security appliance receives a packet from the internal data plane interface but could not find the proper driver to parse it.

Recommendation:

The data plane driver is dynamically registered depending on the type of SSM installed in the system. So this could happen if data plane packets arrive before the security appliance is fully initialized. This counter is usually 0. You should not be concerned if there are a few drops. However, if this counter keeps rising when system is up and running, it may indicate a problem. Please contact Cisco Technical Assistance Center (TAC) if you suspect it affects the normal operation of your the security appliance.

Syslogs:

None.

Name: ssm-asdp-invalid

Invalid ASDP packet received from SSM card:

This counter only applies to the ASA 5500 series adaptive security appliance. It is incremented when the security appliance receives an ASA SSM Dataplane Protocol (ASDP) packet from the internal data plane interface, but the driver encountered a problem when parsing the packet. ASDP is a protocol used by the security appliance to communicate with certain types of SSMs, like the CSC-SSM. This could happen for various reasons, for example ASDP protocol version is not compatible between the security appliance and SSM, in which case the card manager process in the control plane issues system messages and CLI warnings to inform you of the proper version of images that need to be installed; the ASDP packet belongs to a connection that has already been terminated on the security appliance; the security appliance has switched to the standby state (if failover is enable) in which case it can no longer pass traffic; or any unexpected value when parsing the ASDP header and payload.

Recommendation:

The counter is usually 0 or a very small number. But user should not be concerned if the counter slowly increases over the time, especially when there has been a failover, or you have manually cleared connections on the security appliance via CLI. If the counter increases drastically during normal operation, please contact Cisco Technical Assistance Center (TAC).

Syslogs: 421003 421004

_____ Name: ssm-app-request Service module requested drop: This counter only applies to the ASA 5500 series adaptive security appliance. It is incremented when the application running on the SSM requests the security appliance to drop a packet. Recommendation: More information could be obtained by querying the incident report or system messages generated by the SSM itself. Please consult the documentation that comes with your SSM for instructions. Syslogs: None. _____ Name: ssm-app-fail Service module is down: This counter only applies to the ASA 5500 series adaptive security appliance. It is incremented when a packet to be inspected by the SSM is dropped because the SSM has become unavailable. Some examples of this are: software or hardware failure, software or signature upgrade, or the module being shut down. Recommendation: The card manager process running in the security appliance control plane would have issued system messages and CLI warning to inform you of the failure. Please consult the documentation that comes with the SSM to trouble shoot the SSM failure. Contact Cisco Technical Assistance Center (TAC) if needed. Syslog: None. _____ Name: wccp-return-no-route No route to host for WCCP returned packet: This counter is incremented when a packet is returned from the Cache Engine and the security appliance does not find a route for the original source of the packet. Recommendation: Verify that a route exists for the source ip address of the packet returned from Cache Engine. Syslogs: None. _____ Name: wccp-redirect-no-route No route to Cache Engine: This counter is incremented when the security appliance tries to redirect a packet and does not find a route to the Cache Engine. Recommendation: Verify that a route exists for Cache Engine. Syslogs:

None.

_____ Name: telnet-not-permitted Telnet not permitted on least secure interface: This counter is incremented and packet is dropped when the appliance receives a TCP SYN packet attempting to establish a TELNET session to the appliance and that packet was received on the least secure interface. Recommendation: To establish a TELNET session to the appliance via the least secure interface, first establish an IPSec tunnel to that interface and then connect the TELNET session over that tunnel. Syslogs: 402117 _____ Name: ipv6-sp-security-failed IPv6 slowpath security checks failed: This counter is incremented and the packet is dropped for one of the following reasons: 1) IPv6 through-the-box packet with identical source and destination address. 2) IPv6 through-the-box packet with linklocal source or destination address. 3) IPv6 through-the-box packet with multicast destination address. Recommendation: These packets could indicate malicious activity, or could be the result of a misconfigured IPv6 host. Use the packet capture feature to capture type asp packets, and use the source MAC address to identify the source. Syslogs: For identical source and destination address, syslog 106016, else none. _____ Name: ipv6-eh-inspect-failed IPv6 extension header is detected and denied: This counter is incremented and packet is dropped when the appliance receives a IPv6 packet but extension header could not be inspected due to memory allocation failed. Recommendation: Also check 'show memory' output to make sure appliance has enough memory to operate. Syslogs: None _____ Name: ipv6-bad-eh Bad IPv6 extension header is detected and denied: This counter is incremented and packet is dropped when the appliance receives a IPv6 packet with bad extension header. Recommendation: Check 'verify-header type' of 'parameters' in 'policy-map type ipv6'. Remove 'verify-header type' if the header conformance can be skipped. Syslogs:

325005

_____ Name: ipv6-bad-eh-order IPv6 extension headers not in proper order is detected and denied: This counter is incremented and packet is dropped when the appliance receives a IPv6 packet with extension headers not in proper order. Recommendation: Check 'verify-header order' of 'parameters' in 'policy-map type ipv6'. Remove 'verify-header order' if the header order can be arbitrary. Syslogs: 325005 Name: ipv6-mobility-denied IPv6 mobility extension header is denied by user configuration: This counter is incremented and packet is dropped when the appliance receives a IPv6 packet with mobility extension header which is denied by the user configuration rule. Recommendation: Check action of 'match header mobility' in 'policy-map type ipv6'. Remove action 'drop' if mobility should be allowed. Syslogs: 325004 _____ Name: ipv6-mobility-type-denied IPv6 mobility type extension header is denied by user configuration: This counter is incremented and packet is dropped when the appliance receives a IPv6 packet with mobility type extension header which is denied by the user configuration rule. Recommendation: Check action of 'match header mobility type' in 'policy-map type ipv6'. Remove action 'drop' if mobility should be allowed. Syslogs: 325004 _____ Name: ipv6-fragment-denied IPv6 fragmentation extension header is denied by user configuration: This counter is incremented and packet is dropped when the appliance receives a IPv6 packet with fragmentation extension header which is denied by the user configuration rule. Recommendation: Check action of 'match header fragmentation' in 'policy-map type ipv6'. Remove action 'drop' if fragmentation should be allowed. Syslogs: 325004

_____ Name: ipv6-routing-type-denied routing type is denied by IPv6 extension header configuration: This counter is incremented and packet is dropped when the appliance receives a IPv6 packet with routing type extension header which is denied by the user configuration rule. Recommendation: Check action of 'match header routing-type' in 'policy-map type ipv6'. Remove action 'drop' if routing-type should be allowed. Syslogs: 325004 Name: ipv6-eh-count-denied IPv6 extension headers exceeding configured maximum extension headers is denied: extension header count is denied by IPv6 extension header configuration: This counter is incremented and packet is dropped when the appliance receives a IPv6 packet with fragmentation extension header which is denied by the user configuration rule. Recommendation: Check action of 'match header fragmentation' in 'policy-map type ipv6'. Remove action 'drop' if fragmentation should be allowed. Syslogs: 325004 Name: ipv6-dest-option-denied destination-option is denied by IPv6 extension header configuration: This counter is incremented and packet is dropped when the appliance receives a IPv6 packet with destination-option extension header which is denied by the user configuration rule. Recommendation: Check action of 'match header destination-option' in 'policy-map type ipv6'. Remove action 'drop' if destination-option should be allowed. Syslogs: 325004 _____ Name: ipv6-hop-by-hop-denied IPv6 hop-by-hp extension header is denied by user configuration: This counter is incremented and packet is dropped when the appliance receives a IPv6 packet with hop-by-hop extension header which is denied by the user configuration rule. Recommendation: Check action of 'match header hop-by-hop' in 'policy-map type ipv6'. Remove action 'drop' if hop-by-hop should be allowed. Syslogs: 325004 _____

```
Name: ipv6-esp-denied
ESP is denied by IPv6 extension header configuration:
   This counter is incremented and packet is dropped when the appliance receives a IPv6
packet with ESP extension header which is denied by the user configuration rule.
Recommendation:
   Check action of 'match header esp' in 'policy-map type ipv6'. Remove action 'drop' if
ESP should be allowed.
Syslogs:
   325004
_____
Name: ipv6-ah-denied
AH is denied by IPv6 extension header configuration:
   This counter is incremented and packet is dropped when the appliance receives a IPv6
packet with AH extension header which is denied by the user configuration rule.
Recommendation:
   Check action of 'match header ah' in 'policy-map type ipv6'. Remove action 'drop' if AH
should be allowed.
Syslogs:
   325004
  _____
Name: channel-closed
Data path channel closed:
   This counter is incremented when the data path channel has been closed before the packet
attempts to be sent out through this channel. Recommendation:
   It is normal in multi-processor system when one processor closes the channel (e.g., via
CLI), and another processor tries to send a packet through the channel.
Syslogs:
   None
_____
Name: dispatch-decode-err
Diapatch decode error:
   This counter is incremented when the packet dispatch module finds an error when decoding
the frame. An example is an unsupported packet frame. Recommendation:
   Verify the packet format with a capture tool.
Syslogs:
   None
_____
Name: cp-event-queue-error
CP event queue error:
   This counter is incremented when a CP event queue enqueue attempt has
                                                                     failed due to
queue length exceeded. This queue is used by the data-path
                                                       to punt packets to the
control-point for additional processing. This condition is only possible in a
multi-processor enviroment. The module that attempted to enqueue the packet may issue
it's own packet specific drop in response to this error. Recommendation:
```

While this error does indicate a failure to completely process a packet, it may not adversely affect the connection. If the condition persists or connections are adversely affected contact the Cisco Technical Assistance Center (TAC). Syslogs: None

```
_____
Name: host-limit
Host limit exceeded:
   This counter is incremented when the licensed host limit is exceeded.
Recommendation:
   None.
Syslogs:
   450001
_____
Name: cp-syslog-event-queue-error
CP syslog event queue error:
   This counter is incremented when a CP syslog event queue enqueue attempt
                                                                     has failed
due to queue length exceeded. This queue is used by the data-path to punt logging
events to the control-point when logging
                                     destinations other than to a UDP server are
configured. This condition is only possible in a multi-processor environment.
Recommendation:
   While this error does indicate a failure to completely process a
                                                              logging event,
logging to UDP servers should not be affected. If the condition persists consider
lowering the logging level and/or removing logging destinations or contact the Cisco
Technical
           Assistance Center (TAC). Syslogs:
   None
_____
Name: dispatch-block-alloc
Dispatch block unavailable:
    This counter is incremented and the packet is dropped when the appliance
                                                                    could not
allocate a core local block to process the packet that was received by the interface
driver.
Recommendation:
   This may be due to packets being queued for later processing or a
                                                              block leak. Core
local blocks may also not be available if they are not replenished on time by the free
resource rebalancing logic. Please use "show blocks core" to further diagnose the
problem.
Syslogs:
   None
_____
Name: dispatch-queue-limit
Dispatch queue limit reached:
   There are 32K load balancer queues that a packet could be hashed to. Each
                                                                     queue has
a limit of 1000 packets. When more packets are attempted, tail drop occurs and this
counter is incremented.
Recommendation:
   If this happens excessively, find out which queues are affected and the
                                                                    connections
hashing to that queue. Send this information to development
Syslogs:
   None
 _____
```

사용 지침

Name: async-lock-queue-limit Async lock queue limit exceeded: Each async lock working queue has a limit of 1000. When more SIP packets are attempted to be dispatch to the work queue, packet will be dropped. Recommendation: Only SIP traffic may be dropped. When SIP packets have the same parent lock and they can be queued into the same async lock queue, thus may result into blocks depletion, becasue only single core is handling all the media. If a SIP packet attempts to be queued when the size of the async lock queue exceeds the limit, the packet will be dropped. Syslogs: None. _____ Name: security-profile-not-used Security-profile not used: This traffic does not use a security-profile. Traffic through ASA 1000V is expected to use a security-profile configured on Nexus 1000V. Recommendation: Check the port-profile configuration on the Nexus 1000V with "show port-profile" and verify that a security-profile is configured for each port-profile redirecting traffic security-profile names match between Nexus 1000V and ASA 1000V. to ASA 1000V, and that that security-profiles are associated with the inside interface using Verifv "service-interface security-profile all <inside_interface_name>" on ASA 1000V. Use "show vsn port" on Nexus 1000V and "show vsn security-profile" on ASA 1000V to verify that security-profiles have matching ID values on both devices. Svslogs: None. _____ _____ Name: security-profile-not-matched Security-profile not matched: This traffic contains a security-profile ID that does not match a security-profile on ASA 1000V. Recommendation: Check the port-profile configuration on the Nexus 1000V with "show port-profile" and verify that a security-profile is configured for each port-profile redirecting traffic to ASA 1000V, and that security-profile names match between Nexus 1000V and ASA 1000V. Verify that security-profiles are associated with the inside interface using "service-interface security-profile all <inside_interface_name>" on ASA 1000V. Use "show vsn port" on Nexus 1000V and "show vsn security-profile" on ASA 1000V to verify that security-profiles have matching ID values on both devices. Syslogs: None. _____ Name: loopback-lock-failed Loopback lock failed: This counter is incremented and the packet is dropped when packets are sent from one context of the appliance to another context through a shared interface and the loopback queue has failed to acquire a lock. Recommendations: This condition should never be encountered during normal operation and may indicate

a software problem with the appliance. Contact the Cisco Technical Assistance Center (TAC) if this error occurs.

Syslogs: None _____ Name: loopback-ifc-not-found Loopback output interface not found: This counter is incremented and the packet is dropped when packets are sent from one context of the appliance to another context through a shared interface, and the output interface is not found by the loopback queue. Recommendations: This condition should never be encountered during normal operation and may indicate a software problem with the appliance. Contact the Cisco Technical Assistance Center (TAC) if this error occurs. Syslogs: None _____ Name: loopback-count-exceeded Loopback count exceeded: This counter is incremented and the packet is dropped when a packet is sent from one context of the appliance to another context through a shared interface, but this packet has exceeded the number of times it is allowed to queue to the loopback queue. Recommendations: Check the context configuration for each context. The packet is entering a loop in the context configurations so that it is stuck between contexts, and is repeatedly put into the loopback queue. Syslogs: None _____ Name: ike-sa-rate-limit IKE need SA indication per SA rule rate limit exceeded: This counter will increment when the appliance attempts to send a message indicating that a new SA is needed to a rate-limited control point service routine and the rate limit (per/second) is now being exceeded. The current rate is one message every two seconds. Recommendation: This counter is informational and the behavior expected. The packet will be dropped. Syslogs: None _____ Name: ike-sa-global-rate-limit IKE need SA indication global rate limit exceeded:

This counter will increment when the appliance attempts to send a message indicating that a new SA is needed to a rate-limited control point service routine and the global rate limit (per/second) is now being exceeded. The current rate is ten message per second.

```
Recommendation:
   This counter is informational and the behavior expected. The packet will
                                                                       be dropped.
Syslogs:
   None
          _____
Name: backplane-channel-null
Backplane channel null:
The card backplane channel was NULL. This may happen because the channel
was not initialized correctly and had to be closed. ASA will drop the packet.
Recommendation:
   This should not happen. Contact Cisco TAC for assistance.
Syslogs:
   None.
  _____
Name: unable-to-replicate-packets
Packet dropped and not replicated due to resource limitation:
   In case of shared interface, we need to loopback multicast and broadcast traffic. When
system resource 'packet block extension memory' limitation is reached, this counter will be
incremented, the packet will be droppped and the packet will not be replicated to other
contexts.
Recommendation:
   - Observe if free system memory is low.
Syslogs:
   None
_____
Name: inspect-scansafe-server-not-reachable
Scansafe server not reachable:
   This counter is incremented when the security appliance finds scansafe cloud down. The
packet is dropped and the connection isclosed.
Recommendation:
   Verify if the configured scansafe servers are reachable from the security appliance.
Syslogs:
   775002.
    _____
Name: inspect-scansafe-public_key_not_configured
Scansafe public key not configured:
   This counter is incremented when the scansafe public key is not configured. The packet
is dropped and the connection isclosed.
Recommendation:
   Verify if the configured scansafe public key is configured on the security appliance.
Syslogs:
   775002.
```

```
_____
Name: inspect-scansafe-license-key-not-configured
Scansafe license key not configured:
   This counter is incremented when the scansafe licnese key is not configured. The packet
is dropped and the connection isclosed.
Recommendation:
   Verify if the configured scansafe license key is configured on the security appliance.
Syslogs:
   775002.
     _____
Name: inspect-scansafe-encoding-failed
Inspect scansafe header encoding failed :
   This counter is incremented when the base64 encoding of user and group name is failed.
The packet is dropped and connection is closed.
Syslogs:
   775002.
_____
Name: inspect-scansafe-hdr-encryption-failed
Inspect scansafe header encryption failed:
   This counter is incremented when the encryption of scansafe header is failed. The
packet is dropped and connection is closed.
Syslogs:
   775002.
_____
Name: inspect-scansafe-max-conn-reached
Inspect scansafe max allowed connections reached:
   This counter is incremented when we get a new connection and the maximum allowed
concurrent scansafe connection for the platform is already reached. The packet is dropped
and connection is closed.
Syslogs:
   775002.
_____
Name: inspect-scansafe-duplicate-conn
Inspect scansafe duplicate connection:
   This counter is incremented when duplicate connection with the same source ip address
and port. This packet will be dropped and connection will be closed.
Syslogs:
  775002.
  _____
Name: np-socket-lock-failure
Dropped pending packets due to a failed attempt to get an internal socket lock:
   This error occurs if an attempt to grab an internal socket lock fails.
```

Recommendation: This condition should never be encountered during normal operation and may indicate a software problem with the appliance. Contact the Cisco Technical Assistance Center (TAC) if this error occurs. Syslogs: None. _____ Name: mp-service-inject-failed SERVICE Module failed to inject a packet: This error occurs if an attempt to inject a packet via the SERVICE Module fails. Recommendation: None. Syslogs: None. _____ Name: same-physical-interface Same input and output physical interface: on ASA 1000V. A flow cannot use the same physical interface for input and output Recommendation: Check the NAT and routing policies configured on ASA 1000V. Use ASA 1000V "packet-tracer" command to determine which security-profiles are used based on the NAT and routing policies configured. Use "show running-config service-interface" to display the association between the physical interfaces and the configured security-profiles. Syslogs: None. ------Name: vPath-license-failure Packet dropped due to vPath license failure: Traffic is dropped due to licensing failure for ASA 1000V. Recommendation: Check Nexus 1000V and verify that there are sufficient ASA 1000V licenses installed to support all ASA 1000V virtual machines in use. Use "show license" to check the available licenses for ASA 1000V and use "show license usage" to check the status of them. Syslogs: 4450002. _____ Name: nat-64-or-46-conversion-fail IPv6 to IPv4 or vice-versa conversion failure: This condition occurs when there is a failure in coversion of IPv6 traffic to IPv4 or vice-versa. Recommendation: Verify if the NAT64 or NAT46 policies are configured properly. Syslogs: None.

```
_____
Name: cmd-invalid-encap
Invalid Encapsulation:
   This counter is incremented when the security appliance receives a invalid CMD packet.
The packet is dropped.
Recommendation:
   Verify that directly connected CMD supported devices have proper CMD settings.
Syslogs:
   None.
_____
Name: ifc-not-cmd-enabled
Interface not CMD configured
   This counter is incremented when the security appliance receives a CMD packet on an
interface not configured to recieve one. The packet is dropped.
Recommendation:
   Verify that interface under consideration has proper CMD settings.
Syslogs:
  None.
 _____
Name: cluster-not-owner
Cluster not owner:
  A Cluster data packet was received without a flow.
Recommendation:
  None.
Syslogs:
   None.
_____
Name: cluster-invalid-owner
Cluster invalid owner:
   A Cluster data packet was received when the owner is not in the cluster.
Recommendation:
  None.
Syslogs:
   None.
_____
Name: cluster-stub-uninterested
Cluster stub uninterested:
   A Cluster data packet was received when there is no owner or director.
Recommendation:
  None.
Syslogs:
  None.
 _____
```

```
사용 지침
```

```
Name: cluster-ccl-cfull-sent
CLU FULL sent:
   A Cluster data packet was received over CCL and full flow is built on a new owner. This
packet is no longer needed.
Recommendation:
   None.
Syslogs:
   None.
_____
Name: cluster-ccl-backup
Cluster CCL backup:
   A Cluster data packet was received over CCL on a backup unit, when it should have been
received on the owner+director unit.
Recommendation:
   None.
Syslogs:
   None.
_____
Name: cluster-stub-to-full
Cluster stub to full flow:
   A Cluster packet was received on director, stub flow was converted to full flow. Drop
this packet and wait for retransmission.
Recommendation:
   None.
Syslogs:
   None.
_____
Name: cluster-ccl-unknown
Cluster CCL unknown role:
   A Cluster data packet was received over CCL and no matching flow is found, and unit has
unknown role.
Recommendation:
   None.
Syslogs:
   None.
  _____
Name: cluster-ccl-unknown-stub
Cluster CCL unknown stub:
   A Cluster data packet was received over CCL and a matching stub flow found, but unit has
unknown role.
Recommendation:
   None.
Syslogs:
   None.
_____
Name: cluster-owner-update
Cluster owner update:
   A Cluster data packet was received updating the flow owner.
Recommendation:
```

```
None.
Syslogs:
   None.
     _____
Name: cluster-invalid-pkt
Cluster rcvd invalid packet:
   An invalid cluster packet was received.
Recommendation:
   None.
Syslogs:
   None.
_____
Name: cluster-no-msgp
Cluster unit is out of message descriptor:
   Cluster may be oversubscribed because cluster is under high pressure to send out
cluster logic update (CLU) message.
Recommendation:
   This behavior is expected as cluster is oversubscribed and is under
                                                               high pressure
to send out cluster logic update (CLU) message. Please avoid oversubscribing the
cluster.
Syslogs:
   None.
 _____
Name: cluster-slave-ignored
Flow matched a cluster drop-on-slave classify rule:
   A multicast routing packet was received on a L3 cluster interface when the unit was
a slave. Only a master unit is permitted to process these packets.
Recommendation:
   This counter is informational and the behavior expected. The packet is processed by
master.
Syslogs:
   None.
 _____
Name: cluster-non-owner-ignored
Flow matched a cluster drop-on-non-owner classify rule:
   A multicast data packet was received on a L3 cluster
                                                   interface when the unit was
not an elected owner unit. Only an elected owner unit is permitted to process
                                                                      these
packets.
Recommendation:
   This counter is informational and the behavior expected. The packet is processed by
one elected owner unit.
Syslogs:
   None.
               _____
Name: nat-xlate-failed
NAT failed:
   Failed to create an xlate to translate an IP or transport header.
Recommendation:
```

사용 지침

If NAT is not desired, disable "nat-control". Otherwise, use the "static", "nat" or "global" command to configure NAT policy for the dropped flow. For dynamic NAT, ensure that each "nat" command is paired with at least one "global" command. Use "show nat" and "debug pix process" to verify NAT rules. Svslogs: 305005, 305006, 305009, 305010, 305011, 305012 _____ Name: nat-rpf-failed NAT reverse path failed: Rejected attempt to connect to a translated host using the translated host's real address. Recommendation: When not on the same interface as the host undergoing NAT, use the mapped address instead of the real address to connect to the host. Also, enable the appropriate inspect command if the application embeds IP address. Syslogs: 305005 _____ Name: nat-cluster-input NAT invalid input: An input value for clustering communication contains an unexpected or invalid value. Recommendation: This could be an internal software error. Contact Cisco Systems. Syslogs: None. Name: nat-no-xlate-to-pat-pool NAT no xlate to pat pool: No pre-existing xlate found for a connection with a destination matching a mapped address in a PAT pool. Recommendation: Configure static PAT if access is desired. Syslogs: None. _____ Name: cluster-peer-mcast-ignored Flow matched a cluster peer mcast data traffic classify rule: A multicast data packet was received on a L3 cluster interface when it is from a cluster peer unit corresponding interface. This is a packet flooded back from L3 subnet. Recommendation: This counter is informational and the behavior expected. The packet has been forwarded out of the cluster and should be ignored by cluster. Syslogs: None. _____

Name: cluster-dispatch-queue-fail

Cluster failed to enqueue into global dispatch work queue: A forwarded data packet failed to enqueue into global dispatch work queue. Recommendation: This could be an internal software error. Contact Cisco Systems. Syslogs: None. _____ Name: cluster-dir-flow-create-fail Cluster director failed to create director flow: Director is trying to create a stub flow but failed due to resource limitation. The resource limit may be either: 1) system memory 2) packet block extension memory 3) system connection limit Causes 1 and 2 will occur simultaneously with flow drop reason "No memory to complete flow". Recommendation: - Observe if free system memory is low. - Observe if flow drop reason "No memory to complete flow" occurs. - Observe if connection count reaches the system connection limit with the command "show resource usage". Syslogs: None _____ Name: cluster-early-sec-chk-fail Cluster early security check has failed: Director applied early security check has failed due to ACL, WCCP redirect, TCP-intercept or IP option. Recommendation: This counter is informational and the behavior expected. The packet will be dropped. Syslogs: None. _____ Name: cluster-queued-ccl-unknown Cluster CCL unknown stub: A queued cluster data packet received over ccl was processed but unit has unknown role. Recommendation: None. Syslogs: None. _____ Name: cluster-dir-nat-changed Cluster director NAT action changed: Cluster director NAT action has changed due to NAT policy change, update or expiration before queued ccl data packet can be processed.Recommendation: This counter is informational and the behavior expected. The packet will be dropped. Syslogs: None.

_____ Name: cluster-dir-invalid-ifc Cluster director has packet with invalid ingress/egress interface: Cluster director has processed a previously queued packet with invalid ingress and/or egress interface. This is a result of interface removal (through CLI) before the packet can be processed. Recommendation: This counter is informational and the behavior expected. The packet will be dropped. Syslogs: None. Name: cluster-slave-data-ifc-not-ready Cluster data interface on slave unit is not ready (some data interfaces are in different state from the master). For a L3 interface that is not management-only, before the data any connection on this L3 interface. Packets interface is ready the slave cannot own must be owned by the slave are dropped. From the box packets are also dropped before slave's data interface becomes ready. This drop will not occur after slave's data interface is ready and the slave fully joins the cluster. Recommendation: This counter is informational and the behavior expected. The packet will be dropped. Syslogs: None. _____ Name: nat-cluster-pool-update-fail Cluster master failed to send NAT pool update to slave: Cluster master has failed to send NAT pool update to slave unit. This drop will increase if system resources is low. Recommendation: - Observe if free system memory is low. - Observe if "SEC_NAT_SEND_NO_BUFFER" counter is increasing. Syslogs: None. _____ Name: nat-cluster-invalid-unxlate-redirect Cluster member dropped an invalid NAT untranslate redirect packet from peer: Cluster member received a NAT untranslate packet from peer. However this member does not own the NAT address pool the packet belongs to. Recommendation: Thsi counter is a temporal condition after a cluster member failure. However, if this counter is incremented continuously, it could be an internal software error. Contact Cisco Systems in such case.Syslogs: None. _____ Name: platform-unlicensed ASAv platform is unlicensed: The ASAv is not licensed. All data traffic traversing the appliance will be dropped until the ASAv is licensed. Recommendation:

```
Check the platform license state with "show activation-key" and
                                                          install the
appropriate ASAv platform license.
Syslogs:
   None.
           -----
Name: cluster-forward-error
Cluster member failed to send data packet over CCL:
   Cluster member failed to transmit control packet over the CCL link.
Recommendation:
   None.
Syslogs:
   None.
  _____
Name: cluster-tp-version-incompatible
The packet contains an incompatible transport protocol:
   The transport protocol of the packet contains a transport protocol that
                                                                 is not
compatible.
Recommendation:
   None.
Syslogs:
   None.
  _____
Name: cluster-ip-version-error
IP version mismatch between layer-2 and layer-3 headers:
   The IP protocol versions in layer-2 and layer-3 headers mismatch
Recommendation:
   None.
Syslogs:
   None.
_____
Name: cluster-tp-sender-myself
DP message over CCL from a unit with same ID as myself:
   The sender information in the transport header indicates that the sender
                                                                  is myself,
which could happen if two clusters (with overlapping IDs) exist
                                                     on the same network
segment.
Recommendation:
   None.
Syslogs:
   None.
_____
Name: cluster-ttl-expired
TTL of the packet has expired:
   Maximum TTL value has exceeded for this packet.
Recommendation:
   None.
Syslogs:
   None.
```

```
Name: cluster-ttl-invalid
TTL of the packet is invalid:
   The TTL value of the packet is not a valid value.
Recommendation:
   None.
Syslogs:
   None.
 _____
Name: cluster-non-ip-pkt
Layer 3 protocol of the packet is not IP:
   The packet is not IPv4, IPv6 or an ARP packet.
Recommendation:
   None.
Syslogs:
   None.
_____
Name: cluster-bad-tp-pkt
Failed to fetch the transport layer header of the packet:
   Fetching the transport layer header of the packet failed.
Recommendation:
   None.
Syslogs:
   None.
 _____
Name: cluster-bad-trailer
Failed to fetch the trailer of the packet:
   Fetching the trailer of the packet failed.
Recommendation:
   None.
Syslogs:
   None.
 _____
Name: cluster-frag-owner-query-error
Cluster fragment failed to query flow director for flow owner:
   A failure either when forwarding first fragment to flow director or
                                                           fragment chain
reinsert failure.
Recommendation:
   None.
Syslogs:
   None.
_____
Name: cluster-frag-error
The fragment is not formatted correctly:
   The fragment is not formatted correctly and cannot be processed or
                                                           forwarding to the
Fragment Owner failed.
Recommendation:
  None.
Syslogs:
```

None.

```
_____
Name: cluster-bad-ifc-goid-in-trailer
Failed to find ifc from goid in the trailer:
   The goid extracted from the trailer does not yield a valid real ifc.
Recommendation:
   None.
Syslogs:
   None.
_____
Name: cluster-bad-trailer-tlv
Cluster CCL packet trailer has incorrect tlv:
   Packet received on the Cluster CCL interface has incorrect trailer tlv option.
Recommendation:
   None.
Syslogs:
   None.
  _____
Name: rule-transaction-in-progress
Initial rule transaction compiling in progress:
   This reason is given for dropping a packet when the transactional
                                                             commit mode is
used and the initial rule transaction compiling is still in progress. All
through-the-box traffic is dropped when the ASA is in this state.
Recommendation:
   This is a temporal condition that happens once during the system
                                                            initialization or
the security context initialization. The duration of
                                               this condition depends on the
number of rules, such as ACLs or NAT rules, in the configuration.
Syslogs:
   None.
_____
Name: mcast-in-nonactive-device
The device in HA mode received a multicast packet when it is not in active state:
   This reason is given for dropping a packet when the device is in HA mode and is
currently not in active state and a multicast packet is received. As the HA device can
only process the multicast in the active state, the received packet will be dropped.
Recommendation:
   None.
Syslogs:
   None.
_____
Name: cluster-semi-scale-not-ready
Semi scalable owner flow is not ready yet:
   Bulk sync has not elected a valid new owner for this semi-scalable flow yet.
Recommendation:
   None.
Syslogs:
   None.
```

show asp drop 명령 사용법

사용 지침

```
_____
Name: cluster-app-no-forward
Application packet not allowed to be forwarded:
   Some applications might have problems if their packets are
                                                      forwarded.
Recommendation:
   None.
Syslogs:
   None.
 _____
Name: block-no-prepend
Module does not have enough space to insert header:
   This counter will increment when there is not enough space before the packet data to
prepend a header in order to put the packet onto the network.
Recommendation:
   This indicates that a software error should be reported to the Cisco TAC.
Syslogs:
  None.
_____
Name: tcp-proxy-no-inspection
TCP proxy no inspection:
   This counter is incremented and the packet is dropped when tcp proxy couldn't pass the
packets for inspection.
Recommendations:
   None
Syslogs:
   None
  _____
Name: tcp-proxy-3whs-failed
TCP proxy three way handshake failed:
   This counter is incremented and the packet is dropped when the TCP proxy encounters a
error during three way handshake.
Recommendations:
   None
Syslogs:
   None
_____
Name: tcp-proxy-mixed-mode-failed
TCP proxy mixed mode failed:
   This counter is incremented and the packet is dropped when the TCP proxy encounters a
error during mixed mode operation, transitioning from light weight TCP proxy to full mode
TCP proxy.
Recommendations:
   None
Syslogs:
   None
```

```
_____
Name: tcp-proxy-mixed-mode-drop
TCP proxy mixed mode drop:
   This counter is incremented and the light weight proxy tx queue is cleared when the TCP
proxy is transitioning from light weight TCP proxy to full TCP proxy.We enqueue a FIN
segment when inspection is in progress When we trigger full proxy, this queue should be
cleared.
Recommendations:
   None
Syslogs:
   None
  _____
Name: tcp-proxy-ooo-drop
TCP proxy 000:
   This counter is incremented and the packet is dropped when the TCP proxyreceives out of
order packets for processing in lightweight mode.
Recommendations:
   None
Syslogs:
   None
_____
Name: tcp-proxy-retransmit-drop
TCP proxy retransmit:
   This counter is incremented and the packet is dropped when tcp proxy received a
retransmit packet that is still being inspected.
Recommendations:
   None
Syslogs:
   None
_____
Name: tcp-proxy-fp21w-enqueue-limit-drop
TCP proxy FP2LW enqueue limit:
   This counter is incremented and the packet is dropped when tcp proxy receives a packet
while trying to bypass Full Proxy and proxy layer has reached its enqueue limit.
Recommendations:
   None
Syslogs:
   None
  _____
Name: tcp-proxy-null-flow-drop
```

```
TCP proxy NULL flow:
```

```
This counter is incremented and the packet is dropped when tcp proxy received a packet
for a non-existant flow.
Recommendations:
   None
Syslogs:
   None
 _____
Name: tcp-proxy-copy-failed-drop
TCP proxy packet copy failed:
   This counter is incremented and the packet is dropped when the tcp proxy was unable to
copy a packet since it was unable to allocate a new one.
Recommendations:
   None
Syslogs:
   None
  _____
Name: tcp-proxy-12-copy-failed-drop
TCP proxy L2 copy failed:
   This counter is incremented and the packet is dropped when the tcp proxy was unable to
copy L2 header to a packet in Full Proxy mode.
Recommendations:
   None
Syslogs:
   None
_____
Name: tcp-proxy-invalid-tcp-state-drop
TCP proxy invalid TCP state:
   This counter is incremented and the packet is dropped when the TCB is in an invalid
state.
Recommendations:
   None
Syslogs:
   None
_____
Name: tcp-proxy-invalid-tcp-checksum-drop
TCP proxy invalid TCP checksum:
   This counter is incremented and the packet is dropped when the RST/FIN with data packet
received with invalid checksum.
Recommendations:
   None
```

```
Syslogs:
```

None

```
_____
Name: pdts-punt-limit-exceeded
PDTS Punt limit exceeded:
    This counter is incremented and the packet dropped when datapath punts packets to
inspectors and the no. of packets queued exceeded the maximum limit.
Recommendations:
    None
Syslogs:
    None
_____
Name: monitor-only-mode-hdr-mismatch
Monitor-only mode packets:
    This counter is incremented and the packet dropped if there is a mismatch in
monitor-only mode config and the AFBP header flag.
Recommendations:
    None
Syslogs:
    None
_____
Name: ids-pkts-processed
Packets processed in IDS modes:
   This counter is incremented after packet processing is complete in inline-tap and
passive modes, the packet is dropped after this.
Recommendations:
   Expected behavior in these modes, no action required.
Syslogs:
   None.
 _____
Name: snort-blist-full
Snort flow block list limit reached:
    This counter is incremented and the packet dropped when datapath buffers packets to
avoid out-of-order on fast-forwarded flows and the no. of packets queued exceeded the
maximum limit.
Recommendations:
    None
Syslogs:
    None
    _____
Name: pbr-next-hop-same
Drop the packet if next hop of pbr is self:
   This counter is incremented and the packet is dropped as the next hop configured on pbr
is of connected IP.
```

사용 지침

```
Recommendations:
   Do Not add connected ip as next hop in PBR .
Syslogs:
   None.
  _____
Name: object-group-search-threshold-exceeded
object group search threshold exceeded:
   This counter is incremented when a packet is checked against an access-list and the
number of access-list object-groups that matched the packet exceeds 10000. If this occurs,
the packet is dropped. Access-list checks can negatively impact the performance of the
device when a packet matches an excessive number of object-groups when object-group-search
access-control feature is enabled.
Recommendations:
   Reconfigure the access-list and object-group configuration to ensure that traffic will
not match an excess number of object-groups. Usually this problem is triggered by a large
number of overlapping or duplicated objects. Examine the traffic being dropped with 'capture
asp type asp-drop ogs-match-limit-exceeded', then 'show capture asp'.
Syslogs:
   None.
  _____
Name: reason-info
Preprocessor sending packet info to tracer:
   This counter is used internally by snort.
Recommendations:
   None.
Syslogs:
   None.
 _____
Name: session-string
Session debug info:
   This counter is used internally by snort.
Recommendations:
   None.
Syslogs:
   None.
  _____
Name: none
Not a Blocking Packet:
   This counter is incremented when the packet is not blocked.
Recommendations:
   None.
```

None.

```
_____
Name: a-module
Packet is unknown or traced:
  This counter is incremented when the packet blocked by an unknown preprocessor.
Recommendations:
   None.
Syslogs:
   None.
_____
Name: dag-retry
Wait for re-transmitted packet from DAQ:
   This counter is incremented when a packet re-transmission is needed from DAQ.
Recommendations:
   None.
Syslogs:
   None.
 _____
Name: snort-module
Blocked or blacklisted by snort:
   This counter is incremented and the packet is dropped as requested by snort.
Recommendations:
   Review the snort output in packet tracer or capture with trace enabled.
Syslogs:
   None.
_____
Name: appid
Blocked or blacklisted by the AppID preprocessor:
   This counter is incremented and the packet is dropped as requested by the AppID
preprocessor.
Recommendations:
   Review the snort output in packet tracer or capture with trace enabled.
Syslogs:
   None.
  _____
Name: ssl-preproc
Blocked or blacklisted by the SSL preprocessor:
   This counter is incremented and the packet is dropped as requested by the SSL
preprocessor.
```

Review the snort output in packet tracer or capture with trace enabled. Syslogs: None. _____ Name: firewall Blocked or blacklisted by the firewall preprocessor: This counter is incremented and the packet is dropped as requested by the firewall preprocessor. Recommendations: Review the snort output in packet tracer or capture with trace enabled. Syslogs: None. _____ Name: captive-portal Blocked or blacklisted by the captive portal preprocessor: This counter is incremented and the packet is dropped as requested by the captive portal preprocessor. Recommendations: Review the snort output in packet tracer or capture with trace enabled. Syslogs: None. _____ Name: safe-search Blocked or blacklisted by the safe search preprocessor: This counter is incremented and the packet is dropped as requested by the safe search preprocessor. Recommendations: Review the snort output in packet tracer or capture with trace enabled. Syslogs: None. _____ Name: si Blocked or blacklisted by the SI preprocessor: This counter is incremented and the packet is dropped as requested by the SI preprocessor. Recommendations: Review the snort output in packet tracer or capture with trace enabled. Syslogs: None. _____

Name: prefilter Blocked or blacklisted by the prefilter preprocessor: This counter is incremented and the packet is dropped as requested by the prefilter preprocessor. Recommendations: Review the snort output in packet tracer or capture with trace enabled. Syslogs: None. _____ Name: ftp Blocked or blacklisted by the FTP preprocessor: This counter is incremented and the packet is dropped as requested by the FTP preprocessor. Recommendations: Review the snort output in packet tracer or capture with trace enabled. Syslogs: None. _____ Name: stream Blocked or blacklisted by the stream preprocessor: This counter is incremented and the packet is dropped as requested by the stream preprocessor. Recommendations: Review the snort output in packet tracer or capture with trace enabled. Syslogs: None. _____ Name: session-preproc Blocked or blacklisted by the session preprocessor: This counter is incremented and the packet is dropped as requested by the session preprocessor. Recommendations: Review the snort output in packet tracer or capture with trace enabled. Syslogs: None. Name: defragmentation Blocked or blacklisted by the defragmentation preprocessor: This counter is incremented and the packet is dropped as requested by the defragmentation preprocessor. Recommendations: Review the snort output in packet tracer or capture with trace enabled.

Syslogs: None. _____ Name: snort-react Blocked or blacklisted by the snort react preprocessor: This counter is incremented and the packet is dropped as requested by the snort react preprocessor. Recommendations: Review the snort output in packet tracer or capture with trace enabled. Syslogs: None. _____ Name: snort-response Blocked or blacklisted by the snort response preprocessor: This counter is incremented and the packet is dropped as requested by the snort response preprocessor. Recommendations: Review the snort output in packet tracer or capture with trace enabled. Syslogs: None. _____ Name: reputation Blocked or blacklisted by the reputation preprocessor: This counter is incremented and the packet is dropped as requested by the reputation preprocessor. Recommendations: Review the snort output in packet tracer or capture with trace enabled. Syslogs: None. _____ Name: x-link2state Blocked or blacklisted by the x-link2state preprocessor: This counter is incremented and the packet is dropped as requested by the x-link2state preprocessor. Recommendations: Review the snort output in packet tracer or capture with trace enabled. Syslogs: None. _____ Name: back-orifice

Blocked or blacklisted by the back orifice preprocessor: This counter is incremented and the packet is dropped as requested by the back orifice preprocessor. Recommendations: Review the snort output in packet tracer or capture with trace enabled. Syslogs: None. _____ Name: smb Blocked or blacklisted by the SMB preprocessor: This counter is incremented and the packet is dropped as requested by the SMB preprocessor. Recommendations: Review the snort output in packet tracer or capture with trace enabled. Syslogs: None. _____ Name: file-process Blocked or blacklisted by the file process preprocessor: This counter is incremented and the packet is dropped as requested by thefile process preprocessor. Recommendations: Review the snort output in packet tracer or capture with trace enabled. Syslogs: None. _____ Name: ips-preproc Blocked or blacklisted by the IPS preprocessor: This counter is incremented and the packet is dropped as requested by the IPS preprocessor. Recommendations: Review the snort output in packet tracer or capture with trace enabled. Syslogs: None. _____ Name: cluster-ccl-bad-unxlate-redirect Cluster member dropped an unexpected NAT untranslate redirect packet from peer: Dynamic PAT pool owner received a NAT untranslate packet from peer. However it matches a director stub flow. Recommendation: This counter is a temporal condition after a cluster member failure. However, if

None. _____ Name: cluster-ccl-bad-unxlate-redirect Cluster member dropped an unexpected NAT untranslate redirect packet from peer: Dynamic PAT pool owner received a NAT untranslate packet from peer. However it matches a backup stub flow. Recommendation: This counter is a temporal condition after a cluster member failure. However, if this counter is incremented continuously, there could be a timing issue that caused the error. Contact Cisco Systems in such case.Syslogs: None. _____ Name: vpn-cflow-fail-due-to-full-flow Packet dropped due to a conflicting full flow: This counter is incremented when we fail to create a cluster stub flow in the peer receiving a forwarded VPN decoded packet, because there is already a full flow. Recommendations: None. Syslogs: None. _____ Name: unable-to-create-vpn-fwd-cflow Packet dropped due to resource limitation: This counter is incremented when we fail to create a cluster stub flow in the peer receiving a forwarded VPN decoded packet. Recommendations: None. Syslogs: None. _____ Name: unable-to-find-vpn-context Packet dropped due to failure to find the VPN context: This counter is incremented when a cluster peer tries to encrypt a packet but fails to get the VPN context. Recommendations: None. Syslogs: None. _____ Name: unable-to-find-owner Packet dropped due to failure to find the owner: This counter is incremented when a cluster node fails to find the onwer for the connection from VPN director

```
Recommendations:
   Check whether the Director node is ready to process queries.
Syslogs:
   None.
  _____
Name: invalid-onwer-id-received
Packet dropped as invalid owner id received :
   This counter is incremented when a cluster node gets a invalid owner id from the VPN
director.
Recommendations:
   None.
Syslogs:
   None.
_____
Name: unable-to-add-to-owner-table
Packet dropped due to failure to add an entry to the owner table:
   This counter is incremented when a cluster node fails to add the onwer entry for the
connection
Recommendations:
   None.
Syslogs:
   None.
_____
Name: ike-spi-corrupted-value
IKE packet containing corrupted SPI:
   This counter is incremented and the packet is dropped when SPI consistency checks fail
indicating the packet might have been altered in transit.
Recommendations:
    Check the syslog to get more information about the origin of packet. This situation
can be normal and transient. If the drops persist, call TAC to investigate further.
Syslogs:
   753001
-----
Name: ike-spi-cookie-expired
IKE packet with expired SPI cookie:
   This counter is incremented and the packet is dropped when the SPI received in the
incoming packet is considered expired.
Recommendations:
   Check the syslog to get more information about the origin of packet. If this is a valid
peer connection, this may be the result of a very long network delay that should be
eliminated. If the drops persist, call TAC to investigate further.
```

```
Syslogs:
       753001
         _____
    Name: ha-nlp-invalid-fragments
    NLP sending invalid fragments in failover link:
        This counter is incremented and the packet is dropped when NLP tries to send a
    fragmented packet with invalid size through failover link.
    Recommendations:
       None
    Syslogs:
       None
       _____
    Name: ha-nlp-lu-link-not-ready
    Failover link is not ready for processing NLP packets:
        This counter is incremented and the packet is dropped when NLP tries to send or receive
    a packet however failover link lu status is down.
    Recommendations:
       None
    Syslogs:
       None
    _____
    Name: ha-nlp-send-ha-msg-err
    Send NLP packet over HA failover link failed:
        This counter is incremented and the packet is dropped when NLP failed to send packet
    through failover link.
    Recommendations:
       Check the show counter result to get more information about the failure.
    Syslogs:
       None
    _____
플로우 삭제 이유
     _____
    Name: tunnel-torn-down
    Tunnel has been torn down:
       This counter will increment when the appliance receives a packet associated with an
    established flow whose IPSec security association is in the process of being deleted.
    Recommendation:
       This is a normal condition when the IPSec tunnel is torn down for any reason.
```

Syslogs: None Name: no-ipv6-ipsec IPSec over IPv6 unsupported: This counter will increment when the appliance receives an IPSec ESP packet, IPSec NAT-T ESP packet or an IPSec over UDP ESP packet encapsulated in an IP version 6 header. The appliance does not currently support any IPSec sessions encapsulated in IP version 6. Recommendation: None Syslogs: None _____ Name: tunnel-pending Tunnel being brought up or torn down: This counter will increment when the appliance receives a packet matching an entry in the security policy database (i.e. crypto map) but the security association is in the process of being negotiated; its not complete yet. This counter will also increment when the appliance receives a packet matching an entry in the security policy database but the security association has been or is in the process of being deleted. The difference between this indication and the 'Tunnel has been torn down' indication is that the 'Tunnel has been torn down' indication is for established flows. Recommendation: This is a normal condition when the IPSec tunnel is in the process of being negotiated or deleted. Syslogs: None _____ Name: need-ike Need to start IKE negotiation: This counter will increment when the appliance receives a packet which requires encryption but has no established IPSec security association. This is generally a normal condition for LAN-to-LAN IPSec configurations. This indication will cause the appliance to begin ISAKMP negotiations with the destination peer. Recommendation: If you have configured IPSec LAN-to-LAN on your appliance, this indication is normal and does not indicate a problem. However, if this counter increments rapidly it may indicate a crypto configuration error or network error preventing the ISAKMP negotiation from completing. Verify that you can communicate with the destination peer and verify your crypto configuration via the 'show running-config' command. Syslogs:

Syslogs: None

```
_____
Name: vpn-handle-error
VPN handle error:
   This counter is incremented when the appliance is unable to create a VPN handle because
the VPN handle already exists.
Recommendation:
   It is possible to see this counter increment as part of normal operation. However, if
the counter is rapidly incrementing and there is a major malfunction of vpn-based
applications, then this may be caused by a software defect. Use the following commands to
gather more information about this counter and contact the Cisco TAC to investigate the
issue further.
   capture <name> type asp-drop vpn-handle-error
   show asp table classify crypto
   show asp table vpn-context detail
Syslogs:
   None
  _____
Name: vpn-handle-not-found
VPN handle not found:
   This counter is incremented when a datagram hits an encrypt, or decrypt operation, and
no VPN handle is found for the flow the datagram is on.
Recommendation:
   It is possible to see this counter increment as part of normal operation. However, if
the counter is rapidly incrementing and there is a major malfunction of vpn-based
applications, then this may be caused by a software defect. Use the following commands to
gather more information about this counter and contact the Cisco TAC to investigate the
issue further.
   capture <name> type asp-drop vpn-handle-not-found
   show asp table classify crypto
   show asp table vpn-context detail
Syslogs:
   None
  _____
Name: ipsec-spoof-detect
IPSec spoof packet detected:
   This counter will increment when the appliance receives a packet which should have been
encrypted but was not. The packet matched the inner header security policy check of a
configured and established IPSec connection on the appliance but was received unencrypted.
This is a security issue.
Recommendation:
   Analyze your network traffic to determine the source of the spoofed IPSec traffic.
Svslogs:
   402117
  _____
```

Name: ipsec-detunnel-fail IPsec detunnel processing failed: This counter will increment when a clear text flow fails IPSec tunnel flow processing. Recommendation: Use the following command to look at more specific packet drops. show asp drop Syslogs: None _____ Name: svc-spoof-detect SVC spoof packet detected: This counter will increment when the security appliance receives a packet which should have been encrypted but was not. The packet matched the inner header security policy check of a configured and established SVC connection on the security appliance but was received unencrypted. This is a security issue. Recommendation: Analyze your network traffic to determine the source of the spoofed SVC traffic. Syslogs: None _____ Name: svc-failover An SVC socket connection is being disconnected on the standby unit: This counter is incremented for each new SVC socket connection that is disconnected when the active unit is transitioning into standby state as part of a failover transition. Recommendation: None. This is part of a normal cleanup of a SVC connection when the current device is transitioning from active to standby. Existing SVC connections on the device are no longer valid and need to be removed. Syslogs: None. _____ Name: svc-replacement-conn SVC replacement connection established: This counter is incremented when an SVC connection is replaced by a new connection. Recommendation: None. This may indicate that users are having difficulty maintaining connections to the ASA. Users should evaluate the quality of their home network and Internet connection. Syslog: 722032 _____ Name: ipsec-selector-failure IPSec VPN inner policy selector mismatch detected:

This counter is incremented when an IPSec packet is received with an inner IP header that does not match the configured policy for the tunnel. Recommendation: Verify that the crypto ACLs for the tunnel are correct and that all acceptable packets are included in the tunnel identity. Verify that the box is not under attack if this message is repeatedly seen. Syslogs: 402116 _____ Name: vpn-context-expired Expired VPN context: This counter will increment when the security appliance receives a packet that requires encryption or decryption, and the ASP VPN context required to perform the operation is no longer valid. Recommendation: This indicates that a software error should be reported to the Cisco TAC. Syslogs: None _____ Name: vpn-overlap-conflict VPN Network Overlap Conflict: When a packet is decrypted the inner packet is examined against the crypto map configuration. If the packet matches a different crypto map entry than the one it was received on it will be dropped and this counter will increment. A common cause for this is two crypto map entries containing similar/overlapping address spaces. Recommendation: Check your VPN configuration for overlapping networks. Verify the order of your crypto maps and use of 'deny' rules in ACLs. Syslogs: None _____ Name: vpn-lock-error IPSec locking error: This counter is incremented when VPN flow cannot be created due to an internal locking error. Recommendation: This condition should never be encountered during normal operation and may indicate a software problem with the appliance. Contact the Cisco Technical Assistance Center (TAC) if this error occurs. Syslogs: None. _____ Name: vpn-reclassify_failed

The flow could not be reclassified according to existing VPN policies: When VPN policies change, flows that no longer match those policies are freed as packets arrive for those flows. Recommendations: This counter is informational and the behavior expected. Syslogs: No new syslogs accompany this event. _____ Name: vpn-missing-decrypt The flow could not be created because its decryption policy was not available: A VPN flow creation was attempted before its decryption policy was fully initialized. This is a transient condition and will be resolved once the decryption policy completes its installation. Recommendations: It is possible to see this counter increment as part of normal operation. However, if the counter is rapidly incrementing and there is a traffic disruption, then this may be caused by a misconfiguration or a software defect. Use the following commands to gather more information about this counter and contact the Cisco TAC to investigate the issue further. capture <name> type asp-drop vpn-missing-decrypt show asp table classify show asp drop show tech-support Syslogs: No new syslogs accompany this event. _____ Name: vpn-bad-decrypt-rule The flow could not be created because a wrong decryption policy was hit: This is a transient condition when clustering is enabled and vpn-mode is set to distributed. Recommendations: It is possible to see this counter increment as part of normal operation. However, if the counter is rapidly incrementing and there is a traffic disruption, then this may be caused by a misconfiguration or a software defect. Use the following commands to gather more information about this counter and contact the Cisco TAC to investigate the issue further. show asp drop show tech-support Syslogs: No new syslogs accompany this event. Name: vpn-invalid-encryption The flow is dropped because encryption flag was not set: Recommendations:

사용 지침

It is possible to see this counter increment as part of normal operation. However, if the counter is rapidly incrementing and there is a traffic disruption, then this may be caused by a misconfiguration or a software defect. Use the following commands to gather more information about this counter and contact the Cisco TAC to investigate the issue further. show asp drop show tech-support Syslogs: No new syslogs accompany this event. _____ _____ Name: out-of-memory No memory to complete flow: This counter is incremented when the appliance is unable to create a flow because of insufficient memory. Recommendation: Verify that the box is not under attack by checking the current connections. Also verify if the configured timeout values are too large resulting in idle flows residing in memory longer. Check the free memory available by issuing 'show memory'. If free memory is low, issue the command 'show processes memory' to determine which processes are utilizing most of the memory. Syslogs: None Name: parent-closed Parent flow is closed: When the parent flow of a subordinating flow is closed, the subordinating flow is also closed. For example, an FTP data flow (subordinating flow) will be closed with this specific reason when its control flow (parent flow) is terminated. This reason is also given when a secondary flow (pin-hole) is closed by its controlling application. For example, when the BYE messaged is received, the SIP inspection engine (controlling application) will close the corresponding SIP RTP flows (secondary flow). Recommendation: None. Syslogs: None. _____ Name: closed-by-inspection Flow closed by inspection: This reason is given for closing a flow due to an error detected during application inspection. For example, if an error is detected during inspecting an H323 message, the corresponding H323 flow is closed with this reason. Recommendation: None. Syslogs: None.

_____ Name: fo-primary-closed Failover primary closed: Standby unit received a flow delete message from the active unit and terminated the flow. Recommendation: If the appliance is running stateful failover, then this counter should increment for every replicated connection that is torn down on the standby appliance. Syslogs: 302014, 302016, 302018 _____ Name: fo-standby Flow closed by failover standby: If a through-the-box packet arrives at an appliance or context is in a Standby state, and a flow is created, the packet is dropped and the flow removed. This counter will increment each time a flow is removed in this manner. Recommendation: This counter should never be incrementing on the Active appliance or context. However, it is normal to see it increment on the Standby appliance or context. Syslogs: 302014, 302016, 302018 _____ Name: fo_rep_err Standby flow replication error: Standby unit failed to replicate a flow. Recommendation: If appliance is processing VPN traffic, then this counter could be constantly increasing on the standby unit because of the flow could be replicated before the IKE SA info. No action is required in this case. If the appliance is not processing VPN traffic, then this indicate a software detect, turn on the debug: "debug fover fail" on the standby unit, collect the debug output, and report the problem to Cisco TAC. Syslogs: 302014, 302016, 302018 _____ Name: loopback Flow is a loopback: This reason is given for closing a flow due to the following conditions: 1) when U-turn traffic is present on the flow, and, 2) 'same-security-traffic permit intra-interface' is not configured. Recommendation: To allow U-turn traffic on an interface, configure the interface with 'same-security-traffic permit intra-interface'. Syslogs: None.

```
_____
Name: acl-drop
Flow is denied by access rule:
    This counter is incremented when a drop rule is hit by the packet and flow creation is
denied. This rule could be a default rule created when the box comes up, when various
features are turned on or off, when an acl is applied to interface or any other feature etc.
Apart from default rule drops, a flow could be denied because of:
    1) ACL configured on an interface
    2) ACL configured for AAA and AAA denied the user
    3) Thru-box traffic arriving at management-only ifc
    4) Unencrypted traffic arriving on a ipsec-enabled interface
    5) Implicity deny 'ip any any' at the end of an ACL
Recommendation:
   Observe if one of syslogs related to packet drop are fired. Flow drop results in the
corresponding packet-drop that would fire requisite syslog.
Syslogs:
   None.
    _____
Name: acl-drop-reclassify
Flow is denied by access rule after reclassification:
    This counter is incremented when a drop rule is hit by the packet during
reclassification of ACL rules.
Recommendation:
   Observe if one of syslogs related to packet drop are fired. Flow drop results in the
corresponding packet-drop that would fire requisite syslog.
Syslogs:
   None.
 _____
Name: pinhole-timeout
Pinhole timeout:
   This counter is incremented to report that the appliance opened a secondary flow, but no
packets passed through this flow within the timeout interval, and hence it was removed. An
example of a secondary flow is the FTP data channel that is created after successful
negotiation on the FTP control channel.
Recommendation:
   No action required.
Syslogs:
   302014, 302016
               _____
Name: host-removed
Host is removed:
   Flow removed in response to "clear local-host" command.
Recommendation:
   This is an information counter.
```

```
Syslogs:
   302014, 302016, 302018, 302021, 305010, 305012, 609002
               Name: xlate-removed
Xlate Clear:
   Flow removed in response to "clear xlate" or "clear local-host" command.
Recommendation:
   This is an information counter.
Syslogs:
   302014, 302016, 302018, 302021, 305010, 305012, 609002
  _____
Name: connection-timeout
Connection timeout:
   This counter is incremented when a flow is closed because of the expiration of it's
inactivity timer.
Recommendation:
   No action required.
Syslogs:
   302014, 302016, 302018, 302021
_____
Name: conn-limit-exceeded
Connection limit exceeded:
   This reason is given for closing a flow when the connection limit has been exceeded.
The connection limit is configured via the 'set connection conn-max' action command.
Recommendation:
   None.
Syslogs:
   201011
_____
Name: tcp-fins
TCP FINs:
   This reason is given for closing a TCP flow when TCP FIN packets are received.
Recommendations:
   This counter will increment for each TCP connection that is terminated normally with
FINs.
Syslogs:
   302014
 _____
Name: syn-timeout
```

```
SYN Timeout:
```

This reason is given for closing a TCP flow due to expiry of embryonic timer. Recommendations: If these are valid session which take longer to establish a connection increase the embryonic timeout. Syslogs: 302014 _____ Name: fin-timeout FIN Timeout: This reason is given for closing a TCP flow due to expiry of half-closed timer. Recommendations: If these are valid session which take longer to close a TCP flow, increase the half-closed timeout. Syslogs: 302014 _____ Name: reset-in TCP Reset-I: This reason is given for closing an outbound flow (from a low-security interface to a same- or high-security interface) when a TCP reset is received on the flow. Recommendation: None. Syslogs: 302014 _____ Name: reset-out TCP Reset-0: This reason is given for closing an inbound flow (from a high-security interface to low-security interface) when a TCP reset is received on the flow. Recommendation: None. Syslogs: 302014 _____ Name: reset-appliance TCP Reset-APPLIANCE: This reason is given for closing a flow when a TCP reset is generated by appliance. Recommendation: None. Syslogs: 302014

```
_____
Name: recurse
Close recursive flow:
   A flow was recursively freed. This reason applies to pair flows, multicast slave
flows, and syslog flows to prevent syslogs being issued for each of these subordinate
flows.
Recommendation:
   No action required.
Syslogs:
   None
  _____
Name: tcp-intecept-no-response
TCP intercept, no response from server:
   SYN retransmission timeout after trying three times, once every second. Server
unreachable, tearing down connection.
Recommendation:
   Check if the server is reachable from the ASA.
Syslogs:
   None
                         Name: tcp-intercept-unexpected
TCP intercept unexpected state:
   Logic error in TCP intercept module, this should never happen.
Recommendation:
   Indicates memory corruption or some other logic error in the TCP intercept module.
Syslogs:
   None
  _____
Name: tcpnorm-rexmit-bad
TCP bad retransmission:
   This reason is given for closing a TCP flow when check-retranmission feature is enabled
and the TCP endpoint sent a retranmission with different data from the original packet.
Recommendations:
   The TCP endpoint maybe attacking by sending different data in TCP retransmits. Please
use the packet capture feature to learn more about the origin of the packet.
Syslogs:
   302014
 _____
Name: tcpnorm-win-variation
TCP unexpected window size variation:
```

```
This reason is given for closing a TCP flow when window size advertized by TCP endpoint
is drastically changed without accepting that much data.
Recommendations:
   In order to allow this connection, use the window-variation configuration under tcp-map.
Syslogs:
   302014
  _____
Name: tcpnorm-invalid-syn
TCP invalid SYN:
   This reason is given for closing a TCP flow when the SYN packet is invalid.
Recommendations:
   SYN packet could be invalid for number of reasons, like invalid checksum, invalid TCP
header. Please use the packet capture feature to understand why the SYN packet is invalid.
If you would like to allow these connection use tcp-map configurations to bypass checks.
Syslogs:
   302014
_____
Name: sctp-init-0-tag
SCTP INIT contains 0 value initiate tag:
   This counter is incremented and the flow is dropped when sctp INIT chunk contains 0
value initiate tag.
Recommendations:
   None
Syslogs:
   None
_____
Name: sctp-initack-0-tag
SCTP INIT ACK contains 0 value initiate tag:
   This counter is incremented and the flow is dropped when sctp INIT ACK chunk contains 0
value initiate tag.
Recommendations:
   None
Syslogs:
   None
    _____
Name: sctp-chunk-init-0-stream-cnt
SCTP INIT contains 0 value inbound/outbound stream count:
   This counter is incremented and the packet is dropped when sctp INIT chunk contains 0
value inbound/outbound stream count.
```

Recommendations: None

```
Syslogs:
   None
         -----
Name: sctp-chunk-init-timeout
SCTP INIT timed out (not receiving INIT ACK):
   This counter is incremented and the flow is dropped when sctp INIT chunk timeout count
reaches limit.
Recommendations:
   None
Syslogs:
   None
 _____
Name: sctp-chunk-cookie-timeout
SCTP cookie timed out:
   This counter is incremented and the flow is dropped when sctp cookie state (after
received INIT ACK or COOKIE ECHO) timeout count reaches limit.
Recommendations:
   None
Syslogs:
   None
_____
Name: sctp-endpoint-abort
SCTP received ABORT from endpoint:
   This counter is incremented and the flow is dropped when sctp ABORT chunk is received.
Recommendations:
   None
Syslogs:
   None
_____
Name: sctp-chunk-init-ack-0-stream-cnt
SCTP INIT ACK contains 0 value inbound/outbound stream count:
   This counter is incremented and the packet is dropped when sctp INIT ACK chunk contains
0 value inbound/outbound stream count.
Recommendations:
   None
Syslogs:
   None
 _____
Name: sctp-shutdown-timeout
SCTP SHUTDOWN timed out (not receiving SHUTDOWN ACK):
```

This counter is incremented and the flow is dropped when sctp SHUTDOWN timeout count reaches limit. Recommendations: None Syslogs: None _____ Name: mcast-intrf-removed Multicast interface removed: An output interface has been removed from the multicast entry. - OR -All output interfaces have been removed from the multicast entry. Recommendation: No action required. - OR -Verify that there are no longer any receivers for this group. Syslogs: None _____ Name: mcast-entry-removed Multicast entry removed: A packet has arrived that matches a multicast flow, but the multicast service is no longer enabled, or was re-enabled after the flow was built. - OR -The multicast entry has been deleted so the flow is being cleaned up, but the packet will be reinjected into the data path. Recommendation: Reenable multicast if it is disabled. - OR -No action required. Syslogs: None _____ Name: tcp-intercept-kill Flow terminated by TCP Intercept: TCP intercept would teardown a connection if this is the first SYN, a connection is created for the SYN, and TCP intercept replied with a SYN cookie, or after seeing a valid ACK from client, when TCP intercept sends a SYN to server, server replies with a RST. Recommendation: TCP intercept normally does not create a connection for first SYN, except when there are

TCP intercept normally does not create a connection for first SYN, except when there are nailed rules or the packet comes over a VPN tunnel or the next hop gateway address to reach the client is not resolved. So for the first SYN this indicates that a connection got created. When TCP intercept receives a RST from server, its likely the corresponding port is closed on the server.

Syslogs:

None

```
_____
Name: audit-failure
Audit failure:
   A flow was freed after matching an "ip audit" signature that had reset as the
associated action.
Recommendation:
   If removing the flow is not the desired outcome of matching this signature, then remove
the reset action from the "ip audit" command.
Syslogs:
   None
  _____
Name: cxsc-request
Flow terminated by CXSC:
   This reason is given for terminating a flow as requested by CXSC module.
Recommendations:
   Check syslogs and alerts on CXSC module.
Syslogs:
   429002
     _____
Name: cxsc-fail-close
CXSC fail-close:
   This reason is given for terminating a flow since CXSC card is down and fail-close
option was used with CXSC action.
Recommendations:
   Check and bring up CXSC card
Syslogs:
   429001
 _____
Name: cxsc-bad-hdl
Flow terminated by ASA due to bad handle from CX
   Since the handle received from CX is invalid, dropping flow.
Recommendations:
   Check syslogs and alerts on CXSC module.
Syslogs:
   421004
_____
Name: reset-by-cx
Flow reset by CXSC:
   This reason is given for terminating a TCP flow as requested by the CXSC module.
```

```
Recommendations:
   Check syslogs and alerts on CXSC module.
Syslogs:
   429003
_____
Name: sfr-request
Flow terminated by SFR:
   This reason is given for terminating a flow as requested by SFR module.
Recommendations:
   Check syslogs and alerts on SFR module.
Syslogs:
   434002
_____
Name: sfr-fail-close
SFR fail-close:
  This reason is given for terminating a flow since SFR card is down and fail-close option
was used with SFR action.
Recommendations:
   Check and bring up SFR card
Syslogs:
   434001
_____
Name: sfr-bad-hdl
Flow terminated by ASA due to bad handle from SFR
   Since the handle received from SFR is invalid, dropping flow.
Recommendations:
   Check syslogs and alerts on SFR module.
Syslogs:
   421004
_____
Name: reset-by-sfr
Flow reset by SFR:
   This reason is given for terminating a TCP flow as requested by the SFR module.
Recommendations:
   Check syslogs and alerts on SFR module.
Syslogs:
   434003
_____
Name: snort-flow-drop
Flow terminated by SNORT:
```

```
This reason is given for terminating a flow as requested by SNORT module.
Recommendations:
   Review Snort policies for any such rule denying the flow.
Syslogs:
   None.
_____
Name: ips-request
Flow terminated by IPS:
   This reason is given for terminating a flow as requested by IPS module.
Recommendations:
   Check syslogs and alerts on IPS module.
Syslogs:
   420002
_____
Name: ips-fail-close
IPS fail-close:
   This reason is given for terminating a flow since IPS card is down and fail-close
option was used with IPS inspection.
Recommendations:
   Check and bring up IPS card
Syslogs:
   420001
Name: ips-license-disabled-fail-close
IPS module license disabled:
   This reason is given for terminating a flow when the IPS module license is disabled and
the fail-close option was used in IPS inspection.
Recommendations:
   Please apply an activiation key that has the IPS Module License enabled.
Syslogs:
   420008
_____
Name: reinject-punt
Flow terminated by punt action:
   This counter is incremented when a packet is punted to the exception-path for
processing by one of the enhanced services such as inspect, aaa etc and the servicing
routine, having detected a violation in the traffic flowing on the flow, requests that the
flow be dropped. The flow is immediately dropped.
Recommendation:
   Please watch for syslogs fired by servicing routine for more information. Flow drop
terminates the corresponding connection.
```

Syslogs: None. Name: shunned Flow shunned: This counter will increment when a packet is received which has a source IP address that matches a host in the shun database. When a shun command is applied, it will be incremented for each existing flow that matches the shun command. Recommendation: No action required. Syslogs: 401004 _____ Name: host-limit host-limit _____ Name: nat-failed NAT failed: Failed to create an xlate to translate an IP or transport header. Recommendation: If NAT is not desired, disable "nat-control". Otherwise, use the "static", "nat" or "global" command to configure NAT policy for the dropped flow. For dynamic NAT, ensure that each "nat" command is paired with at least one "global" command. Use "show nat" and "debug pix process" to verify NAT rules. Syslogs: 305005, 305006, 305009, 305010, 305011, 305012 _____ Name: nat-rpf-failed NAT reverse path failed: Rejected attempt to connect to a translated host using the translated host's real address. Recommendation: When not on the same interface as the host undergoing NAT, use the mapped address instead of the real address to connect to the host. Also, enable the appropriate inspect command if the application embeds IP address. Syslogs: 305005 _____ Name: inspect-fail Inspection failure: This counter will increment when the appliance fails to enable protocol inspection carried out by the NP for the connection. The cause could be memory allocation failure, or for ICMP error message, the appliance not being able to find any established connection

related to the frame embedded in the ICMP error message.

Recommendation: Check system memory usage. For ICMP error message, if the cause is an attack, you can deny the host using the ACLs. Syslogs: 313004 for ICMP error. _____ Name: no-inspect Failed to allocate inspection: This counter will increment when the security appliance fails to allocate a run-time inspection data structure upon connection creation. The connection will be dropped. Recommendation: This error condition is caused when the security appliance runs out of system memory. Please check the current available free memory by executing the "show memory" command. Syslogs: None _____ Name: reset-by-ips Flow reset by IPS: This reason is given for terminating a TCP flow as requested by IPS module. Recommendations: Check syslogs and alerts on IPS module. Syslogs: 420003 _____ Name: flow-reclaimed Non-tcp/udp flow reclaimed for new request: This counter is incremented when a reclaimable flow is removed to make room for a new flow. This occurs only when the number of flows through the appliance equals the maximum number permitted by the software imposed limit, and a new flow request is received. When this occurs, if the number of reclaimable flows exceeds the number of VPN tunnels permitted by the appliance, then the oldest reclaimable flow is removed to make room for the new flow. All flows except the following are deemed to be reclaimable: 1. TCP, UDP, GRE and Failover flows 2. ICMP flows if ICMP stateful inspection is enabled 3. ESP flows to the appliance Recommendation: No action is required if this counter is incrementing slowly. If this counter is incrementing rapidly, it could mean that the appliance is under attack and the appliance is spending more time reclaiming and rebuilding flows. Syslogs 302021 _____

Name: non_tcp_syn

non-syn TCP: This reason is given for terminating a TCP flow when the first packet is not a SYN packet. Recommendations: None Syslogs: None _____ Name: rm-xlate-limit RM xlate limit reached: This counter is incremented when the maximum number of xlates for a context or the system has been reached and a new connection is attempted. Recommendation: The device administrator can use the commands 'show resource usage' and 'show resource usage system' to view context and system resource limits and 'Denied' counts and adjust resource limits if desired. Syslogs: 321001 _____ Name: rm-host-limit RM host limit reached: This counter is incremented when the maximum number of hosts for a context or the system has been reached and a new connection is attempted. Recommendation: The device administrator can use the commands 'show resource usage' and 'show resource usage system' to view context and system resource limits and 'Denied' counts and adjust resource limits if desired. Syslogs: 321001 _____ Name: rm-inspect-rate-limit RM inspect rate limit reached: This counter is incremented when the maximum inspection rate for a context or the system has been reached and a new connection is attempted. Recommendation: The device administrator can use the commands 'show resource usage' and 'show resource usage system' to view context and system resource limits and 'Denied' counts and adjust resource limits if desired. Syslogs: 321002 _____ Name: tcpmod-connect-clash

A TCP connect socket clashes with an existing listen connection. This is an internal system error. Contact TAC. _____ Name: ssm-app-request Flow terminated by service module: This counter only applies to the ASA 5500 series adaptive security appliance. It is incremented when the application running on the SSM requests the security appliance to terminate a connection. Recommendation: You can obtain more information by querying the incident report or system messages generated by the SSM itself. Please consult the documentation that comes with comes with the SSM for instructions. Syslogs: None. _____ Name: ssm-app-fail Service module failed: This counter only applies to the ASA 5500 series adaptive security appliance. It is incremented when a connection that is being inspected by the SSM is terminated because the SSM has failed. Recommendation: The card manager process running in the security appliance control plane issued system messages and CLI warning to inform you of the failure. Please consult the documentation that comes with the SSM to trouble shoot the SSM failure. Contact Cisco Technical Assistance Center (TAC) if needed. Syslog: 421001. _____ Name: ssm-app-incompetent Service module incompetent: This counter only applies to the ASA 5500 series adaptive security appliance. It is incremented when a connection is supposed to be inspected by the SSM, but the SSM is not able to inspect it. This counter is reserved for future use. It should always be 0 in the current release. Recommendation: None. Syslog: None. _____ Name: ssl-bad-record-detect SSL bad record detected: This counter is incremented for each unknown SSL record type received from the remote peer. Any unknown record type received from the peer is treated as a fatal error and the SSL connections that encounter this error must be terminated. Recommendation:

It is not normal to see this counter increment at any time. If this counter is incremented, it usually means that the SSL protocol state is out of sync with the client software. The most likely cause of this problem is a software defect in the client software. Contact the Cisco TAC with the client software or web browser version and provide a network trace of the SSL data exchange to troubleshoot this problem.

Syslogs:

None.

_____ Name: ssl-handshake-failed SSL handshake failed: This counter is incremented when the TCP connection is dropped because the SSL handshake failed. Recommendation: This is to indicate that the TCP connection is dropped because the SSL handshake failed. If the problem cannot be resolved based on the syslog information generated by the handshake failure condition, please include the related syslog information when contacting the Cisco TAC. Syslogs: 725006. 725014. _____ Name: dtls-hello-close DTLS hello close: This counter is incremented when the UDP connection is dropped after the DTLS client hello message processing is finished. This does not indicatean error. Recommendation: None. Syslogs: None. _____ Name: ssl-malloc-error SSL malloc error: This counter is incremented for each malloc failure that occurs in the SSL lib. This is to indicate that SSL encountered a low memory condition where it can't allocate a memory buffer or packet block. Recommendation: Check the security appliance memory and packet block condition and contact Cisco the TAC with this memory information. Syslogs: None. _____ Name: ctm-crypto-request-error CTM crypto request error: This counter is incremented each time CTM cannot accept our crypto request. This

usually means the crypto hardware request queue is full.

Recommendation: Issue the show crypto protocol statistics ssl command and contact the Cisco TAC with this information. Syslogs: None. _____ Name: ssl-record-decrypt-error SSL record decryption failed: This counter is incremented when a decryption error occurs during SSL data receive. This usually means that there is a bug in the SSL code of the ASA or peer, or an attacker may be modifying the data stream. The SSL connection has been closed. Recommendation: Investigate the SSL data streams to and from your ASA. If there is no attacker, then this indicates a software error that should be reported to the Cisco TAC. Syslogs: None. _____ Name: np-socket-conn-not-accepted A new socket connection was not accepted: This counter is incremented for each new socket connection that is not accepted by the security appliance. Recommendation: It is possible to see this counter increment as part of normal operation. However, if the counter is rapidly incrementing and there is a major malfunction of socket-based applications, then this may be caused by a software defect. Contact the Cisco TAC to investigate the issue further. Syslog: None. _____ Name: np-socket-failure NP socket failure: This is a general counter for critical socket processing errors. Recommendation: This indicates that a software error should be reported to the Cisco TAC. Syslog: None. _____ Name: np-socket-relay-failure NP socket relay failure: This is a general counter for socket relay processing errors. Recommendation:

It is possible to see this counter increment as part of normal operation. However, if the counter is rapidly incrementing and there is a major malfunction of socket-based applications, then this may be caused by a software defect. Contact the Cisco TAC to investigate the issue further. Syslog: None. _____ Name: np-socket-data-move-failure NP socket data movement failure: This counter is incremented for socket data movement errors. Recommendation: This indicates that a software error should be reported to the Cisco TAC. Syslog: None. _____ Name: np-socket-new-conn-failure NP socket new connection failure: This counter is incremented for new socket connection failures. Recommendation: This indicates that a software error should be reported to the Cisco TAC. Syslog: None. _____ Name: np-socket-transport-closed NP socket transport closed: This counter is incremented when the transport attached to the socket is abruptly closed. Recommendation: It is possible to see this counter increment as part of normal operation. However, if the counter is rapidly incrementing and there is a major malfunction of socket-based applications, then this may be caused by a software defect. Contact the Cisco TAC to investigate the issue further. Syslog: None. _____ Name: np-socket-block-conv-failure NP socket block conversion failure: This counter is incremented for socket block conversion failures. Recommendation: This indicates that a software error should be reported to the Cisco TAC. Syslog: None.

```
Name: ssl-received-close-alert
SSL received close alert:
   This counter is incremented each time the security appliance receives a close alert
from the remote client. This indicates that the client has notified us they are going to
drop the connection. It is part of the normal disconnect process.
Recommendation:
   None.
Syslog:
   725007.
    _____
Name: children-limit.
Max per-flow children limit exceeded:
   The number of children flows associated with one parent flow exceeds the internal limit
of 200.
Recommendation:
   This message indicates either a misbehaving application or an active attempt to exhaust
the firewall memory. Use "set connection per-client-max" command to further fine tune the
limit. For FTP, additionally enable the "strict" option in "inspect ftp".
Syslogs:
   210005
             _____
Name: tracer-flow
packet-tracer traced flow drop:
   This counter is internally used by packet-tracer for flow freed once tracing is
complete.
Recommendation:
   None.
Syslog:
   None.
_____
Name: sp-looping-address
looping-address:
   This counter is incremented when the source and destination addresses in a flow are the
same. SIP flows where address privacy is enabled are excluded, as it is normal for those
flows to have the same source and destination address.
 Recommendation:
   There are two possible conditions when this counter will increment. One is when the
appliance receives a packet with the source address equal to the destination. This
```

appliance receives a packet with the source address equal to the destination. This represents a type of DoS attack. The second is when the NAT configuration of the appliance NATs a source address to equal that of the destination. One should examine syslog message 106017 to determine what IP address is causing the counter to increment, then enable packet captures to capture the offending packet, and perform additional analysis.

Syslogs:

106017 Name: no-adjacency No valid adjacency: This counter will increment when the security appliance receives a packet on an existing flow that no longer has a valid output adjacency. This can occur if the nexthop is no longer reachable or if a routing change has occurred typically in a dynamic routing environment. Recommendation: No action required. Syslogs: None _____ Name: np-midpath-service-failure NP midpath service failure: This is a general counter for critical midpath service errors. Recommendation: This indicates that a software error should be reported to the Cisco TAC. Syslog: None. _____ Name: np-midpath-cp-event-failure NP midpath CP event failure: This is counter for critical midpath events that could not be sent to the CP. Recommendation: This indicates that a software error should be reported to the Cisco TAC. Syslog: None. _____ Name: np-context-removed NP virtual context removed: This counter is incremented when the virtual context with which the flow is going to be associated has been removed. This could happen in multi-core environment when one CPU core is in the process of destroying the virtual context, and another CPU core tries to create a flow in the context. Recommendation: No action is required. Syslog: None. _____

```
Name: fover-idle-timeout
```

```
Flow removed from standby unit due to idle timeout:
   A flow is considered idle if standby unit no longer receives periodical
                                                                   update from
active which is supposed to happen to at fixed internal when flow is alive. This
counter is incremented when such flow is removed
                                         from standby unit.
Recommendation:
   This counter is informational.
Syslogs:
   None.
_____
Name: dynamic-filter
Flow matched dynamic-filter blacklist:
   A flow matched a dynamic-filter blacklist or greylist entry with a
                                                             threat-level
higher than the threat-level threshold configured to drop
                                                    traffic.
Recommendation:
   Use the internal IP address to trace the infected host. Take remidiation
                                                                    steps to
remove the infection.
Syslogs:
   None.
 _____
Name: asa-teardown
ASA requested flow to be torndown:
   ASA requested the flow to be removed
Recommendation:
   None.
Syslogs:
   None.
_____
Name: punt-limit
No. of segments queued to an inspector reached limit:
   For this flow, no. of packets queued to the inspector reached the limit. Thus,
terminating the flow
Recommendation:
   None.
Syslogs:
   None.
_____
Name: pdts-rule-meta-failed
PDTS rule-meta allocation failed:
   This counter is incremented when rule-meta allocation failed,
                                                         thus terminating the
flow
Recommendation:
   None.
```

```
Syslogs:
```

None.

```
_____
Name: tcp-full-proxy-required
Full TCP proxy is required, but not available in monitor-only mode:
   This flow requires full TCP proxy, but this feature is not available in
                                                                   monitor-only
mode.
Recommendation:
   None.
Syslogs:
   None.
_____
Name: route-change
Flow terminated due to route change:
   When the system adds a lower cost (better metric) route, incoming packets
                                                                      that match
the new route will cause their existing connection to be torn down after the user
configured timeout (floating-conn) value.
                                      Subsequent packets will rebuild the connection
                      the better metric.
out the interface with
Recommendation:
   To prevent the addition of lower cost routes from affecting active
                                                                flows, the
'floating-conn' configuration timeout value can be set to 0:0:0.
Syslogs:
   None.
  _____
Name: svc-selector-failure
SVC VPN inner policy selector mismatch detected:
   This counter is incremented when an SVC packet is received with an inner IP header that
does not match the policy for the tunnel.
Recommendation:
   None. This packet will be discarded automatically.
Syslogs:
   None.
_____
Name: vPath-license-failure
Flow terminated due to vPath license failure:
   The flow is dropped due to licensing failure for ASA 1000V.
Recommendation:
   Check Nexus 1000V and verify that there are sufficient ASA 1000V licenses
                                                                       installed
to support all ASA 1000V virtual machines in use. Use "show license" to check the
available licenses for ASA 1000V and use "show license usage" to check the status of
them.
Syslogs:
   4450002.
```

```
_____
Name: svc-conn-timer-cb-fail
SVC connection timer callback failure:
   This condition occurs when there is a failed attempt to place an event
                                                               on the async
lock queue for that connection.
Recommendation:
   None.
Syslogs:
   None.
_____
Name: svc-udp-conn-timer-cb-fail
SVC UDP connection timer callback failure:
   This condition occurs when there is a failed attempt to place an event on the async
lock queue for that connection.
Recommendation:
   None.
Syslogs:
   None.
 _____
Name: nat64/46-conversion-fail
IPv6 to IPv4 or vice-versa conversion failure:
   This condition occurs when there is a failure in coversion of
                                                       IPv6 traffic to IPv4
or vice-versa.
Recommendation:
   None.
Syslogs:
   None.
_____
Name: cluster-cflow-clu-closed
Cluster flow with CLU closed on owner:
   Director/backup unit received a cluster flow clu delete message from the owner
                                                                     unit
and terminated the flow.
Recommendation:
   This counter should increment for every replicated clu that is torn down on
                                                                    the
owner unit.
Syslogs:
   None.
     _____
Name: cluster-cflow-stale-clu-closed
Cluster flow with CLU removed due to stale owner:
   A cluster flow was removed because it has stale owner info. Stale info can happen due
to missing CLU_DELETE as normally this is not a reliable msg.
```

```
Recommendation:
   This counter is informational.
Syslogs:
   None.
  _____
Name: cluster-cflow-clu-timeout
Cluster flow with CLU removed from due to idle timeout:
   A cluster flow with CLU is considered idle if director/backup unit no longer
receives periodical update from owner which is supposed to happen at
                                                            fixed interval when
flow is alive.
Recommendation:
   This counter is informational.
Syslogs:
   None.
_____
Name: cluster-redirect
Flow matched a cluster redirect classify rule:
   A stub forwarding flow will thereafter forward packets to the cluster unit that owns
the flow.
Recommendations:
   This counter is informational and the behavior expected. The packet was forwarded to
the owner over the Cluster Control Link.
Syslogs:
   None.
  _____
Name: cluster-drop-on-slave
Flow matched a cluster drop-on-slave classify rule:
   This is for cases that the packets from L3 subnet are seen by all units and only
master unit need to process them.
Recommendations:
   This counter is informational and the behavior expected. The packet is processed by
master.
Syslogs:
   None.
_____
Name: cluster-director-change
The flow director changed due to a cluster join event:
   A new unit joined the cluster and is now the director for the
                                                          flow. The old
director/backup has removed it's flow and the flow owner will update the new director.
Recommendations:
   This counter is informational and the behavior expected.
Syslogs:
```

None.

```
_____
Name: cluster-mcast-owner-change
The multicast flow owner changed due to a cluster join or leave event:
    This flow gets created on a new owner unit.
Recommendations:
   This counter is informational and the behavior expected.
Syslogs:
   None.
_____
Name: cluster-convert-to-dirbak
Forwarding or redirect flow converted to director or backup flow:
   Forwarding or redirect flow is removed, so that director or
                                                       backup flow can be
created.
Recommendations:
   This counter is informational and the behavior expected.
Syslogs:
   None.
 _____
Name: cluster-mobility-owner-removed
Flow mobility has old owner removed:
   Flow mobility moved this flow to another unit. This old owner
                                                        will be removed.
Recommendations:
   This counter is informational and the behavior expected.
Syslogs:
   None.
Name: cluster-mobility-fwder-removed
Flow mobility has old fwder removed:
   Flow mobility moved this flow to another unit. This old fwder will be removed
because it's turning into a backup.
Recommendations:
   This counter is informational and the behavior expected.
Syslogs:
   None.
     _____
                             ------
Name: cluster-mobility-backup-removed
Flow mobility has backup removed:
   Flow mobility moved this flow to another unit. This backup
                                                     will be removed because
new owner and director are on difference nodes.
```

```
Recommendations:
   This counter is informational and the behavior expected.
Syslogs:
   None.
  _____
Name: cluster-mobility-owner-2-dir
Flow mobility has old owner/director changed to director only:
   Flow mobility moved this flow to another unit. This unit used
                                                          to be both owner and
director, now will host director flow
                                   only.
Recommendations:
   This counter is informational and the behavior expected.
Syslogs:
   None.
_____
Name: inspect-scansafe-server-not-reachable
Scansafe server is not configured or the cloud is down:
   Either the scansafe server IP is not specified in the scansafe
                                                            general options or
the scansafe server is not reachable.
Recommendations:
   This counter is informational and the behavior expected.
Syslogs:
   None.
_____
Name: cluster-owner-2-dir
Another owner overrides me, and I will become a director later:
   Another unit owns the flow, and asks me to delete my flow in order to create a
director flow in its place later.
Recommendations:
   This counter is informational and the behavior is expected.
Syslogs:
   None.
_____
Name: cluster-owner-2-fwd
Another owner overrides me, and I will become a forwarder later:
   Another unit owns the flow, and asks me to delete my flow in order
                                                              to create a
forwarder flow in its place later.
Recommendations:
   This counter is informational and the behavior is expected.
Syslogs:
```

```
None.
```

_____ Name: cluster-director-closed Flow removed due to director flow closed: Owner unit received a cluster flow clu delete message from the director unit and terminated the flow. Recommendation: This counter should increment for every replicated clu that is torn down on the director unit. Syslogs: None. _____ Name: cluster-pinhole-master-change Master only pinhole flow removed at bulk sync due to master change: Master only pinhole flow is removed during bulk sync becase cluster master has changed. Recommendation: This counter is informational and the behavior expected. Syslogs: 302014 _____ Name: cluster-parent-owner-left Flow removed at bulk sync becasue parent flow is gone: Flow is removed during bulk sync becasue the parent flow's owner has left the cluster. Recommendation: This counter is informational and the behavior expected. Syslogs: 302014 _____ Name: cluster-ctp-punt-channel-missing Flow removed at bulk sync becasue CTP punt channel is missing: Flow is removed during bulk sync because CTP punt channel is missing in cluster restored flow. Recommendation: The cluster master may have just left the cluster. And there might be packet drops on the Cluster Control Link. Syslogs: 302014 _____ Name: invalid-vxlan-segment-id Invalid VXLAN segment-id: This counter is incremented when the security appliance sees an invalid VXLAN segment-id attached to a flow.

```
Recommendation:
   No.
Syslogs:
   None.
_____
Name: no-valid-nve-ifc
No valid NVE interface:
   This counter is incremented when the security appliance fails to identify the NVE
interface of a VNI interface for a flow.
Recommendation:
   Verify that the nve is configured for all interfaces.
Syslogs:
   None.
_____
Name: invalid-peer-nve
Invalid peer NVE:
   This counter is incremented when the security appliance fails to get IP and MAC address
of a peer NVE for a flow.
Recommendation:
   Verify that peer nve is configured or learned for the nve.
Syslogs:
   None.
_____
Name: vxlan-encap-error
Fail to encap with VXLAN:
   This counter is incremented when the security appliance fails to encapsulate a packet
with VXLAN for a flow.
Recommendation:
   No.
Syslogs:
   None.
Name: no-route-to-peer-nve
No route to peer NVE:
   This counter is incremented when the security appliance fails to locate next hop to peer
NVE.
Recommendation:
   Verify peer NVE is reachable via source-interface.
Syslogs:
   None.
```

_____ Name: vxlan-invalid-vni-mcast-ip Invalid Multicast IP on VNI interface: This counter is incremented when the security appliance fails to get the multicast group IP from the VNI interface. Recommendation: Verify that in the absence of a configured peer NVE, the VNI interface has a valid multicast group IP configured on it. Syslogs: None. _____ Name: vxlan-missing-peer-vtep-ip Peer VTEP IP not found: This counter is incremented when the security appliance fails to find the peer VTEP IP for an inner destnation IP for VXLAN encapsulation. Recommendation: Verify that in show arp vtep-mapping/show mac-address-table vtep-mapping/show ipv6 neighbor vtep-mapping, the VTEP IP is present for the desired remote inner host. Syslogs: None. _____ Name: ifc-zn-chg Interface experienced a zone change: This reason is given for terminating a flow because the parent interface has joined or left a zone. Recommendations: No action required. Syslogs: 302014, 302016, 302018, 302021, 302304 _____ Name: clean_for_vpn_stub Clean up for creation of a new VPN stub: This reason is given for tearing down a conflicting connection in preparation for a new vpn stub connection. Recommendations: None. Syslogs: None. _____ Name: cluster-cflow-isakmp-owner-closed Cluster flow closed on ISAKMP owner:

Director/backup unit received an isakmp redirected packet from a forwarding unit and terminated the flow. Recommendation: This counter should increment for every cflow torn down by isakmp redirected packet on the isakmp owner unit. Syslogs: None. _____ Name: vpn-context-association-failure VPN context association failure: This counter is increased whenever we fail to associate the VPN context with a cluster flow. Recommendation: None. Syslogs: None. _____ Name: ike-pkt-with-bad-spi Flow removed for IKE packet with corrupted or expired SPI: This counter is incremented and the flow is dropped when the IKE packet in this flow gets dropped due to corrupted or expired SPI. Recommendations: Check the syslog to get more information about the origin of the packet. This situation can be normal and transient. If the drops persist, call TAC to investigate further. Syslogs: 753001 _____ Name: cluster-dup-owner-to-dir Duplicated owner flow detected, and I will become a director later: Another unit owns the flow, so need to delete my flow in order to create a director flow in its place later. Recommendations: This counter is informational and the behavior is expected. Syslogs: None. _____ Name: cluster-dir-removed-dup-owner Duplicated owner flow removed by director: Another unit owns the flow, so director deleted the flow on this unit. Recommendations: This counter is informational and the behavior is expected.

```
Syslogs:
    None.
Name: cluster-removed-stale-stub
Stale stub flow removed by owner:
    This is a stale stub flow, so owner deleted the flow on this unit.
Recommendations:
    This counter is informational and the behavior is expected.
Syslogs:
    None.
```

예

아래에는 카운터를 지운 마지막 시간을 나타내는 타임스탬프가 포함된 show asp drop 명령의 샘플 출력이 나와 있습니다.

ciscoasa# **show asp drop**

Frame drop:	
Flow is denied by configured rule (acl-drop)	3
Dst MAC L2 Lookup Failed (dst-12_lookup-fail)	4110
L2 Src/Dst same LAN port (12_same-lan-port)	760
Expired flow (flow-expired)	1

Last clearing: Never

Flow drop:	
Flow is denied by access rule (acl-drop)	24
NAT failed (nat-failed)	28739
NAT reverse path failed (nat-rpf-failed)	22266
Inspection failure (inspect-fail)	19433

Last clearing: 17:02:12 UTC Jan 17 2012 by enable_15

관련 명령

Command(명령)	설명
capture	패킷을 캡처합니다(ASP 삭제 코드에 따라 패킷을 캡처하는 옵션 포함).
clear asp drop	가속화된 보안 경로의 삭제 통계를 지웁니다.
show conn	연결에 대한 정보를 표시합니다.