

# show asp drop コマンドの使用法

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## show asp drop

高速セキュリティパスでドロップされたパケットまたは接続をデバッグするには、特権 EXEC モードで **show asp drop** コマンドを使用します。

**show asp drop** [ **flow** [ *flow\_drop\_reason* ] | **frame** [ *frame\_drop\_reason* ] ]

### 構文の説明

**flow** *flow\_drop\_reason* (任意) ドロップされたフロー (接続) を表示します。  
*flow\_drop\_reason* 引数を使用して、特定の理由を指定できます。考えられるフローのドロップ理由のリストを表示するには **?** を使用します。

**frame** *frame\_drop\_reason* (任意) ドロップされたパケットを表示します。  
*frame\_drop\_reason* 引数を使用して、特定の理由を指定できます。考えられるフレームのドロップ理由のリストを表示するには **?** を使用します。

### コマンドデフォルト

デフォルトの動作や値はありません。

### コマンドモード

次の表に、コマンドを入力できるモードを示します。

コマンドモード	ファイアウォールモード		セキュリティコンテキスト		
	ルーテッド	トランスペアレント	シングル	マルチ	
				コンテキスト	システム
特権 EXEC	• 対応	• 対応	• 対応	• 対応	• 対応

### コマンド履歴

リリース	変更内容
7.0(1)	このコマンドが追加されました。
7.0(8)/7.2(4)/8.0(4)	カウンタが最後にクリアされた時間を示すタイムスタンプが出力に含まれます ( <b>clear asp drop</b> コマンドを参照)。また、説明の横にドロップ理由のキーワードが表示されるため、関連キーワードを使用して簡単に <b>capture asp-drop</b> コマンドを使用できます。

**使用上のガイドライン** **show asp drop** コマンドは、高速セキュリティパスによってドロップされたパケットまたは接続を表示します。この情報は、問題のトラブルシューティングに役立つ場合があります。高速セキュリティパスの詳細については、一般的な操作の設定ガイドを参照してください。この情報はデバッグの目的でのみ使用されます。また、情報の出力は変更される可能性があります。このコマンドを使用したシステム デバッグについて支援が必要な場合は、Cisco TAC にお問い合わせください。

次の項では、各ドロップ理由の名前、説明、および推奨事項を示します。

- [フレームのドロップ理由 \(2 ページ\)](#)
- [フローのドロップ理由 \(116 ページ\)](#)

## フレームのドロップ理由

```
-----
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: ipsec-tun-need-swap
Needed to swap to another IPSEC tunnel:
    This counter will increment when the appliance receives a packet associated with an
    IPSec connection that went down and needs to swapped to another IPSec connection.

Recommendation:
    This is a normal condition when an IPSec tunnel goes down and the packet can be moved
    to another IPSec Tunnel. If this happens frequently, investigate IPSec tunnel failures.

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-session-frag-fail

SVC Module failed to send frag fail:

This counter will increment when the security appliance cannot generate ICMP error message.

## 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-invalid-src-addr  
SVC Module found invalid inner SRC address:  
    This counter will increment when the security appliance is finds an invalid inner  
    src address 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:  
    Use packet capture of type asp-drop to determine the direction of the packet. Most  
    often this indicates that the client is unable to accept more data. On rare occasion,  
    the counter can indicate the appliance cannot handle the inbound traffic if the packet
```



direction is towards the appliance.

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

-----  
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 receives 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 obtain 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: invalid-adjacency

## No valid adjacency:

This counter is incremented when the security appliance has tried to obtain 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: no-v4-adjacency

## No valid adjacency:

This counter is incremented when the security appliance has tried to obtain 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: no-v6-adjacency

## No valid adjacency:

This counter is incremented when the security appliance has tried to obtain 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: no-paired-ifc

## No valid adjacency:

This counter is incremented when the security appliance has tried to obtain 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.

Recommendation:
    Verify that a route exists for the destination address obtained from the generated
    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-geneve-segment-id
Invalid Geneve segment-id:
    This counter is incremented when the security appliance decapsulates a Geneve packet
    which has an invalid segment-id.

Recommendation:
    No.

Syslogs:
    860001.

-----
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 the generated 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: geneve-encap-error  
Fail to encap with Geneve:  
This counter is incremented when the security appliance fails to encapsulate a packet with Geneve.

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:  
No.

Syslogs:  
778003.

-----  
Name: vxlan-invalid-header  
Invalid VXLAN header format:  
This counter is incremented 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 incremented 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 incremented 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 incremented 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 destination 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: vxlan-ccl-inner-dip-not-found
Peer CCL inner IP not found:
    This counter is incremented when the security appliance fails to find Peer's CCL
    inner destination IP.

Recommendation:
    No.

Syslogs:
    None.

-----

Name: invalid-geneve-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:
    No.

Syslogs:
    778003.

-----

Name: geneve-invalid-header
Invalid Geneve header format:
    This counter is incremented when the security appliance receives a UDP packet with
    correct Geneve destination port number but failed to decode the Geneve header.

Recommendation:
    No.

Syslogs:
    860004.

-----

Name: geneve-invalid-header-thru-traffic
Invalid Geneve header format for through-the-box traffic:
    This counter is incremented when the security appliance receives a through-the-box
    UDP packet with correct Geneve destination port number but failed to decode the Geneve
    header.

Recommendation:
    No.

Syslogs:
    860008.
```

```
-----  
Name: geneve-invalid-udp-checksum  
Invalid GENEVE header format:  
    This counter is incremented when the security appliance receives a Geneve packet  
with incorrect checksum value in UDP header.
```

```
Recommendation:  
    No.
```

```
Syslogs:  
    860006.
```

```
-----  
Name: geneve-invalid-nve-peer  
Geneve packet from an invalid NVE peer:  
    This counter is incremented when the security appliance receives a Geneve packet  
from an NVE peer that is not configured.
```

```
Recommendation:  
    No.
```

```
Syslogs:  
    860007.
```

```
-----  
Name: geneve-invalid-vni-mcast-ip  
Invalid Multicast IP on Geneve 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: geneve-missing-peer-vtep-ip  
Geneve Peer VTEP IP not found:  
    This counter is incremented when the security appliance fails to find the peer VTEP  
IP for an inner destination IP for Geneve 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.

Syslogs:  
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.

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: unsupported-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 to help isolate the cause.

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 receives 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 receives
    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

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 increment.

Recommendations:

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:  
    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: permit-validate  
Permit validation failed:  
This reason is given for dropping a packet during the initial connection establishment when the registered validation for this listener fails.

Recommendation:  
If this is incrementing rapidly, check syslogs to determine which host is failing validation on the given listener.

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:
    This drop can happen in a scenarios like when there are    redundant paths between
    client and server or due to some    congestion in the network which could cause INIT
    ACK to be received    after the connection created for INIT is torn down. If this
    error occurs in large numbers, please use packet capture    feature to help isolate the
    issue.

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-shutdown-complete-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-datagram-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 receives 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 ofStreams 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  
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 retransmission 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  
QoS 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-l2\_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 unsupported packets that are tried to punt on BVI interface.

Syslogs:  
None

-----  
Name: l2\_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: pmtu-reinject-fail  
Dispatch PMTU Reinject Fail:  
ICMP PMTU 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: flow-expired-drop

## 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: meta-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: connection-q-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: reinject-fail

## 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

## 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:

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 reachability 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.
```

```
Syslogs:  
    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:

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 message 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-request-ssl-decrypt  
SFR Module SSL decryption requested drop:  
    This counter is incremented and the packet is dropped as requested by SFR module SSL  
    decryption when the packet is decrypted.
```

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

```
Syslogs:  
    None
```

```
-----  
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 message 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:  
This event only happens when the system is in the transient state, such as the system is 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-down-no-app-info  
Drop the frame as the SNORT instance is down:  
This counter is incremented and the packet is dropped as the Snort module is down and unable to find app info or flow.

Recommendations:  
Review Snort statistics for the reason behind SNORT instance down.

Syslogs:  
None.

-----  
Name: snort-down-inline-flow  
Drop the frame as the SNORT instance is down:  
This counter is incremented and the packet is dropped as the Snort module is down and flow in either inline or passive.

Recommendations:  
Review Snort statistics for the reason behind SNORT instance down.

```
Syslogs:  
  None.
```

```
-----  
Name: snort-down-in-fp  
Drop the frame as the SNORT instance is down:  
  This counter is incremented and the packet is dropped as the Snort module is down  
and unable to handle in full proxy mode.
```

```
Recommendations:  
  Review Snort statistics for the reason behind SNORT instance down.
```

```
Syslogs:  
  None.
```

```
-----  
Name: snort-down-not-fp  
Drop the frame as the SNORT instance is down:  
  This counter is incremented and the packet is dropped as the Snort module is down  
and unable to handle when it is not in full proxy mode.
```

```
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: snort-busy-no-app-info  
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 find app info or flow.
```

```
Recommendations:  
  Review Snort statistics for the reason behind high load on SNORT instance.
```

```
Syslogs:  
  None.
```

```
-----  
Name: snort-busy-inline-flow  
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 flow in either inline or passive.
```

```
Recommendations:
```

Review Snort statistics for the reason behind high load on SNORT instance.

Syslogs:  
None.

-----  
Name: snort-busy-in-fp  
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 in full proxy mode.

Recommendations:  
Review Snort statistics for the reason behind high load on SNORT instance.

Syslogs:  
None.

-----  
Name: snort-busy-not-fp  
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 when it is not in full proxy mode.

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 activation key that has the IPS Module License enabled.

Syslogs:  
420008

-----  
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: l2_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
    other types of L2 traffic.

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

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: l2_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: punt_action
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
  other types of L2 traffic.

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

  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: 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-full-reassembly-failed
Fragment full reassembly failed:
  This counter is incremented when the appliance fails to allocate memory while
  reassembling a chain of fragmented packets into a single packet. All the fragment
  packets in the chain are dropped.

```

```

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 used was 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-handling-failed

Passenger flow processing error mishandling:

This counter is incremented when the security appliance receives a supported tunnel IP packet and a handling error is encountered during the passenger IP packet processing. The packet is dropped.

Recommendation:

No action required.

Syslogs:

None

-----  
Name: passenger-flow-invalid-encap-request

Passenger flow processing error invalid tunnel encap request:

This counter is incremented when the security appliance attempts to encapsulate an IP packet and an error is encountered because the requested tunnel encapsulation is invalid. The packet is dropped.

Recommendation:

No action required.

Syslogs:

None



```
-----  
Name: passenger-flow-malformed-packet  
Passenger flow processing error malformed tunnel encap:  
    This counter is incremented when the security appliance receives a supported tunnel  
    IP packet and an error is encountered because the tunnel encapsulation is malformed.The  
    packet is dropped.
```

```
Recommendation:  
    No action required.
```

```
Syslogs:  
    None
```

```
-----  
Name: passenger-flow-no-encap-info  
Passenger flow processing error missing tunnel encap info:  
    This counter is incremented when the security appliance attempts to encapsulate an  
    IP packet and an error is encountered because the necessary tunnel encapsulation  
    information is missing.The packet is dropped.
```

```
Recommendation:  
    No action required.
```

```
Syslogs:  
    None
```

```
-----  
Name: passenger-flow-unsupported-encap  
Passenger flow processing error unsupported tunnel encap:  
    This counter is incremented when the security appliance receives a unsupported tunnel  
    IP packet and an error is encountered because passenger flow processing bypass fails.The  
    packet is dropped.
```

```
Recommendation:  
    No action required.
```

```
Syslogs:  
    None
```

```
-----  
Name: passenger-flow-unsupported-payload  
Passenger flow processing error unsupported tunnel encap:  
    This counter is incremented when the security appliance receives a supported tunnel  
    IP packet and an error is encountered because the tunnel payload is unsupported and  
    passenger flow processing bypass fails.The packet is dropped.
```

```
Recommendation:  
    No action required.
```

```
Syslogs:  
    None
```

```
-----  
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

Dispatch 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 environment. The module that attempted to enqueue the packet may issue its 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: 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: 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 dispatched 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, because 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 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: 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: packet-infinite-looping
Infinite looping of packet:
    This counter is incremented and the packet is dropped when the packet attempts to
    queue to the loopback queue and its egress interface will trigger infinite looping.

```

```

Recommendations:
    Should never happen, possible wrong internal processing of packet.      The packet
    is entering an infinite loop in the interface.

```

```

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 dropped 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 is closed.

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 is closed.

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 license key is not configured. The
  packet is dropped and the connection is closed.

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:  
A flow cannot use the same physical interface for input and output on ASA 1000V.

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 conversion of IPv6 traffic to IPv4 or vice-versa.

Recommendation:  
Verify if the NAT64 or NAT46 policies are configured properly.

Syslogs:  
None.

-----  
Name: zta-src-translation-failure  
ZeroTrustAccess SRC NAT POOL exhaustion  
This counter is incremented and the packet is dropped when source translation

is configured for zero-trust traffic but pool is exhausted

Recommendation:

This may be due to insufficient IPs configured to translate source of the traffic destined to zero-trust applications. Consider adding more IPs to source translation pool

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 receive one. The packet is dropped.

Recommendation:

Verify that interface under consideration has proper CMD settings.

Syslogs:

None.

-----  
Name: cluster-not-supported

Cluster not supported:

Cluster not supported on this platform.

Recommendation:

Remove cluster config

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.
```

```
-----
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-data-node-ignored
Flow matched a cluster drop-on-data node classify rule:
  A multicast routing packet was received on a L3 cluster      interface when the unit
  was a data node. Only a control node      is permitted to process these packets.
Recommendation:
  This counter is informational and the behavior expected. The packet is      processed
  by control node.
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:
  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-xlate-pool-exhausted
NAT failed due to pool exhaustion:
  Failed to create an xlate to translate an IP or transport header due to pool
exhaustion.

Recommendation:
  Check "show nat pool" to see how the NAT pool is allocated for xlate creation.

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: 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: pat-port-block-state-mismatch
PAT port block state mismatch:
  There is a mismatch between port block state and configuration across cluster.
  This usually happens when a dynamic PAT rule is converted from "block-allocation"
  to regular or vice-versa with active translations.
Recommendation:
  Please execute the following recommended steps -
  1. Remove the current policy which resulted in this inconsistent state
  2. Clear the active translations established by the removed policy
  as "cluster exec clear xlate global <ip1[-ip2]>"
  3. Make sure there are no active translations using previous global IPs,
  through "cluster exec show xlate global <ip1[-ip2]>"
  4. Add back the policy with needed pat-pool options.
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-data-node-data-ifc-not-ready
Cluster data interface on data node unit is not ready (some data interfaces are in
different state from the control node). For a L3 interface that is not management-only,
before the data interface is ready the data node cannot own any connection on this
L3 interface. Packets must be owned by the data node are dropped. From the box
packets are also dropped before data node's data interface becomes ready. This drop
will not occur after data node's data interface is ready and the data node 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 control node failed to send NAT pool update to data node:
    Cluster control node has failed to send NAT pool update to data node. 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:
  This 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.

This occurs when TTL is 254 and it matches ANY of the following conditions:

1. Cluster is disabled.
2. The packet is not UDP.
3. Destination port is not 4193.

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.
```

```
-----
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: inspect-gtp
GTP inspection:
    This counter is incremented and the packet is dropped when GTP inspection found
    validation or internal errors, or performed policy drop.

Recommendations:
    Use this ASP drop reason to capture dropped GTP packets for trouble shooting.

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 OOO:

This counter is incremented and the packet is dropped when the TCP proxy receives 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: pdts-snort-info-missing
Flow missing pdts snort info:
    This counter is incremented and the packet is dropped when a flow to be inspected
    by the Snort is missing relevant info to capture Snort data.

Recommendations:
    None

Syslogs:
    None

-----
Name: tcp-proxy-fp2lw-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-existent 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-l2-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-l2-no-header-room
TCP proxy L2 no header room:
    This counter is incremented and the packet is dropped when there was no header room
    left for L2 header of a packet in Full Proxy mode.

Recommendations:
    None

Syslogs:
    None

-----

Name: tcp-proxy-l2-not-initialized
TCP proxy L2 not initialized:
    This counter is incremented and the packet is dropped when the L2 header of a packet
    was not initialized 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: tcp-proxy-probe-rst-injected
TCP proxy reset injected during probe:
    This counter is incremented and the packet is dropped when the RESET is injected by
    snort after server hello is done.

Recommendations:
    None

Syslogs:
    None
```

```
-----
Name: tcp-proxy-probe-tcp-probe-drop
TCP proxy probe reply:
    This counter is incremented and the packet is dropped when the reply to the probe
    message is received.

Recommendations:
    None

Syslogs:
    None

-----

Name: tcp-proxy-fp-flow-null-drop
TCP proxy full proxy NULL flow:
    This counter is incremented and the packet is dropped when the flow is NULL in full
    proxy mode.

Recommendations:
    None

Syslogs:
    None

-----

Name: tcp-proxy-probe-client-conn-collision
TCP proxy client connection matches probe tuple:
    This counter is incremented and the packet is dropped when packet from client matches
    the probe's tuple.

Recommendations:
    None

Syslogs:
    None

-----

Name: tcp-proxy-probe-blk-alloc-failed
TCP proxy block allocation during collision:
    This counter is incremented and the packet is dropped when the TCP proxy block
    allocation fails during collision.

Recommendations:
    None

Syslogs:
    None

-----

Name: tcp-proxy-probe-inject-pkt
TCP proxy inject probe packet:
    This counter is incremented and the packet is dropped when the TCP Proxy probe
    injected packet.

Recommendations:
    None

Syslogs:
```

None

```
-----
Name: tcp-proxy-probe-max-port-collision
TCP proxy maximum port collision:
    This counter is incremented and the packet is dropped when the TCP Proxy connection
    reaches maximum port collision.

Recommendations:
    None

Syslogs:
    None
```

```
-----
Name: tcp-proxy-probe-server-rst
Server initiated reset message to TCP proxy probe:
    This counter is incremented and the packet is dropped when the server initiated
    reset message is received to TCP Proxy probe.

Recommendations:
    None

Syslogs:
    None
```

```
-----
Name: tcp-proxy-probe-invalid-tcp
Invalid TCP while processing FIN on TCP proxy probe:
    This counter is incremented and the packet is dropped when the invalid TCP while
    processing FIN on TCP proxy probe.

Recommendations:
    None

Syslogs:
    None
```

```
-----
Name: tcp-proxy-probe-lock-fin-fail
Unable to lock TCP during FIN processing on TCP proxy probe:
    This counter is incremented and the packet is dropped when the TCP proxy probe is
    unable to lock TCP during FIN processing.

Recommendations:
    None

Syslogs:
    None
```

```
-----
Name: tcp-proxy-probe-server-fin
Server initiated FIN to TCP proxy probe:
    This counter is incremented and the packet is dropped when the server initiated fin
    is received to TCP proxy probe.

Recommendations:
    None
```

Syslogs:  
None

-----  
Name: tcp-proxy-probe-fin-ack-rcv  
ACK received in response to FIN-ACK for probe:  
This counter is incremented and the packet is dropped when the ACK is received in response to FIN-ACK to TCP proxy probe.

Recommendations:  
None

Syslogs:  
None

-----  
Name: quic-proxy-null-flow-drop  
QUIC Proxy NULL flow:  
This counter is incremented and the packet is dropped when QUIC proxy receives a packet for a non-existent flow.

Recommendations:  
None

Syslogs:  
None

-----  
Name: quic-proxy-only-ack-drop  
QUIC Proxy only Ack received:  
This counter is incremented and the packet is dropped when QUIC proxy receives a packet with only ACK in it.

Recommendations:  
None

Syslogs:  
None

-----  
Name: quic-proxy-destroy-tx-queue-drop  
QUIC Proxy destroy queue packet drop:  
This counter is incremented and the packet is dropped when tx queue is destroyed.

Recommendations:  
None

Syslogs:  
None

-----  
Name: quic-proxy-alloc-drop  
QUIC Proxy Allocation failure packet drop:  
This counter is incremented and the packet is dropped when memory allocation fails.

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: snort-blist-full-failopen

Snort flow block list limit reached:

This counter is incremented and the packet dropped when datapath buffers packets to avoid out-of-order on fail-open 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.
```

```
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: memif-non-ip-pkt  
MEMIF Non IP Packet:  
    This counter is incremented when any non IP packet is received on Memif for policy  
    lookup. Non IP packets are dropped in that case.
```

```
Recommendation:  
    Investigate why a NON IP packet is being sent by the sender for policy lookup.
```

```
Syslogs:  
    None.
```

```
-----  
Name: memif-non-policy-pkt  
MEMIF No Policy Packet:  
    This counter is incremented when any packet is received on Memif not tagged for  
    policy lookup. Such packets are dropped in that case.
```

```
Recommendation:  
    Investigate why a NON IP packet is being sent by the sender for policy lookup.
```

```
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.

Syslogs:  
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: daq-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.

Recommendations:  
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 the file 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: eve-handler
Blocked or blacklisted by the eve-handler:
  This counter is incremented and the packet is dropped as requested by the eve-handler.
```

## 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 this counter is incremented continuously, there could be a timing issue that caused the error. Contact Cisco Systems in such case.

Syslogs:

None.

-----  
Name: cluster-ccl-bad-unxlate-redirect-backup

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: unsupported\_8021q\_vlan\_tags

Unsupported 802.1Q VLAN tags:

This counter is incremented and the packet dropped when the security appliance receives a packet with too many layers of VLAN tags.

## Recommendations:

None

## Syslogs:

None

-----  
Name: fragment-reassembly-failed

Fragment reassembly failed:

This counter is incremented when the appliance fails to reassemble the fragmented IP packets. All the fragment packets in the chain are dropped.

## Recommendation:

Use 'show fragment' command to check all the failure counters.

## Syslogs:

None

-----  
Name: df-bit-set

Egress fragmentation needed, DF bit is set:

This counter is incremented when a packet requires egress fragmentation but the IP header DF bit is set. The packet is dropped and an ICMP error message is sent to the source.

## Recommendation:

Review the MTU configuration on egress interface.

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 owner 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 owner 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: snort-invalid-verdict

Received invalid verdict from snort:

This counter is incremented and the packet is dropped as verdict is invalid and cannot be acted up on.

## Recommendations:

Enable and review the module specific snort/pdts debug messages.

## Syslogs:

None.

-----  
Name: snort-blacklist

```
Packet is blacklisted by snort:
  This counter is incremented and the packet is dropped as flow is      blacklisted by
  snort.
Recommendations:
  Review Snort policies for any such rule denying the flow.
Syslogs:
  None.

-----

Name: snort-block
Packet is blocked as requested by snort:
  This counter is incremented and the packet is dropped as requested by snort.

Recommendations:
  Review Snort policies for any such rule denying the flow.
Syslogs:
  None.

-----

Name: snort-silent-drop
Packet is dropped silently as requested by snort:
  This counter is incremented and the packet is dropped as requested by snort.

Recommendations:
  Enable and review the module specific snort/pdts debug messages.

Syslogs:
  None.

-----

Name: snort-invalid-msg
Received an invalid message from snort:
  This counter is incremented when the packet framed by snort is incorrect and needs
  to be dropped.

Recommendations:
  Enable and review the module specific snort/pdts debug messages.

Syslogs:
  None.

-----

Name: snort-flow-mismatch
Received an different flow from snort:
  This counter is incremented as the flow received from snort is different and needs
  to be dropped.

Recommendations:
  Enable and review the module specific snort/pdts debug messages.

Syslogs:
  None.

-----

Name: snort-inject-data-pkt
Inject a new data packet after being received from from snort:
  This counter is incremented as a new data packet is injected and needs to be dropped.

Recommendations:
```



Enable and review the module specific snort/pdts debug messages.

Syslogs:  
None.

-----  
Name: snort-inject-data-pkt-l2-hdr  
Inject a new data L2 header packet after being received from from snort:  
This counter is incremented as a new L2 header data packet is injected and needs to be dropped.

Recommendations:  
Enable and review the module specific snort/pdts debug messages.

Syslogs:  
None.

-----  
Name: snort-replace-data-pkt  
Replace fixed length of data packet after being received from from snort:  
This counter is incremented as the fixed length of data is replaced and needs to be dropped.

Recommendations:  
Enable and review the module specific snort/pdts debug messages.

Syslogs:  
None.

-----  
Name: pdts-reassembly-err  
Error during reassembling of packets received from snort:  
This counter is incremented when there is an error encountered during reassembling of packets received from snort.

Recommendations:  
Enable and review the module specific snort/pdts debug messages.

Syslogs:  
None.

-----  
Name: failed-to-setup-pdts-flow-param  
Failure during setting up pdts flow paramters:  
This counter is incremented when there is failure in setting up pdts flow parameters.

Recommendations:  
Enable and review the module specific snort/pdts debug messages.

Syslogs:  
None.

-----  
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

-----  
Name: invalid-map-address-port

Invalid MAP address/port combination:

A packet with an address that matches a MAP (Mapping of Address and Port) domain Basic Mapping Rule has inconsistent encoding or the port number used is not within the allotted range.

Recommendation:  
Check MAP BR and CE configurations to ensure they are consistent within the same MAP domain. Note that this can also be caused by a rouge MAP CE that maliciously tries to use an unallotted port.

Syslogs:  
305019, 305020

-----  
Name: snort-detaim

Packet is detained as requested by snort:

This counter is incremented and the packet is detained as requested by snort.

Recommendation:  
This counter is informational and the behavior is expected.

Syslogs:  
None.

-----  
Name: vti-channel

Vti channel drop:

This counter is incremented when the security appliance has tried to forward the

packet through vti interface channel. The packet is dropped.

Recommendation:

Expected scenario, packets forwarded to vti interface will get dropped. cases like icmp, mcast etc.

Syslogs:

None.

-----  
Name: vtemplate-channel

Vtemplate channel drop:

This counter is incremented when the security appliance has tried to forward the packet through virtual template interface channel. The packet is dropped.

Recommendation:

Expected scenario, packets forwarded to virtual template interface will get dropped. cases like icmp, mcast etc.

Syslogs:

None.

-----  
Name: vaccess-channel

Vaccess channel drop:

This counter is incremented when the security appliance has tried to forward the packet through vaccess interface channel. The packet is dropped.

Recommendation:

Expected scenario, packets forwarded to vaccess interface will get dropped. cases like icmp, mcast etc.

Syslogs:

None.

-----  
Name: snp-ha-udp-lu-link-resource-alloc-failure

Failover dropped packet due to resource limitation:

This counter is incremented and the packet is dropped when block extension allocation fails due to a system resource limitation. The resource limit may be either:

- 1) system memory
- 2) packet block extension memory

Recommendation:

- Observe if free system memory is low.

Syslogs:

None

-----  
Name: snp-ha-udp-lu-link-unexpected-packet

Failover UDP trans received an unexpected packet:

This counter is incremented and the packet is dropped when NP HA UDP transport receives a packet destined for a different entity.

Recommendation:

Verify if the appliance is under attack. If there are no suspicious packets, 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: 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

-----

```

## フローのドロップ理由

```

-----

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:

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.
```

```
Syslogs:
  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:
```

```
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 message 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: ips-syn-timeout  
IPS SYN Timeout:  
    This reason is given for closing an optimised state track lite 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: ips-conn-timeout  
IPS CONN Timeout:  
    This reason is given for closing an optimised state track lite TCP flow due to expiry  
    of connection 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-O:  
    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 retransmission 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:  
This drop can happen in a scenarios like when the receiver of INIT chunk is not responding INIT ACK or there could be redundant path between client and server where INIT goes in one path and INIT ACK comes in another path. If this error occurs in large numbers, please use packet capture feature to help isolate the issue.

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 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 activation 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: 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 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-detected
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 indicate an 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 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 interval 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 remediation 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 out the interface with the better
metric.

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 conversion 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-nat-pool-removed  
Cluster flow is removed due to non-existent nat pool:  
Deleting a director/backup flow as it is referring to a NAT pool IP which is already  
removed.

Recommendation:  
This counter is informational.

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-data-node

Flow matched a cluster drop-on-data-node classify rule:

This is for cases that the packets from L3 subnet are seen by all units and only control node need to process them.

Recommendations:  
This counter is informational and the behavior expected. The packet is processed by control node.

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-fw

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-control-node-change

Control node only pinhole flow removed at bulk sync due to control node change:  
Control node only pinhole flow is removed during bulk sync because cluster control node has changed.

Recommendation:

This counter is informational and the behavior expected.

Syslogs:

302014

-----  
Name: cluster-parent-owner-left

Flow removed at bulk sync because parent flow is gone:

Flow is removed during bulk sync because 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 because CTP punt channel is missing:

Flow is removed during bulk sync because CTP punt channel is missing in cluster restored flow.

Recommendation:

The cluster control node 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: invalid-geneve-segment-id

Invalid Geneve segment-id:

This counter is incremented when the security appliance sees an invalid Geneve 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: geneve-encap-error
Fail to encap with Geneve:
    This counter is incremented when the security appliance fails to encapsulate a packet
with Geneve 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 destination 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: vxlan-ccl-inner-dip-not-found
Peer CCL inner IP not found:
    This counter is incremented when the security appliance fails to find peer's CCL
    inner destination IP.

Recommendation:
    No.

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: flow-missing-snort-info
Snort inspected flow missing pdts snort info:
    This reason is given for terminating a flow because the connection lacks snort related
    structure.

Recommendations:
    No action required.
```

```
Syslogs:
  None.

-----
Name: ifc-vrf-chg
Interface experienced a VRF change:
  This reason is given for terminating a flow because the parent interface has moved
  from one VRF to another..

Recommendations:
  No action required.

Syslogs:
  None.

-----
Name: ifc-addr-chg
Stale Ike flow with incorrect outbound ifc, cleared as part of Address change/removal
on tunnel src interface(vti):
This reason is given for terminating stale ike flow with incorrect outbound ifc, which
are created because tunnel src interface experienced ip/ipv6 address change/removal.

Recommendations:
  No action required.

Syslogs:
  None.

-----
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: max-retries-of-retransmission-exceeded

Maximum retries of retransmission exceeded:

The connection was torn down because the TCP packet exceeded maximum retries of retransmission, no reply from peer, tearing down connection.

Recommendation:

None.

Syslogs:

302014

-----  
Name: probe-max-retries-of-retransmission-exceeded

Probe maximum retries of retransmission exceeded:

The connection was torn down because the TCP packet exceeded maximum probe retries of retransmission, no reply from peer, tearing down connection.

Recommendation:

None.

Syslogs:

302014

-----  
Name: probe-max-retransmission-time-elapsed

Probe maximum retransmission time elapsed:

The connection was torn down because the maximum probing time for TCP packet has elapsed, no reply from peer, tearing down connection.

Recommendation:

None.

Syslogs:

302014

-----  
Name: probe-retransmit-invalid-timeout

Probe retransmit has invalid timeout:

The connection was torn down because flow moved to Full proxy, with invalid probe

timeout.

Recommendation:  
None.

Syslogs:  
302014

-----  
Name: probe-received-tcp-reset

Probe received RST:

The connection was torn down because the probe connection received RST from server,  
tearing down connection.

Recommendation:  
None.

Syslogs:  
302014

-----  
Name: probe-received-tcp-fin

Probe received FIN:

The connection was torn down because the probe connection received FIN from server,  
tearing down connection.

Recommendation:  
None.

Syslogs:  
302014

-----  
Name: probe-complete

Probe completed:

The connection was torn down because the probe connection is successful, tearing  
down connection.

Recommendation:  
None.

Syslogs:  
302014

-----  
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.

-----
Name: invalid-map-address-port
Invalid MAP address/port combination:
    A packet with an address that matches a MAP (Mapping of Address and Port) domain
    Basic Mapping Rule has inconsistent encoding or the port number used is not within the
    allotted range.

Recommendation:
    Check MAP BR and CE configurations to ensure they are consistent within the same MAP
    domain. Note that this can also be caused by a rouge MAP CE that maliciously tries to
    use an unallotted port.

Syslogs:
    305019, 305020

-----
Name: closed-by-block-reset
Flow is cleared on receiving block with reset:
    Snort sends a block with reset
Recommendation:
    This counter is informational and the behavior is expected.

Syslogs:
    None.

-----

```

## 例

次に、**show asp drop** コマンドの出力例を示します。タイムスタンプが、カウンタが最後にクリアされた時間を示しています。

```

ciscoasa# show asp drop

Frame drop:
Flow is denied by configured rule (acl-drop) 3
Dst MAC L2 Lookup Failed (dst-l2_lookup-fail) 4110
L2 Src/Dst same LAN port (l2_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
```

## 関連コマンド

コマンド	説明
<b>capture</b>	パケットをキャプチャします。asp drop コードに基づいてパケットをキャプチャするオプションも含まれています。
<b>clear asp drop</b>	高速セキュリティパスのドロップ統計情報をクリアします。
<b>show conn</b>	接続に関する情報を表示します。

---

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