

Fast Path Stats Counters

This appendix describes the Fast Path stats counters.

Table B-1 and Table B-2lists the Fast Path Stats supported by the WSG:

Table B-1 Global IPsec Fast Path Stats Supported by the WSG

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| Stats | Source | Description |
|----------------------------|-------------|---|
| ceipSecGlobalInDrops | NPU | The total number of packets dropped during receive processing by all current and previous IPsec Phase-2 Tunnels. This count does NOT include packets dropped due to Anti-Replay processing. |
| | | Possible causes of this error: |
| | | Incorrect IP version |
| | | • TTL field is zero |
| | | • ESP packet's Next Header field does not match the IP protocol of the encapsulated packet |
| ceipSecGlobalOutDrops | NPU | The total number of packets dropped during send processing by all current and previous IPsec Phase-2 Tunnels |
| | | Possible cause of this error: |
| | | • Fragmentation errors; E.g., packet larger than the WSG's configured pre-framentation MTU with DF bit set. |
| ceipSecGlobalInReplayDrops | Crypto chip | The total number of packets dropped during receive processing due to Anti-Replay processing by all current and previous IPsec Phase-2 Tunnels |
| | | Possible causes of this error: |
| | | • WSG recives an ESP packet with sequence number out of the replay window. |
| | | • Simulated by capturing and reply the ESP packet. |

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| Stats | Source | Description |
|---------------------------|-------------|--|
| ceipSecGlobalInAuthFails | Crypto chip | The total number of decrypt packet authentications which ended in failure by all current and previous IPsec Phase-2 Tunnels. |
| ceipSecGlobalOutAuthFails | NPU | The total number of encrypt packet authentications which ended in failure by all current and previous IPsec Phase-2 Tunnels. Possible cause of this error: Failures during encryption of the packets for any tunnel on the card. |

Table B-1 Global IPsec Fast Path Stats Supported by the WSG (continued)

| Table B-2 | IPsec Tunnel Fast Path Stats Supported by the WSG |
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|-----------|---|

| Stats | Source | Description |
|------------------------|--------|---|
| ceipSecTunInDropPkts | NPU | The total number of packets dropped during receive processing by this IPsec Phase-2 Tunnel. This count does NOT include packets dropped due to Anti-Replay processing. |
| | | Possible causes of this error: |
| | | Incorrect IP version |
| | | • TTL field is zero |
| | | • ESP packet's Next Header field does not match the IP protocol of the encapsulated packet |
| ceipSecTunOutDropPkts | NPU | The total number of packets dropped during send processing by this IPsec Phase-2 Tunnel. |
| | | Possible cause of this error: |
| | | • Fragmentation errors; E.g., packet larger than the WSG's configured pre-framentation MTU with DF bit set. |
| ceipSecTunInAuthFails | NPU | The total number of inbound authentication's which ended in failure by this IPsec Phase-2 Tunnel. |
| | | Possible cause of this error: |
| | | • Failures during decryption of the packet because of mis-comparison in the hash mac. |
| ceipSecTunOutAuthFails | NPU | The total number of outbound authentication's which ended in failure by this IPsec Phase-2 Tunnel. |

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| Source | Description |
|--------|---|
| NPU | The total number of inbound decryption's which ended in failure by this IPsec Phase-2 Tunnel. |
| | Possible causes of this error: |
| | • Tunnel decryption failed due to next header mismatch in the decrypted packet |
| | Bad IP version |
| | • Bad IP checksum |
| | • TTL expiry |
| NPU | The total number of outbound encryption's which ended in failure by this IPsec Phase-2 Tunnel. |
| | Possible cause of this error: |
| | • Badly formed IP packet getting encrypted; e.g. wrong checksum, bad IP version, etc. |
| NPU | The total number of packets dropped during receive processing due to Anti-Replay processing by this IPsec Phase-2 Tunnel. |
| | Possible cause of this error: |
| | • Receiving packets with ESP sequence numbers within the replay window. |
| | NPU |

Table B-2 IPsec Tunnel Fast Path Stats Supported by the WSG (continued)

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