



## Fast Path Stats Counters

This appendix describes the Fast Path stats counters.

[Table B-1](#) and [Table B-2](#) lists the Fast Path Stats supported by the WSG:

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

Stats	Source	Description
ceipSecGlobalInDrops	NPU	<p>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.</p> <p>Possible causes of this error:</p> <ul style="list-style-type: none"> <li>• Incorrect IP version</li> <li>• TTL field is zero</li> <li>• ESP packet's Next Header field does not match the IP protocol of the encapsulated packet</li> </ul>
ceipSecGlobalOutDrops	NPU	<p>The total number of packets dropped during send processing by all current and previous IPsec Phase-2 Tunnels</p> <p>Possible cause of this error:</p> <ul style="list-style-type: none"> <li>• Fragmentation errors; E.g., packet larger than the WSG's configured pre-fragmentation MTU with DF bit set.</li> </ul>
ceipSecGlobalInReplayDrops	Crypto chip	<p>The total number of packets dropped during receive processing due to Anti-Replay processing by all current and previous IPsec Phase-2 Tunnels</p> <p>Possible causes of this error:</p> <ul style="list-style-type: none"> <li>• WSG recives an ESP packet with sequence number out of the replay window.</li> <li>• Simulated by capturing and reply the ESP packet.</li> </ul>

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

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: <ul style="list-style-type: none"> <li>Failures during encryption of the packets for any tunnel on the card.</li> </ul>

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

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: <ul style="list-style-type: none"> <li>Incorrect IP version</li> <li>TTL field is zero</li> <li>ESP packet's Next Header field does not match the IP protocol of the encapsulated packet</li> </ul>
ceipSecTunOutDropPkts	NPU	The total number of packets dropped during send processing by this IPsec Phase-2 Tunnel. Possible cause of this error: <ul style="list-style-type: none"> <li>Fragmentation errors; E.g., packet larger than the WSG's configured pre-fragmentation MTU with DF bit set.</li> </ul>
ceipSecTunInAuthFails	NPU	The total number of inbound authentication's which ended in failure by this IPsec Phase-2 Tunnel. Possible cause of this error: <ul style="list-style-type: none"> <li>Failures during decryption of the packet because of mis-comparison in the hash mac.</li> </ul>
ceipSecTunOutAuthFails	NPU	The total number of outbound authentication's which ended in failure by this IPsec Phase-2 Tunnel.

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

<b>Stats</b>	<b>Source</b>	<b>Description</b>
ceipSecTunInDecryptFails	NPU	<p>The total number of inbound decryption's which ended in failure by this IPsec Phase-2 Tunnel.</p> <p>Possible causes of this error:</p> <ul style="list-style-type: none"> <li>• Tunnel decryption failed due to next header mismatch in the decrypted packet</li> <li>• Bad IP version</li> <li>• Bad IP checksum</li> <li>• TTL expiry</li> </ul>
ceipSecTunOutEncryptFails	NPU	<p>The total number of outbound encryption's which ended in failure by this IPsec Phase-2 Tunnel.</p> <p>Possible cause of this error:</p> <ul style="list-style-type: none"> <li>• Badly formed IP packet getting encrypted; e.g. wrong checksum, bad IP version, etc.</li> </ul>
ceipSecTunInReplayDropPkts	NPU	<p>The total number of packets dropped during receive processing due to Anti-Replay processing by this IPsec Phase-2 Tunnel.</p> <p>Possible cause of this error:</p> <ul style="list-style-type: none"> <li>• Receiving packets with ESP sequence numbers within the replay window.</li> </ul>

