



Troubleshooting IPsec

This chapter describes procedures used to troubleshoot IP security (IPsec) and Internet Key Exchange (IKE) encryption in the Cisco MDS 9000 Family Switch products. It includes the following sections:

- [Overview, page 11-1](#)
- [Troubleshooting IPsec Issues, page 11-1](#)

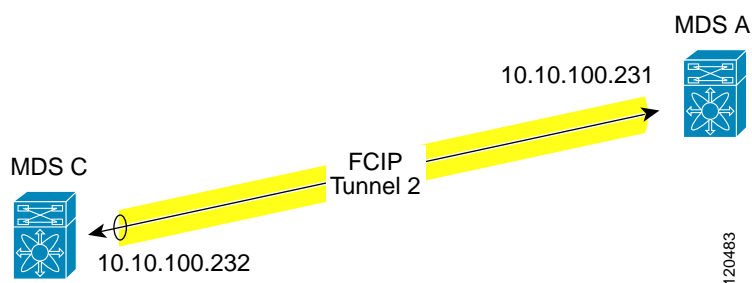
Overview

The IP security (IPsec) protocol is a framework of open standards that provides data confidentiality, data integrity, and data authentication between participating peers. It is developed by the Internet Engineering Task Force (IETF). IPsec provides security services at the IP layer, including protecting one or more data flows between a pair of hosts, between a pair of security gateways, or between a security gateway and a host. The overall IPsec implementation is per the latest version of RFC 2401. Cisco MDS SAN-OS IPsec implements RFC 2402 through RFC 2410.

Troubleshooting IPsec Issues

This section provides the procedures required to troubleshoot IKE and IPsec issues in an FCIP configuration. [Figure 11-1](#) shows a simple FCIP configuration where FCIP Tunnel 2 carries encrypted data between switches MDS A and MDS C.

Figure 11-1 Simple FCIP Configuration



This section includes the following topics:

- [Verifying IKE Configuration Compatibility, page 11-2](#)

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- [IPsec Compatibility for iSCSI, page 11-2](#)
- [Verifying IPsec Configuration Compatibility, page 11-3](#)
- [Verifying Security Associations, page 11-8](#)
- [Security Associations Do Not Re-Key, page 11-11](#)
- [Clearing Security Associations, page 11-11](#)
- [Debugging the IPsec Process, page 11-11](#)
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- [Obtaining Statistics from the IPsec Process, page 11-11](#)

Verifying IKE Configuration Compatibility

To verify the compatibility of the IKE configurations of MDS A and MDS C shown in [Figure 11-1](#), follow these steps:

-
- Step 1** Ensure that the preshared keys are identical on each switch. Issue the **show crypto ike domain ipsec key** command on both switches. Example command outputs for configuration shown in [Figure 11-1](#) follow:

```
MDSA# show crypto ike domain ipsec key
```

```
key ctct address 10.10.100.232
```

```
MDSC# show crypto ike domain ipsec key
```

```
key ctct address 10.10.100.231
```

- Step 2** Ensure that at least one matching policy that has the same encryption algorithm, hash algorithm, and Diffie-Hellman (DH) group, is configured on each switch. Issue the **show crypto ike domain ipsec policy** command on both switches. **Example command outputs** for the configuration shown in [Figure 11-1](#) follow:

```
MDSA# show crypto ike domain ipsec policy
```

```
Priority 1, auth pre-shared, lifetime 86300 secs, encryption 3des, hash md5, DH group 1
```

```
MDSC# show crypto ike domain ipsec policy
```

```
Priority 1, auth pre-shared, lifetime 86300 secs, encryption 3des, hash md5, DH group 1
```

IPsec Compatibility for iSCSI

[Table 11-1](#) lists the supported settings for encryption and authentication algorithms to be used in iSCSI configurations on the Windows 2000 and Linux platforms.

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Table 11-1 Encryption and Authentication Algorithms for iSCSI Configurations

Platform	IPsec
Microsoft iSCSI initiator, Microsoft IPsec implementation on Windows 2000 platform	3DES, SHA-1
Cisco iSCSI initiator, FreeSwan IPsec implementation on Linux platform	3DES, MD5

Verifying IPsec Configuration Compatibility

To verify the compatibility of the IPsec configurations of MDS A and MDS C shown in [Figure 11-1](#) follow these steps:

- Step 1** Issue the **show crypto map domain ipsec** command and the **show crypto transform-set domain ipsec** command. The following example command outputs display the fields discussed in [Step 2](#) through [Step 7](#).

```
MDSA# show crypto map domain ipsec
Crypto Map "cmap-01" 1 ipsec
→      Peer = 10.10.100.232
→      IP ACL = acl1
           permit ip 10.10.100.231 255.255.255.255 10.10.100.232 255.255.255.255
      Transform-sets: tfs-02,
→      Security Association Lifetime: 3000 gigabytes/120 seconds
→      PFS (Y/N): Y
→      PFS Group: group5
→ Interface using crypto map set cmap-01:
      GigabitEthernet7/1
```

```
MDSC# show crypto map domain ipsec
Crypto Map "cmap-01" 1 ipsec
→      Peer = 10.10.100.231
→      IP ACL = acl1
           permit ip 10.10.100.232 255.255.255.255 10.10.100.231 255.255.255.255
      Transform-sets: tfs-02,
→      Security Association Lifetime: 3000 gigabytes/120 seconds
→      PFS (Y/N): Y
→      PFS Group: group5
→ Interface using crypto map set cmap-01:
      GigabitEthernet1/2
```

```
MDSA# show crypto transform-set domain ipsec
Transform set:tfs-01 {esp-3des null}
      will negotiate {tunnel}
→ Transform set:tfs-02 {esp-3des esp-md5-hmac}
      will negotiate {tunnel}
Transform set:ipsec_default_transform_set {esp-aes 128 esp-sha1-hmac}
      will negotiate {tunnel}
```

```
MDSC# show crypto transform-set domain ipsec
Transform set:tfs-01 {esp-3des null}
      will negotiate {tunnel}
→ Transform set:tfs-02 {esp-3des esp-md5-hmac}
      will negotiate {tunnel}
Transform set:ipsec_default_transform_set {esp-aes 128 esp-sha1-hmac}
```

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```
will negotiate {tunnel}
```

- Step 2 Ensure the ACLs are compatible on the **show crypto map domain ipsec** command outputs of both switches.
- Step 3 Ensure the peer configuration is correct on the **show crypto map domain ipsec** command outputs of both switches.
- Step 4 Ensure the transform sets are compatible on the **show crypto transform-set domain ipsec** command outputs of both switches.
- Step 5 Ensure that the PFS settings on the **show crypto map domain ipsec** command outputs are configured the same on both switches.
- Step 6 Ensure the security association (SA) lifetime settings on the **show crypto map domain ipsec** command outputs are large enough to avoid excessive re-keys (the default settings ensure this).
- Step 7 Ensure that the crypto map set is applied to the correct interface on the **show crypto map domain ipsec** command outputs of both switches.

Verifying Security Policy Databases Compatibility

To verify the security policy databases (SPDs) are compatible on both switches, follow these steps:

- Step 1 Issue the **show crypto spd domain ipsec** command on both switches to display the SPD. The example command outputs follow:

```
MDSA# show crypto spd domain ipsec
Policy Database for interface:GigabitEthernet7/1, direction:Both
# 0:      deny  udp any port eq 500 any <-----Clear test policies for IKE
# 1:      deny  udp any any port eq 500 <-----Clear test policies for IKE
→ # 2:      permit ip 10.10.100.231 255.255.255.255 10.10.100.232 255.255.255.255
# 127:    deny  ip any any <-----Clear test policy for all other traffic
```

```
MDSC# show crypto spd domain ipsec
Policy Database for interface:GigabitEthernet1/2, direction:Both
# 0:      deny  udp any port eq 500 any
# 1:      deny  udp any any port eq 500
→ # 2:      permit ip 10.10.100.232 255.255.255.255 10.10.100.231 255.255.255.255
# 127:    deny  ip any any
```

- Step 2 Issue the **show crypto-accelerator interface gigabitethernet slot/port spd inbound** command on both switches to display SPD information from the crypto-accelerator.



Note

To issue commands with the **internal** keyword, you must have an account that is a member of the **network-admin** group.

The example command outputs follow:

```
MDSA# show ipsec internal crypto-accelerator interface gigabitethernet 7/1 spd inbound
Inbound Policy 0 :
Source IP Address :*
Destination IP Address :*
Source port :500, Destination port :* Protocol UDP
Physical port:0/0, Vlan_id:0/0
Action cleartext
```

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```
Inbound Policy 1 :
Source IP Address :*
Destination IP Address :*
Source port :*, Destination port :500 Protocol UDP
Physical port:0/0, Vlan_id:0/0
Action cleartext

Inbound Policy 2 :
Source IP Address :10.10.100.232/255.255.255.255
Destination IP Address :10.10.100.231/255.255.255.255
Source port :*, Destination port :* Protocol *
Physical port:0/1, Vlan_id:0/4095
Action ipsec

Inbound Policy 127 :
Source IP Address :*
Destination IP Address :*
Source port :*, Destination port :* Protocol *
Physical port:0/0, Vlan_id:0/0
Action cleartext
```

MDSC# **show ipsec internal crypto-accelerator interface gigabitethernet 1/2 spd inbound**

```
Inbound Policy 0 :
Source IP Address :*
Destination IP Address :*
Source port :500, Destination port :* Protocol UDP
Physical port:0/0, Vlan_id:0/0
Action cleartext

Inbound Policy 1 :
Source IP Address :*
Destination IP Address :*
Source port :*, Destination port :500 Protocol UDP
Physical port:0/0, Vlan_id:0/0
Action cleartext

Inbound Policy 2 :
Source IP Address :10.10.100.231/255.255.255.255
Destination IP Address :10.10.100.232/255.255.255.255
Source port :*, Destination port :* Protocol *
Physical port:1/1, Vlan_id:0/4095
Action ipsec

Inbound Policy 127 :
Source IP Address :*
Destination IP Address :*
Source port :*, Destination port :* Protocol *
Physical port:0/0, Vlan_id:0/0
Action cleartext
```

Verifying Interface Status

To verify the status of the interfaces, follow these steps:

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- Step 1** Issue the **show interface gigabitethernet** command on both switches. Verify that the interfaces are up and their internet addresses are correct. Issue the **no shutdown** command if necessary. The example command outputs follow:

```
MDSA# show interface gigabitethernet 7/1
→ GigabitEthernet7/1 is up
   Hardware is GigabitEthernet, address is 0005.3001.804e
→   Internet address is 10.10.100.231/24
      MTU 1500 bytes
      Port mode is IPS
      Speed is 1 Gbps
      Beacon is turned off
      Auto-Negotiation is turned on
      5 minutes input rate 7728 bits/sec, 966 bytes/sec, 8 frames/sec
      5 minutes output rate 7968 bits/sec, 996 bytes/sec, 8 frames/sec
      7175 packets input, 816924 bytes
         0 multicast frames, 0 compressed
         0 input errors, 0 frame, 0 overrun 0 fifo
      7285 packets output, 840018 bytes, 0 underruns
         0 output errors, 0 collisions, 0 fifo
         0 carrier errors
```

```
MDSB# show interface gigabitethernet 1/2
→ GigabitEthernet1/2 is up
   Hardware is GigabitEthernet, address is 0005.3001.7f0f
→   Internet address is 10.10.100.232/24
      MTU 1500 bytes
      Port mode is IPS
      Speed is 1 Gbps
      Beacon is turned off
      Auto-Negotiation is turned on
      5 minutes input rate 7528 bits/sec, 941 bytes/sec, 8 frames/sec
      5 minutes output rate 7288 bits/sec, 911 bytes/sec, 8 frames/sec
      7209 packets input, 835518 bytes
         0 multicast frames, 0 compressed
         0 input errors, 0 frame, 0 overrun 0 fifo
      7301 packets output, 827630 bytes, 0 underruns
         0 output errors, 0 collisions, 0 fifo
         0 carrier errors
```

- Step 2** Issue the **show interface fcip** command on both switches. Verify that each interface is using the correct profile, the peer internet addresses are configured correctly, and the FCIP tunnels are compatible. Issue the **no shutdown** command if necessary. The example command outputs follow:

```
MDSA# show interface fcip 1
fcip1 is trunking
   Hardware is GigabitEthernet
   Port WWN is 21:90:00:0d:ec:02:64:80
   Peer port WWN is 20:14:00:0d:ec:08:5f:c0
   Admin port mode is auto, trunk mode is on
   Port mode is TE
   Port vsan is 1
   Speed is 1 Gbps
   Trunk vsans (admin allowed and active) (1,100,200,302-303,999,3001-3060)
   Trunk vsans (up) (1)
   Trunk vsans (isolated) (100,200,302-303,999,3001-3060)
   Trunk vsans (initializing) ( )
→   Using Profile id 1 (interface GigabitEthernet7/1)
   Peer Information
→   Peer Internet address is 10.10.100.232 and port is 3225
→   FCIP tunnel is protected by IPsec
   Write acceleration mode is off
```

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```

Tape acceleration mode is off
Tape Accelerator flow control buffer size is automatic
IP Compression is disabled
Special Frame is disabled
Maximum number of TCP connections is 2
Time Stamp is disabled
QOS control code point is 0
QOS data code point is 0
B-port mode disabled
TCP Connection Information
  2 Active TCP connections
    Control connection:Local 10.10.100.231:3225, Remote 10.10.100.232:65492
    Data connection:Local 10.10.100.231:3225, Remote 10.10.100.232:65494
  20 Attempts for active connections, 0 close of connections
TCP Parameters
  Path MTU 1400 bytes
  Current retransmission timeout is 200 ms
  Round trip time:Smoothed 2 ms, Variance:3
  Advertized window:Current:118 KB, Maximum:14 KB, Scale:6
  Peer receive window:Current:128 KB, Maximum:128 KB, Scale:6
  Congestion window:Current:14 KB, Slow start threshold:204 KB
  Current Send Buffer Size:14 KB, Requested Send Buffer Size:0 KB
  CWM Burst Size:50 KB
5 minutes input rate 2960 bits/sec, 370 bytes/sec, 4 frames/sec
5 minutes output rate 3184 bits/sec, 398 bytes/sec, 4 frames/sec
3628 frames input, 340644 bytes
  3610 Class F frames input, 338396 bytes
  18 Class 2/3 frames input, 2248 bytes
  0 Reass frames
  0 Error frames timestamp error 0
3624 frames output, 359140 bytes
  3608 Class F frames output, 357332 bytes
  16 Class 2/3 frames output, 1808 bytes
  0 Error frames

MDSC# show interface fcip 1
fcip1 is trunking
Hardware is GigabitEthernet
Port WWN is 20:14:00:0d:ec:08:5f:c0
Peer port WWN is 21:90:00:0d:ec:02:64:80
Admin port mode is auto, trunk mode is on
Port mode is TE
Port vsan is 1
Speed is 1 Gbps
Trunk vsans (admin allowed and active) (1)
Trunk vsans (up) (1)
Trunk vsans (isolated) ()
Trunk vsans (initializing) ()
→ Using Profile id 1 (interface GigabitEthernet1/2)
Peer Information
→ Peer Internet address is 10.10.100.231 and port is 3225
→ FCIP tunnel is protected by IPsec
Write acceleration mode is off
Tape acceleration mode is off
Tape Accelerator flow control buffer size is automatic
IP Compression is disabled
Special Frame is disabled
Maximum number of TCP connections is 2
Time Stamp is disabled
QOS control code point is 0
QOS data code point is 0
B-port mode disabled
TCP Connection Information

```

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```

2 Active TCP connections
  Control connection:Local 10.10.100.232:65492, Remote 10.10.100.231:3225
  Data connection:Local 10.10.100.232:65494, Remote 10.10.100.231:3225
22 Attempts for active connections, 1 close of connections
TCP Parameters
  Path MTU 1400 bytes
  Current retransmission timeout is 200 ms
  Round trip time:Smoothed 2 ms, Variance:3
  Advertized window:Current:128 KB, Maximum:14 KB, Scale:6
  Peer receive window:Current:118 KB, Maximum:118 KB, Scale:6
  Congestion window:Current:15 KB, Slow start threshold:204 KB
  Current Send Buffer Size:14 KB, Requested Send Buffer Size:0 KB
  CWM Burst Size:50 KB
5 minutes input rate 3192 bits/sec, 399 bytes/sec, 4 frames/sec
5 minutes output rate 2960 bits/sec, 370 bytes/sec, 4 frames/sec
3626 frames input, 359324 bytes
  3610 Class F frames input, 357516 bytes
  16 Class 2/3 frames input, 1808 bytes
  1 Reass frames
  0 Error frames timestamp error 0
3630 frames output, 340828 bytes
  3612 Class F frames output, 338580 bytes
  18 Class 2/3 frames output, 2248 bytes
  0 Error frames

```

Verifying Security Associations

To verify security associations (SAs), follow these steps:

- Step 1** Issue the **show crypto sad domain ipsec** command to verify the current peer, mode, and the inbound and outbound index of each switch. The example command outputs follow:

```

MDSA# show crypto sad domain ipsec
interface:GigabitEthernet7/1
  Crypto map tag:cmap-01, local addr. 10.10.100.231
  protected network:
  local ident (addr/mask):(10.10.100.231/255.255.255.255)
  remote ident (addr/mask):(10.10.100.232/255.255.255.255)
→ current_peer:10.10.100.232
   local crypto endpt.:10.10.100.231, remote crypto endpt.:10.10.100.232
→ mode:tunnel, crypto algo:esp-3des, auth algo:esp-md5-hmac
   tunnel id is:1
→ current outbound spi:0x822a202 (136487426), index:1
   lifetimes in seconds::3600
   lifetimes in bytes::483183820800
→ current inbound spi:0x38147002 (940863490), index:1
   lifetimes in seconds::3600
   lifetimes in bytes::483183820800

```

```

MDSC# show crypto sad domain ipsec
interface:GigabitEthernet1/2
  Crypto map tag:cmap-01, local addr. 10.10.100.232
  protected network:
  local ident (addr/mask):(10.10.100.232/255.255.255.255)
  remote ident (addr/mask):(10.10.100.231/255.255.255.255)
→ current_peer:10.10.100.231
   local crypto endpt.:10.10.100.232, remote crypto endpt.:10.10.100.231

```

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```

→ mode:tunnel, crypto algo:esp-3des, auth algo:esp-md5-hmac
   tunnel id is:1
→ current outbound spi:0x38147002 (940863490), index:513
   lifetimes in seconds::3600
   lifetimes in bytes::483183820800
→ current inbound spi:0x822a202 (136487426), index:513
   lifetimes in seconds::3600
   lifetimes in bytes::483183820800

```

Step 2 The SA index can be used to look at the SA in the crypto-accelerator. Issue the **show ipsec internal crypto-accelerator interface gigabitethernet slot/port sad [inbound | outbound] sa-index** command to display the inbound or outbound SA information. The hard limit bytes and soft limit bytes fields display the lifetime in bytes. The hard limit expiry secs and the soft limit expiry secs fields display the lifetime in seconds.



Note

To issue commands with the **internal** keyword, you must have an account that is a member of the network-admin group.

The example command outputs follow:

```

MDSA# show ipsec internal crypto-accelerator interface gigabitethernet 7/1 sad inbound 1
sw172.22.48.91# show ipsec internal crypto-accelerator interface gigabitethernet 7/1 sad
inbound 1
Inbound SA 1 :
  Mode :Tunnel, flags:0x4923000000000000

  IPsec mode is ESP
  Encrypt algorithm is DES/3DES
  Auth algorithm is MD5
  Source ip address 10.10.100.232/255.255.255.255
  Destination ip address 10.10.100.231/255.255.255.255
  Physical port 0, mask:0x1
  Misc select 0 mask:0x0
  Vlan 0 mask:0xffff
  Protocol 0 mask:0x0
  Source port no 0 mask:0x0
  Dest port no 0 mask:0x0
→ Hard limit 483183820800 bytes
→ Soft limit 401042571264 bytes
  SA byte count 845208 bytes <----Elapsed traffic
  SA user byte count 845208 bytes <----Elapsed traffic
  Error count:auth:0, pad:0, replay:0
  Packet count 7032
→ Hard limit expiry 1100652419 secs (since January 1, 1970), remaining 219 7 secs
→ Soft limit expiry 1100652386 secs (since January 1, 1970), remaining 216 4 secs
  Sequence number:7033
  Antireplay window:0xffffffff.0xffffffff.0xffffffff.0xffffffff

MDSC# show ipsec internal crypto-accelerator interface gigabitethernet 1/2 sad inbound 513
Inbound SA 513 :
  Mode :Tunnel, flags:0x4923000000000000

  IPsec mode is ESP
  Encrypt algorithm is DES/3DES
  Auth algorithm is MD5
  Source ip address 10.10.100.231/255.255.255.255
  Destination ip address 10.10.100.232/255.255.255.255
  Physical port 1, mask:0x1
  Misc select 0 mask:0x0
  Vlan 0 mask:0xffff
  Protocol 0 mask:0x0

```

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```

Source port no 0 mask:0x0
Dest port no 0 mask:0x0
→   Hard limit 483183820800 bytes
→   Soft limit 420369924096 bytes
    SA byte count 873056 bytes <----Elapsed traffic
    SA user byte count 873056 bytes <----Elapsed traffic
    Error count:auth:0, pad:0, replay:0

Packet count 7137
→   Hard limit expiry 1100652419 secs (since January 1, 1970), remaining 214 1 secs
→   Soft limit expiry 1100652394 secs (since January 1, 1970), remaining 211 6 secs
    Sequence number:7138
    Antireplay window:0xffffffff.0xffffffff.0xffffffff.0xffffffff

MDSA# show ipsec internal crypto-accelerator interface gigabitethernet 7/1 sad outbound 1
Outbound SA 1 :
    SPI 136487426 (0x822a202), MTU 1400, MTU_delta 4
    Mode :Tunnel, flags:0x92100000000000
    IPsec mode is ESP
    Tunnel options index:0, ttl:0x40, flags:0x1
    Encrypt algorithm is DES/3DES
    Auth algorithm is MD5
    Tunnel source ip address 10.10.100.231
    Tunnel destination ip address 10.10.100.232
→   Hard limit 483183820800 bytes
→   Soft limit 376883380224 bytes
    SA byte count 874544 bytes <----Elapsed traffic
    SA user byte count 874544 bytes <----Elapsed traffic
    Packet count 7150
→   Hard limit expiry 1100652419 secs (since January 1, 1970), remaining 208 9 secs
→   Soft limit expiry 1100652384 secs (since January 1, 1970), remaining 205 4 secs
    Outbound MAC table index:1

    Sequence number:7151

MDSC# show ipsec internal crypto-accelerator interface gigabitethernet 1/2 sad outbound
513
Outbound SA 513 :
    SPI 940863490 (0x38147002), MTU 1400, MTU_delta 4
    Mode :Tunnel, flags:0x92100000000000
    IPsec mode is ESP
    Tunnel options index:0, ttl:0x40, flags:0x1
    Encrypt algorithm is DES/3DES
    Auth algorithm is MD5
    Tunnel source ip address 10.10.100.232
    Tunnel destination ip address 10.10.100.231
→   Hard limit 483183820800 bytes
→   Soft limit 449360953344 bytes
    SA byte count 855648 bytes <----Elapsed traffic
    SA user byte count 855648 bytes <----Elapsed traffic
    Packet count 7122
→   Hard limit expiry 1100652419 secs (since January 1, 1970), remaining 206 4 secs
→   Soft limit expiry 1100652397 secs (since January 1, 1970), remaining 204 2 secs
    Outbound MAC table index:125

    Sequence number:7123

```

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Security Associations Do Not Re-Key

A lifetime counter (in seconds and bytes) is maintained as soon as an SA is created. When the time limit expires, the SA is no longer operational and is automatically renegotiated (re-keyed) if traffic is present. If there is no traffic, the SA will not be re-keyed and the tunnel will go down.

The re-key operation starts when the soft lifetime expires. That happens approximately 20 to 30 seconds before the time-based lifetime expires, or when approximately 10 to 20 percent of the bytes are remaining in the bytes-based lifetime.

To troubleshoot this problem, follow these steps:

-
- Step 1 Verify that traffic was flowing when the soft SA lifetime expired.
 - Step 2 Verify that the configurations are still compatible.
-

Clearing Security Associations

To clear a specific SA, obtain the SA index value and issue the **clear crypto sa domain ipsec interface gigabitethernet slot/port outbound sa-index** command.

To obtain the SA index value, issue the **show crypto sad domain ipsec** command.

Debugging the IPsec Process

To get debug messages printed on the console, the following debugs can be enabled for IPsec:

- debug ipsec error for error messages.
- debug ipsec warning for warning messages.
- debug ipsec config for configuration messages.
- debug ipsec flow for SA related messages.

Debugging the IKE Process

The following commands show the internal state of the IKE process:

- show crypto ike domain ipsec initiator
- show crypto ike domain ipsec sa

Obtaining Statistics from the IPsec Process

To obtain statistics from the IPsec process, issue the **show crypto global domain ipsec** command and the **show crypto global domain ipsec interface gigabitethernet slot/port** command. The **show crypto global domain ipsec** command output displays statistics for all SAs. Example command output follows:

```
MDSA# show crypto global domain ipsec
IPSec global statistics:
```

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```
Number of crypto map sets:1
IKE transaction stats:0 num, 64 max
Inbound SA stats:1 num
Outbound SA stats:1 num
```

The **show crypto global domain ipsec interface gigabitethernet *slot/port*** command output displays interface level statistics. Example command output follows:

```
MDSA# show crypto global domain ipsec interface gigabitethernet 7/1
IPSec interface statistics:
    IKE transaction stats:0 num
    Inbound SA stats:1 num, 512 max
    Outbound SA stats:1 num, 512 max
```