

## Routing Messages and Recovery Procedures

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### AM Messages

This section contains the AM messages.

#### AM-2

**Error Message** AM-2-API\_INIT Format: Failed to initialize %s API

**Explanation** An unrecoverable software error has occurred during the AM initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** AM-2-BAD\_TIMER Format: %s

**Explanation** An unrecoverable software error has occurred during the AM initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** AM-2-CLI\_INIT Format: Failed to initialize CLI

**Explanation** An unrecoverable software error has occurred during the AM initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** AM-2-INIT\_FAIL Format: Initialization failure

**Explanation** An unrecoverable software error has occurred during the AM initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

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**Error Message** AM-2-MQ\_OPEN Format: Failed to open message queue %s: %s

**Explanation** An unrecoverable software error has occurred during the AM initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** AM-2-MTS\_BIND Format: Failed to do mts\_bind for %s: %s

**Explanation** An unrecoverable software error has occurred during the AM initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** AM-2-MTS\_OPC\_SET Format: Failed to register with opcode %d: %s

**Explanation** An unrecoverable software error has occurred during the AM initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** AM-2-MTS\_RECV Format: MTS queue receive failed on %s queue: %s

**Explanation** An unexpected fatal error has occurred.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** AM-2-MTS\_SADDR\_GET Format: Failed to get source of mts queue %s: %s

**Explanation** An unrecoverable software error has occurred during the AM initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** AM-2-NO\_WORKBIT Format: Failed to register %s too many notify clients

**Explanation** An unexpected fatal error has occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** AM-2-REQD\_COMP\_DOWN Format: Required component %s\ has gone down.

**Explanation** An unexpected fatal error has occurred.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

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**Error Message** AM-2-REQD\_COMP\_FAIL Format: Required component \%s\ has failed to initialize.

**Explanation** An unrecoverable software error has occurred during the AM initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** AM-2-SDB\_CREAT Format: Failed to create shared database

**Explanation** An unrecoverable software error has occurred during the AM initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** AM-2-SDB\_DESTROY Format: Failed to destroy shared database

**Explanation** An unrecoverable software error has occurred during the AM initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** AM-2-SDB\_OPEN Format: Failed to open shared database

**Explanation** An unrecoverable software error has occurred during the AM initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** AM-2-SET\_SCHED Format: Failed to set policy or priority

**Explanation** An unrecoverable software error has occurred during the AM initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** AM-2-SHM\_CREAT Format: Failed to create shared memory: %s

**Explanation** An unrecoverable software error has occurred during the AM initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** AM-2-SHM\_LOCK\_CREAT Format: Failed to create shared memory lock: %s

**Explanation** An unrecoverable software error has occurred during the AM initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

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**Error Message** AM-2-SVR\_REG Format: Failed to register as a client of %s for VRF %s

**Explanation** An unrecoverable software error has occurred during the AM initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** AM-2-SYSMGR\_NAME Format: Failed to get name from sysmgr during %s

**Explanation** An unrecoverable software error has occurred during the AM initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** AM-2-SYSMGR\_NOTIFY Format: Bad notification from sysmgr for %s

**Explanation** An unrecoverable software error has occurred during the AM initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** AM-2-SYSMGR\_QUERY Format: Failed to query sysmgr for %s

**Explanation** An unrecoverable software error has occurred during the AM initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** AM-2-SYSMGR\_UUID Format: Failed to get uuid from sysmgr during %s

**Explanation** An unrecoverable software error has occurred during the AM initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** AM-2-THR\_CREAT Format: Failed to create thread %s: error %d

**Explanation** An unrecoverable software error has occurred during the AM initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** AM-2-THREAD\_FAIL Format: Failed to start %s thread

**Explanation** An unrecoverable software error has occurred during the AM initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

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**Error Message** AM-2-URIB\_PIB Format: Unable to get pib for %s VRF from URIB

**Explanation** An unrecoverable software error has occurred during the AM initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

## AM-3

**Error Message** AM-3-BAD\_PARAMS Format: Called %s with address family %d, iod %d, l3address %s

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** AM-3-DEL\_PROT\_ADJ Format: Unable to delete protocol adjacency for %s, uuid %ld

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** AM-3-IF\_INDEX Format: Invalid interface index received from %d

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** AM-3-IP\_GLEAN\_EXCESS\_TRAFFIC Format: Excess traffic (%llu packets / %llu octets) were dropped in %s seconds for ungleaned prefix %s/32 on interface %s in vrf %s

**Explanation** This message indicates an informational log about a system event.

**Recommended Action** No action is required.

**Error Message** AM-3-IPV6\_GLEAN\_EXCESS\_TRAFFIC Format: Excess traffic (%llu packets / %llu octets) were dropped in %s seconds for ungleaned prefix %s/128 on interface %s in vrf %s

**Explanation** This message indicates an informational log about a system event.

**Recommended Action** No action is required.

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**Error Message** AM-3-MAC\_REG\_FAILED Format: Mac registration with L2FM failed for mac %s, iod %s, phy iod: %s

**Explanation** MAC registration with L2FM failed.

**Recommended Action** No action is required.

**Error Message** AM-3-MAX\_RETRIES Format: Notification retry limit exceeded for %s

**Explanation** Client is not replying to our notifications.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** AM-3-MQ\_RECV Format: Message queue receive failed on %s queue: %s

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** AM-3-MQ\_SEND Format: Failed to send %s to %s queue: %s

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** AM-3-MSG\_TO\_TLV Format: Notification message to TLV failed

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** AM-3-MTS\_DROP Format: MTS drop failed on %s queue: %s

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** AM-3-MTS\_SEND Format: Failed to send %s to %s queue: %s

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** AM-3-NO\_AF Format: %s: Unable to get address family block for index %d

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

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**Error Message** AM-3-NO\_MEM Format: Malloc failed for %s %s

**Explanation** The system may be low on memory.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** AM-3-NO\_PIB Format: Unable to get pib for client pid %d while processing %s

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** AM-3-NO\_SMEM Format: Smalloc failed for %s %s

**Explanation** AM's shared memory quota may be used up, due to a large number of adjacencies or a memory leak.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** AM-3-PT\_ADD Format: Pt\_add failed for %s %s

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** AM-3-QUEUE Format: %s failed for %s

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** AM-3-READ\_LOCK\_HOLD Format: %s:%s():%d: Assert, read-lock not acquired

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** AM-3-RIB\_RTE\_CHG Format: Failed to send AM route changes to %s

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

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**Error Message** AM-3-SHM\_OPEN Format: Shared memory does not exist: %s

**Explanation** This message indicates an informational log about a system event.

**Recommended Action** No action is required.

**Error Message** AM-3-THR\_MUTEX\_LOCK Format: Failed to thread mutex lock

**Explanation** Failed function pthread\_mutex\_lock.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** AM-3-THR\_MUTEX\_UNLOCK Format: Failed to thread mutex lock

**Explanation** Failed function pthread\_mutex\_unlock.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** AM-3-TLV\_TO\_STRUCT Format: Notification TLV to struct failed

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** AM-3-URIB\_CNTXT Format: Failed to get Table\_ID for %s on %s from %s (%ld)

**Explanation** An unrecoverable software error has occurred during the AM initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

## AM-5

**Error Message** AM-5-INVALID\_NOTIFY Format: Received invalid notification message

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** AM-5-MQ\_MAJOR Format: Received unknown major message type (%d) from %s

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

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**Error Message** AM-5-MQ\_MINOR Format: Received unknown minor message type (%d) from %s

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** AM-5-MQ\_UNEXP Format: Received unexpected message (%d/%d) on %s queue

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** AM-5-MSG\_UNK Format: Received unknown % type: %lu

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** AM-5-MTS\_OPC\_UNK Format: Received unknown MTS opcode %lu

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** AM-5-REG\_DELAY Format: AM register %s delay: %d seconds

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

## AM-6

**Error Message** AM-6-FAILED\_STATS Format: Failed to retrieve stats from FTM

**Explanation** This message indicates an informational log about a system event.

**Recommended Action** No action is required.

**Error Message** AM-6-SYSMAN\_CLEANUP Format: Terminated by SYSMAN cleanup signal ;  
Explanation: Informational log about a system event.

**Explanation** The system has detected an error.

**Recommended Action** No action is required.

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## AMT Messages

This section contains the AMT messages.

### AMT-2

**Error Message** AMT-2-SHM\_LOCK\_CREAT Format: Failed to create shared memory lock: %s

**Explanation** The system has failed to initialize.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

### AMT-3

**Error Message** AMT-3-AMT\_INIT Format: AMT init failed: %s

**Explanation** AMT process initialization failed.

**Recommended Action** Dump core, and then restart component.

**Error Message** AMT-3-API\_INIT Format: Couldn't initialize %s API

**Explanation** AMT failed to open API to interact with the component.

**Recommended Action** No action is required.

**Error Message** AMT-3-BIND Format: bind() on %s failed: %s

**Explanation** AMT failed to bind UDP socket.

**Recommended Action** Dump core, and then restart component.

**Error Message** AMT-3-COMP\_DEREG Format: Unable to de-register with %s

**Explanation** AMT failed to de-register with a server component.

**Recommended Action** No action is required.

**Error Message** AMT-3-COMP\_REG Format: Unable to register with %s

**Explanation** AMT failed to register with a server component.

**Recommended Action** Dump core, and then restart component.

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**Error Message** AMT-3-DISC\_NOT\_ANYCAST Format: Relay Discovery packet from %s is addressed to %s, not an anycast address

**Explanation** An AMT Gateway sent Relay Discovery not using the Relay Anycast address.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** AMT-3-IP\_TUNNEL\_LIMIT Format: Reach IP tunnel limit of %d

**Explanation** AMT process failed to create tunnel because the policy limit has been reached.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** AMT-3-IPV6\_TUNNEL\_LIMIT Format: Reach IPv6 tunnel limit of %d

**Explanation** AMT process failed to create tunnel because the policy limit has been reached.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** AMT-3-LIB\_API\_INIT Format: Couldn't initialize %s API

**Explanation** Failed to open AMT API to interact with the component.

**Recommended Action** No action is required.

**Error Message** AMT-3-LIB\_SM\_CLOSE Format: Couldn't close shm segment %s

**Explanation** Process failed to remove shared memory resource.

**Recommended Action** No action is required.

**Error Message** AMT-3-LIB\_SM\_OPEN Format: Couldn't open shm segment %s

**Explanation** Process failed to access AMT's shared memory.

**Recommended Action** Dump core, and then restart component.

**Error Message** AMT-3-MALLOC Format: Private mem malloc (%lu) failed in %s

**Explanation** AMT process is out of free private memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** AMT-3-MRIB\_ADD\_ROUTE Format: MRIB add route failed in %s

**Explanation** AMT failed to add route in MRIB.

**Recommended Action** No action is required.

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**Error Message** AMT-3-MRIB\_DEL\_ROUTE Format: MRIB delete route failed in %s

**Explanation** AMT failed to delete route in MRIB.

**Recommended Action** No action is required.

**Error Message** AMT-3-MTS\_DROP Format: Error returned from mts\_drop(), errno: %s

**Explanation** AMT called an MTS API which returned an error.

**Recommended Action** Dump core, and then restart component.

**Error Message** AMT-3-MTS\_RECV Format: Error returned from mts\_recv(), errno: %s

**Explanation** AMT called an MTS API which returned an error.

**Recommended Action** Dump core, and then restart component.

**Error Message** AMT-3-NO\_AMT\_PAYLOAD Format: No AMT payload after stripping IP/IPv6 and UDP headers from %s, length: %d

**Explanation** AMT process received packet which is too short. The other side of the AMT tunnel has a protocol error.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** AMT-3-NO\_M\_COPYBACK Format: m\_copyack() failed in  
amt\_receive\_multicast\_data()

**Explanation** AMT process failed to copy AMT multicast data into an mbuf for IP to replicate the packet.

**Recommended Action** No action is required.

**Error Message** AMT-3-NO\_M\_GET Format: amt\_receive\_multicast\_data() could allocate  
mbuf data structure

**Explanation** AMT process failed to allocate an mbuf data structure to forward AMT encapsulated data in an AMT Gateway.

**Recommended Action** No action is required.

**Error Message** AMT-3-NO\_SET\_PRIORITY Format: Failed to set policy or priority

**Explanation** AMT process could not set itself process priority, exiting.

**Recommended Action** No action is required.

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**Error Message** AMT-3-PKT\_BAD\_NONCE Format: Nonce from Relay Advertisement packet from %s does not match Relay Discovery packet nonce, received 0x%08x, expected 0x%08x

**Explanation** There is a possible AMT spoof attack since the Advertise and Discovery nonces do not match.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** AMT-3-PKT\_TOO\_SHORT Format: Packet too short from %s

**Explanation** AMT process received packet which is too short. The other side of the AMT tunnel has a protocol error.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** AMT-3-PT\_ADD Format: Couldn't add %s to Patricia Trie

**Explanation** AMT failed to update the tunnel Patricia Trie.

**Recommended Action** No action is required.

**Error Message** AMT-3-PT\_DEL Format: Couldn't delete %s from local PT

**Explanation** AMT failed to delete the local route-table entry.

**Recommended Action** No action is required.

**Error Message** AMT-3-PTHREAD\_CREATE Format: Couldn't create thread %s

**Explanation** AMT process failed to create a task thread.

**Recommended Action** Dump core, and then restart component.

**Error Message** AMT-3-RESTART\_REASON Format: AMT process has restarted, restart reason: %s\n

**Explanation** AMT is restoring the routes it had added in previous instance.

**Recommended Action** No action is required.

**Error Message** AMT-3-RLIMIT Format: Couldn't set AMT data segment size to %lu

**Explanation** AMT process could not set a memory resource limit, exiting.

**Recommended Action** No action is required.

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**Error Message** AMT-3-SETSOCKOPT Format: setsockopt() on %s failed: %s

**Explanation** AMT failed in UDP socket operation.

**Recommended Action** Dump core, and then restart component.

**Error Message** AMT-3-SLAB\_CREATE Format: Slab alloc of type %s failed

**Explanation** AMT process failed to allocate Slab memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** AMT-3-SM\_CREATE Format: Couldn't create shm segment %s

**Explanation** AMT process failed to initialize shared memory resource.

**Recommended Action** Dump core, and then restart component.

**Error Message** AMT-3-SMALLOC Format: Shared mem malloc (%lu) failed in %s

**Explanation** AMT process is out of free shared memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** AMT-3-SOCKET Format: socket() for %s failed: %s

**Explanation** AMT failed to obtain UDP socket.

**Recommended Action** Dump core, and then restart component.

**Error Message** AMT-3-TIMER\_SET\_INIT Format: Couldn't init %s active timer set

**Explanation** AMT failed to initialize timer resource.

**Recommended Action** Dump core, and then restart component.

**Error Message** AMT-3-TUNNEL\_FAILED Format: Could not allocate shared-memory for amt\_tunneltype data structure

**Explanation** AMT process failed to create data structure to establish tunnel.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** AMT-3-UDP\_SENDTO Format: udp\_sendto() failed to %s in %s, error: %s

**Explanation** AMT failed to send over UDP socket.

**Recommended Action** No action is required.

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**Error Message** AMT-3-UNKNOWN\_MTYPE Format: Unknown mtype: %d/%d in %s

**Explanation** AMT process received unknown Interprocess message, dropped.

**Recommended Action** No action is required.

## AMT-6

**Error Message** AMT-6-RESTART\_SHUTDOWN Format: AMT shutting self down via restart command

**Explanation** AMT process is shutting itself down due to the restart command.

**Recommended Action** No action is required.

**Error Message** AMT-6-SHUTDOWN Format: Shutting down AMT process

**Explanation** PIM received a shutdown request.

**Recommended Action** No action is required.

**Error Message** AMT-6-SHUTDOWN\_SELF Format: AMT shutting self down

**Explanation** AMT process is shutting itself down.

**Recommended Action** No action is required.

**Error Message** AMT-6-UNKNOWN\_OPC Format: Received unknown mts opcode %d

**Explanation** AMT process received unknown Interprocess message, dropped.

**Recommended Action** No action is required.

## ARP Messages

This section contains the ARP messages.

## ARP-2

**Error Message** ARP-2-AM\_PIB Format: Failed to acquire AM handle %s

**Explanation** An unrecoverable software error has occurred during ARP initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

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**Error Message** ARP-2-AM\_REG Format: Failed to register as a client of AM %s

**Explanation** An unrecoverable software error has occurred during ARP initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** ARP-2-API\_INIT Format: Failed to initialize %s API

**Explanation** An unrecoverable software error has occurred during ARP initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** ARP-2-API\_INITIALIZE Format: Failed to initialize %s API with rc=0x%x, %s

**Explanation** An unrecoverable software error has occurred during ARP initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** ARP-2-CLI\_INIT Format: Failed to initialize CLI

**Explanation** An unrecoverable software error has occurred during ARP initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** ARP-2-DUP\_SRC\_IP Format: Source address of packet received from %s on %s(%s) is duplicate of local, %s

**Explanation** There may be another router on this network that is configured with the same IP address.

**Recommended Action** Check all routers on the interface for a misconfiguration.

**Error Message** ARP-2-DUP\_SRCIP Format: Source address of packet received from %s on %s is duplicate of local, %s

**Explanation** There may be another router on this network that is configured with the same IP address.

**Recommended Action** Check all routers on the interface for a misconfiguration.

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**Error Message** ARP-2-INIT\_FAIL Format: Initialization failure

**Explanation** An unrecoverable software error has occurred during ARP initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** ARP-2-MQ\_OPEN Format: Failed to open message queue %s: %s

**Explanation** An unrecoverable software error has occurred during ARP initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** ARP-2-MQ\_RECV Format: Message queue receive failed on %s queue: %s

**Explanation** An unexpected fatal error has occurred.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** ARP-2-MTS\_BIND Format: Failed to do mts\_bind for %s: %s

**Explanation** An unrecoverable software error has occurred during ARP initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** ARP-2-MTS\_OPC\_SET Format: Failed to register with opcode %d: %s

**Explanation** An unrecoverable software error has occurred during ARP initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** ARP-2-MTS\_RECV Format: MTS queue receive failed on %s queue: %s

**Explanation** An unexpected fatal error has occurred.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** ARP-2-SET\_SCHED Format: Failed to set policy or priority

**Explanation** An unrecoverable software error has occurred during ARP initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

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**Error Message** ARP-2-SHM\_ATTACH Format: Failed to attach %s shared memory

**Explanation** An unrecoverable software error has occurred during ARP initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** ARP-2-SVR\_REG Format: Failed to register as a client of %s

**Explanation** An unrecoverable software error has occurred during ARP initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** ARP-2-SYSMGR\_NOTIFY Format: Bad notification from sysmgr for %s

**Explanation** An unrecoverable software error has occurred during ARP initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** ARP-2-SYSMGR\_QUERY Format: Failed to query sysmgr for %s

**Explanation** An unrecoverable software error has occurred during ARP initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** ARP-2-SYSMGR\_UUID Format: Failed to get uuid from sysmgr during %s

**Explanation** An unrecoverable software error has occurred during ARP initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** ARP-2-THR\_CREAT Format: Failed to create thread %s: error %d

**Explanation** An unrecoverable software error has occurred during ARP initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** ARP-2-THREAD\_FAIL Format: Failed to start %s thread

**Explanation** An unrecoverable software error has occurred during ARP initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

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**Error Message** ARP-2-TIMER\_SET Format: Failed to initialize new timer set

**Explanation** An unrecoverable software error has occurred during ARP initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** ARP-2-TIMERS\_INIT Format: Failed to initialize timers

**Explanation** An unrecoverable software error has occurred during ARP initialization.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

## ARP-3

**Error Message** ARP-3-ADJ\_ADD Format: Failed to add adjacency for received packet from %s on %s

**Explanation** Due to this failure, packet forwarding to this address will be affected until the next successful retry.

**Recommended Action** No action is required.

**Error Message** ARP-3-ADJ\_UPD Format: Failed to update adjacency for received packet from %s on %s

**Explanation** Due to this failure, packet forwarding will continue to use the existing ARP adjacency entry values.

**Recommended Action** No action is required.

**Error Message** ARP-3-API\_MQ\_INVALID Format: ARP API Error: Invalid ARP message queue in %s

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-API\_MQ\_SEND Format: ARP API Error: Failed to send %s to %s queue: %s

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

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**Error Message** ARP-3-API\_MTS\_INVALID Format: ARP API Error: Invalid ARP MTS queue in %s

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-API\_MTS\_SEND Format: ARP API Error: Failed to send %s to %s queue: %s

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-DAI\_FETCH\_ERR Format: DAI lookup failed, callback function returned 0x%x (%s) for %s %s

**Explanation** DAI lookup failed.

**Recommended Action** No action is required.

**Error Message** ARP-3-DUP\_VADDR\_SRC\_IP Format: Source address of packet received from %s on %s(%s) is duplicate of local virtual ip, %s

**Explanation** There may be another router on this network that is configured with the same IP address.

**Recommended Action** Check all routers on the interface for a misconfiguration.

**Error Message** ARP-3-DUP\_VADDR\_SRCIP Format: Source address of packet received from %s on %s is duplicate of local virtual ip, %s

**Explanation** There may be another router on this network that is configured with the same IP address.

**Recommended Action** Check all routers on the interface for a misconfiguration.

**Error Message** ARP-3-DUP\_VIRT\_SRC\_IP Format: Source address of packet received from %s on %s(%s) is duplicate of local virtual ip, %s

**Explanation** There may be another router on this network that is configured with the same IP address.

**Recommended Action** Check all routers on the interface for a misconfiguration.

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**Error Message** ARP-3-DUP\_VIRT\_SRCIP Format: Source address of packet received from %s on %s is duplicate of local virtual ip, %s

**Explanation** There may be another router on this network that is configured with the same IP address.

**Recommended Action** Check all routers on the interface for a misconfiguration.

**Error Message** ARP-3-GRAT\_ETH Format: Sending gratuitous arp for %s on invalid interface %s, not ethernet

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-GRAT\_IOD Format: Sending gratuitous ARP for %s on an invalid interface %u

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-GRAT\_IP Format: Sending gratuitous ARP request for %s IP address %s on %s

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-GRAT\_NON\_AM Format: Sending gratuitous arp for %s on invalid interface %s

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-GRAT\_P2P Format: Sending gratuitous arp for %s on invalid interface %s, point-to-point

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-HDR\_ERR Format: Failed to get ARP header, expected %d, got %d bytes

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

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**Error Message** ARP-3-HDR\_L2LEN\_ERR Format: Received packet with incorrect layer 2 address length (%d bytes)

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-HDR\_L3LEN\_ERR Format: Received packet with incorrect layer 3 address length (%d bytes)

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-IF\_INDEX Format: Invalid interface index received from %d

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-IM\_EXT Format: Couldn't set IM-extension for interface %s

**Explanation** ARP process failed to set IM extension.

**Recommended Action** No action is required.

**Error Message** ARP-3-INVALID\_HDR Format: Found incorrect hardware/protocol type in ARP header: %hu/%hu

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-INVALID\_STATE Format: Unrecognized ARP entry state in timer callback: %lu

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-MAC\_ERR Format: Failed to get MAC address on %s for %s

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

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**Error Message** ARP-3-MBUF\_ERR Format: Failed to get the remainder of packet, expected %d, got %d bytes

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-MTS\_DROP Format: MTS drop failed on %s queue: %s

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-NO\_MBUF Format: Failed to allocate buffer for %s

**Explanation** The system may have run out of packet memory buffers.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** ARP-3-NO\_MEM Format: Malloc failed for %s %s

**Explanation** The system may be low on memory.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** ARP-3-PKT\_ENCAP Format: Failed to encapsulate packet

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-PKT\_OUT Format: Failed to send packet to PM

**Explanation** PM's message queue may be temporarily full.

**Recommended Action** No action is required.

**Error Message** ARP-3-REQ\_ADD Format: Failed to add adjacency while sending request for %s on %s, request from pid: %d

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

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**Error Message** ARP-3-REQ\_ETH Format: Sending ARP request for %s on invalid interface %s, not ethernet, request from pid: %d

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-REQ\_IOD Format: Sending ARP request for %s on an invalid interface %u, request from pid: %d

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-REQ\_IP Format: Sending ARP request for %s IP address %s on %s, request from pid: %d

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-REQ\_NON\_AM Format: Sending ARP request for %s on invalid interface %s request from pid: %d

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-REQ\_P2P Format: Sending ARP request for %s on invalid interface %s, point-to-point, request from pid: %d

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-TIMER\_RSTART Format: Failed to restart timer 0x%p for %s on %s

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-VRRP\_ETH Format: Adding vrrp arp for %s: invalid interface %s, not ethernet

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

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**Error Message** ARP-3-VRRP\_IOD Format: Adding vrrp arp for %s: invalid interface %u

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-VRRP\_NON\_AM Format: Sending vrrp arp for %s on invalid interface %s

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-VRRP\_P2P Format: Sending vrrp arp for %s on invalid interface %s, point-to-point

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-VRRPQ\_ADD Format: Failed to add VRRP queue entry for %s, %s on %s

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-3-VRRPQ\_IP Format: Trying to add invalid IP address %s on %s to vrrp queue

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

## ARP-4

**Error Message** ARP-4-DIR\_BCAST Format: %s address of packet received from %s on %s matches directed broadcast address, %s

**Explanation** There may be a configured subnet mask-length mismatch among router interfaces connected on this LAN.

**Recommended Action** Check all routers on the interface for a misconfiguration.

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**Error Message** ARP-4-DUP\_IP Format: ARP entry found with duplicate IP address %s on %s

**Explanation** There may be another router on this network that is configured with the same IP address.

**Recommended Action** Check all routers on the interface for a misconfiguration.

**Error Message** ARP-4-INVALID\_IP Format: Received packet with invalid %s IP address (%s) from %s on %s

**Explanation** There may be a connected router sending packets with a bogus IP address.

**Recommended Action** Check all routers on the interface for a misconfiguration.

**Error Message** ARP-4-INVALID\_MAC Format: Received packet with invalid %s MAC address (%s) from %s on %s

**Explanation** There may be a connected router sending packets with a bogus MAC address.

**Recommended Action** Check all routers on the interface for a misconfiguration.

**Error Message** ARP-4-OWN\_SRCMAC Format: Received packet with a local source MAC address (%s) from %s on %s

**Explanation** There may be a connected router sending packets with local MAC address.

**Recommended Action** Check all routers on the interface for a misconfiguration.

**Error Message** ARP-4-SRCIP\_ERR Format: Source address of received packet (%s) does not match subnet on interface %s

**Explanation** There may be a configured subnet mismatch among router interfaces connected on the LAN.

**Recommended Action** Check all routers on the interface for a misconfiguration.

## ARP-5

**Error Message** ARP-5-MQ\_MINOR Format: Received unknown minor message type (%d) from %s

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

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**Error Message** ARP-5-MQ\_UNEXP Format: Received unexpected message (%d/%d) on %s queue

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-5-MSG\_UNK Format: Received unknown % type: %lu

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-5-MTS\_OPC\_UNK Format: Received unknown MTS opcode %lu

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-5-UNK\_IP\_NOTIF Format: Unrecognized IP address change notification type %lu

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-5-UNK\_MSG\_MINOR Format: Unrecognized %s message minor type %d

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No action is required.

**Error Message** ARP-5-UNK\_SIG Format: Received unknown signal %d ; Explanation: An unexpected but recoverable error has occurred.

**Explanation** The system has detected an error.

**Recommended Action** No action is required.

## ARP-6

**Error Message** ARP-6-SYSMAN\_CLEANUP Format: Terminated by SYSMAN cleanup signal ; Explanation: Informational log about a system event.

**Explanation** The system has detected an error.

**Recommended Action** No action is required.

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## ATIMERS Messages

This section contains the ATIMERS messages.

### ATIMERS-3

**Error Message** ATIMERS-3-ERROR Format: %s

**Explanation** An active timer API has detected an error  
Parameters: Error ...

**Recommended Action** No action is required.

**Error Message** ATIMERS-3-OPER Format: timer failed to %s, error %s

**Explanation** An active timer API has detected an error  
Parameters: timer operation, reason ...

**Recommended Action** No action is required.

**Error Message** ATIMERS-3-START Format: starting timer 0x%p: heap not allocated for set id %u

**Explanation** An active timer API has detected an error  
Parameters: timer, Set ID ...

**Recommended Action** No action is required.

**Error Message** ATIMERS-3-STOP Format: stopping timer 0x%p: heap not allocated for set id %u\n

**Explanation** An active timer API has detected an error  
Parameters: timer, Set ID ...

**Recommended Action** No action is required.

## BGP Messages

This section contains the BGP messages.

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## BGP-1

**Error Message** BGP-1-FATAL Format: Fatal error: %s: %s

**Explanation** An unexpected fatal error has occurred.  
Parameters: Error Type, Error ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** BGP-1-UNKNOWNFATAL Format: Unknown fatal error %d: %s

**Explanation** An unexpected fatal error has occurred.  
Parameters: Error Type, Error ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

## BGP-2

**Error Message** BGP-2-AFINIT Format: Error initializing address family, (%d)

**Explanation** An unrecoverable error has occurred during BGP initialization.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** BGP-2-AFINITFUNCS Format: Error initializing address family function vectors, (%d)

**Explanation** An unrecoverable error has occurred during BGP initialization.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** BGP-2-APIINIT Format: Unable to initialize %s API

**Explanation** An unrecoverable error has occurred during BGP initialization.  
Parameters: Server Name ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** BGP-2-APIMTSBIND Format: Unable to bind to MTS SAP for %s, sap %d: %s

**Explanation** BGP client was not able to create a message queue for communication.  
Parameters: Queue name, MTS SAP, Error ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

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**Error Message** BGP-2-ATTACH Format: Unable to attach to %s

**Explanation** An unrecoverable error has occurred during BGP initialization.  
Parameters: Server Name ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** BGP-2-IPV6REG Format: Unable to register with IPv6

**Explanation** An unrecoverable error has occurred during BGP initialization.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** BGP-2-MQLOOP\_INIT Format: Message queue loop %s, %s, Error - %s

**Explanation** An unrecoverable error has occurred during BGP initialization.  
Parameters: MQLoop Type, Failure Type, Error ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** BGP-2-MTSBIND Format: Unable to bind to MTS SAP for %s, sap %d: %s

**Explanation** BGP was not able to create a message queue for communication.  
Parameters: Queue name, MTS SAP, Error ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** BGP-2-PEERSHALTED Format: BGP %s shutdown due to no memory condition (%s)

**Explanation** The system may be low on memory.  
Parameters: Peer(s), Error ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-2-PTHREAD Format: procket\_pthread\_create failed for %s: error %d

**Explanation** An unexpected fatal error has occurred.  
Parameters: Thread Name, Error ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** BGP-2-SRVREG Format: Unable to register with %s

**Explanation** An unrecoverable error has occurred during BGP initialization.  
Parameters: Server Name ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

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**Error Message** BGP-2-SYSMGR\_CONDVERIF Format: Sysmgr conditional verify failed

**Explanation** An internal software error occurred.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** BGP-2-SYSMGR\_QUERY Format: Failed to query sysmgr for %s

**Explanation** An internal software error occurred.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** BGP-2-TSP\_INIT Format: Unable to initialize with TSP

**Explanation** An unrecoverable error has occurred during BGP initialization.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** BGP-2-U6RIBREG Format: Unable to register with U6RIB for [afi/safi:%d/%d]

**Explanation** An unrecoverable error has occurred during BGP initialization.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** BGP-2-URIBREG Format: Unable to register with URIB for [afi/safi:%d/%d]

**Explanation** An unrecoverable error has occurred during BGP initialization.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

## BGP-3

**Error Message** BGP-3-ACLTESTADD Format: Failed to add %s peer policy test

**Explanation** An internal software error occurred.  
Parameters: ACL type ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** BGP-3-AGGADD Format: [%s] Couldn't add aggregate for %s/%d

**Explanation** BGP was unable to store an aggregate in an internal datastructure. The BGP process may have run out of memory.

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has available memory, restart BGP.

**Error Message** BGP-3-AGGDEL Format: [%s] Couldn't delete aggregate for %s/%d

**Explanation** An unexpected but handleable event has occurred.  
Parameters: Address-family, Prefix/masklength ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-ALLOCFAIL Format: %s malloc (%ld) failed for: %s

**Explanation** The system may be low on memory.  
Parameters: Alloc Type, Size, Error ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-API\_UNEXP\_RESP Format: Received unexpected message from SAP %d, opcode %d, address %s, ignore it

**Explanation** An unexpected but handleable event has occurred.  
Parameters: MTS SAP, MTS Opcode, IP Address ...

**Recommended Action** No action is required.

**Error Message** BGP-3-APIASSERT Format: %s:%d: Assertion '%s' failed.

**Explanation** An internal software error occurred.  
Parameters: File Name, Line Number, Assert Type ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-APIMTSDROP Format: MTS drop failed on %s queue: %s

**Explanation** An unexpected but handleable event has occurred.  
Parameters: Queue name, Error ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** BGP-3-APIMTSRECV Format: MTS receive failed on %s queue: %s

**Explanation** An unexpected but handleable event has occurred.  
Parameters: Queue name, Error ...

**Recommended Action** No action is required.

**Error Message** BGP-3-APIMTSSEND Format: MTS send() error to SAP %d, opcode %d: %s

**Explanation** An unexpected but handleable event has occurred.  
Parameters: MTS SAP, MTS Opcode, Error ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-APPLY\_BESTPATH\_CFG Format: Failed to apply bestpath configuration: %s

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-ASLEN Format: AS-PATH prepend length exceeds internal limit

**Explanation** The system has exceeded an internal limit when prepending an AS path.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-ASPREPEND Format: Expected AS sequence or entry sequence, got %d/%d

**Explanation** The system has detected an error when prepending to an AS path.  
Parameters: Segment Type, Segment Length ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-ASSERT Format: %s:%d: Assertion '%s' failed.

**Explanation** An internal software error occurred.  
Parameters: File Name, Line Number, Assert Type ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** BGP-3-ATTRAVL\_OP Format: Failed attribute external database operation: %s, id %lu

**Explanation** BGP was unable to perform an attribute external database operation  
Parameters: Operation, Attr ID ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-ATTRID\_OP Format: Failed to %s attribute ID

**Explanation** BGP was unable to allocate or free an index for a BGP PATH attribute block  
Parameters: Allocate or free ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-BADNEXTHOP Format: [%s] Peer %s advertised non-mapped nexthop %s in MP reach attr [afi/safi:%d/%d], dropping NLRI

**Explanation** The router received a next-hop that was inconsistent with the address-family in the update message.  
Parameters: Address-family, Peer, Nexthop address, AFI, SAFI ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-BADPEERAS Format: VRF %s, Peer %s - bad remote-as, expecting %s received %s.

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-BFD\_SEND\_AUTO\_EXPIRY Format: Unable to start BFD staling, error %s(0x%08x)

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-BFD\_SEND\_EXPIRE\_NOW Format: Unable to expire staled BFD sessions, error %s(0x%08x)

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** BGP-3-BFD\_SES\_ADD Format: Unable to add BFD session for peer %s, error %s

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-BFD\_SES\_CREATE Format: Unable to create BFD session Id for peer %s, error %s

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-BFD\_SES\_REMOVE Format: Unable to remove BFD session for peer %s, error %s

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-BFD\_SES\_REMOVE\_ALL Format: Unable to cleanup the BFD sessions during deconfiguration, error %s(0x%08x)

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-BRIB\_ADD\_INT Format: Internal error in adding to BRIB: %s

**Explanation** An internal error was encountered in adding a path to the BRIB. The BGP process may have run out of memory.

Parameters: Error ...

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has available memory, restart BGP.

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**Error Message** BGP-3-BRIB\_RDADD Format: [%s] Couldn't add rdinfo %s to BRIB

**Explanation** BGP was unable to add a prefix to the BGP RIB. The BGP process may have run out of memory.

Parameters: Address-family, RDinformation...

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has available memory, restart BGP.

**Error Message** BGP-3-BRIB\_RDCLASH Format: VRF %s, %s: RD clash found during %s

**Explanation** BGP was unable to allocate RD for the BGP RIB. The BGP process may have run out of memory.

Parameters: VRF Name, Address-family, Event ...

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has available memory, restart BGP.

**Error Message** BGP-3-BRIB\_RDDEL Format: [%s] Couldn't delete rdinfo %s from BRIB

**Explanation** BGP was unable to remove from BGP RIB. The BGP process may have run out of memory.

Parameters: Address-family, RDinformation...

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has available memory, restart BGP.

**Error Message** BGP-3-BRIBADD Format: [%s] Couldn't add dest to BRIB for %s

**Explanation** BGP was unable to add a prefix to the BGP RIB. The BGP process may have run out of memory.

Parameters: Address-family, Prefix/masklength ...

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has available memory, restart BGP.

**Error Message** BGP-3-BRIBDEL Format: [%s] Couldn't delete dest from BRIB for %s

**Explanation** An unexpected but handleable event has occurred.

Parameters: Address-family, Prefix/masklength ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** BGP-3-CLISSET Format: Unable to set %s inheritance for %s

**Explanation** An internal software error occurred.  
Parameters: Template type, Peer address ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** BGP-3-COMADD Format: Error occurred in community addition, no action taken

**Explanation** An internal error was encountered in adding a community.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-COMLEN Format: Community sets exceeded maximum allowed limit

**Explanation** An internal limit was hit in adding a community.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-CONDSRV\_CLEANUP Format: Conditional Service cleanup request failed, %s

**Explanation** Sysmgr rejected BGP's request to shut down.

**Recommended Action** No action is required.

**Error Message** BGP-3-CONFCHK Format: confcheck API %s() failed with error: %s(0x%08x).\n

**Explanation** confcheck API has failed.

**Recommended Action** No action is required.

**Error Message** BGP-3-DAMPFCFG Format: Both policy and global dampconf exist

**Explanation** An internal software error occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-EBGP TTL Format: Unable to set EBGPTTL for peer %s, fd %d

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** BGP-3-EVENT\_WAIT Format: Error while waiting for %s event, error - %s\n

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-EXTCOMADD Format: Error occurred in extended community addition, no action taken

**Explanation** An internal error was encountered in adding an extended community.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-FEATURE\_STATUS Format: FM status for feature %s failed with error: %s(0x%08x).\n

**Explanation** FM get feature status failed.

**Recommended Action** No action is required.

**Error Message** BGP-3-FINDAGGR Format: [%s] Did not find aggregate path for entry %s/%d

**Explanation** BGP was unable to find an internal datastructure for originating a configured aggregate.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-ILLARGS Format: %s called with illegal arguments

**Explanation** An internal software error occurred.  
Parameters: Function ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-INTERNAL Format: Internal error %d: %s

**Explanation** An internal software error occurred.  
Parameters: Error Type, Error ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** BGP-3-INVHDR Format: Peer %s sent unexpected header pattern

**Explanation** The marker pattern in the message header was invalid.

**Recommended Action** Check that the peer router is configured correctly. Clear the peer if necessary after any change.

**Error Message** BGP-3-IPTOS Format: Unable to set IP TOS bits for %s, fd %d

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-LIST Format: %s

**Explanation** An internal software error occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-LISTEN SOCK Format: Failed to listen on %s BGP TCP port

**Explanation** BGP\_EXPL\_SOCKET\_ERROR  
Parameters: Address-family ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-LOWMEM Format: Low on heap memory

**Explanation** The system may be low on memory.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-MD5PASS Format: Cannot set MD5 password %s for peer %s

**Explanation** An internal software error occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-MQLOOP\_SHUTDOWN Format: Couldn't shut down %s message queue loop

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** BGP-3-MTSDROP Format: MTS drop failed on %s queue: %s

**Explanation** An unexpected but handleable event has occurred.  
Parameters: Queue name, Error ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-MTSRECV Format: MTS receive failed on %s queue: %s

**Explanation** An unexpected but handleable event has occurred.  
Parameters: Queue name, Error ...

**Recommended Action** No action is required.

**Error Message** BGP-3-MTSEND Format: MTS send() error to SAP %d, opcode %d: %s

**Explanation** An unexpected but handleable event has occurred.  
Parameters: MTS SAP, MTS Opcode, Error ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-NBRERR Format: %s Peer error: %s

**Explanation** An internal software error occurred.  
Parameters: Peer address, Error ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-NEGWRITE Format: Negative nr of %d bytes left to write to peer %s

**Explanation** An internal software error occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-NETWKRNHSETUP Format: Couldn't setup rnh notifications for network %s, error: %s

**Explanation** Could not setup RNH for network prefix  
Parameters: Network prefix, Error ...

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has available memory, restart BGP.

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**Error Message** BGP-3-NEXTHOPADD Format: [%s] Couldn't add next-hop to RNHDB for %s/%d, error %d

**Explanation** The router was unable to store a BGP next hop in an internal database, because it ran out of memory.

Parameters: Address-family, Prefix/masklength, Error ...

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has available memory, restart BGP.

**Error Message** BGP-3-NEXTHOPDEL Format: [%s] Couldn't delete next-hop from RNHDB for %s/%d, error %d

**Explanation** An unexpected but handleable event has occurred.

Parameters: Address-family, Prefix/masklength, Error ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-NOBUF Format: [%s] Unable to get buffer for %s msg to peer %s

**Explanation** An internal software error occurred.

Parameters: Address-family, Msg Type, Peer address ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-NOMEMORY Format: Could not allocate %s

**Explanation** The system may be low on memory.

Parameters: Data Type ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-NONBESTPATH Format: [%s] Non bestpath in attr. path chain for %s/%d

**Explanation** An internal software error occurred.

Parameters: Address-family, Prefix/masklength ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

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**Error Message** BGP-3-PATH\_DEL Format: Failed to destroy path (%s), error %d

**Explanation** The BGP process may have run out of memory.  
Parameters: Path Type, Error ...

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has available memory, restart BGP.

**Error Message** BGP-3-PATH\_STALE Format: [%s] %s path being %s, for %s from peer %s, should not be stale

**Explanation** An internal software error occurred.  
Parameters: Address-family, Path State, Operation, Prefix/masklength, Peer address ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-PEER Format: Peer %s, failed %s

**Explanation** An internal software error occurred.  
Parameters: Peer address, Operation ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-PFX\_NOMEM Format: Could not allocate %s for %s/%d

**Explanation** The system may be low on memory.  
Parameters: Data Type, Prefix/masklength ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-PLCYOUT Format: Cannot add reference to policy out info for route-map %s

**Explanation** Use the 'restart' command to restart the feature and clear this problem.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-PLCYRNHATTACH Format: Couldn't attach to policy RNH info for policy %s, error: %s

**Explanation** An internal error occurred in using a policy. BGP\_EXPL\_NO\_MEM\_MAYBE.

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has available memory, restart BGP.

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**Error Message** BGP-3-PLCYRNHDETACH Format: Couldn't detach from policy RNH info for policy %s, error: %s

**Explanation** An internal software error occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-PLCYRNHSETUP Format: Couldn't setup rnh notifications for policy %s, error: %s

**Explanation** An internal error occurred in using a policy. BGP\_EXPL\_NO\_MEM\_MAYBE.

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has available memory, restart BGP.

**Error Message** BGP-3-RDINFO Format: VRF %s, %s, table %s: rdinfo %s failed

**Explanation** BGP was unable to initialize an internal datastructure. The BGP process may have run out of memory.

Parameters: VRF name, Address-family, Table name, Operation ...

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has available memory, restart BGP.

**Error Message** BGP-3-RESTARTINIT Format: Unable to determine restart status and initialize

**Explanation** An unrecoverable error has occurred during BGP initialization.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** BGP-3-RESTARTTYPE Format: Error in learning restart type

**Explanation** An internal software error occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-RNHCB Format: RNH %s error: %s

**Explanation** An internal software error occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** BGP-3-RPM\_L3VPN\_EXTCOMM Format: L3vpn extcommunity failure during %s

**Explanation** An unexpected but handleable event has occurred.  
Parameters: Type of operation ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-RPMBIND Format: RPM policy bind failed for %s %s

**Explanation** An unexpected but handleable event has occurred.  
Parameters: Policy type, Policy name ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-RPMHANDLE Format: RPM notification handle does not match existing handle for policy %s

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-RT\_DB\_ADD Format: Couldn't add route target %s into the database

**Explanation** The router could not add route-target in its internal database  
Parameters: Route-target ...

**Recommended Action** ACTION\_BGP\_REPORT\_CS.

**Error Message** BGP-3-SENDBUF Format: Error manipulating sendbuf: %s

**Explanation** An internal software error occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-SNMP\_API\_DATA Format: Message data is NULL

**Explanation** An SNMP message does not have enough memory to store data.

**Recommended Action** No action is required.

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**Error Message** BGP-3-SOCK\_ACCEPT Format: Socket (%d/%d) accept: %s\n

**Explanation** BGP\_EXPL\_SOCK\_ERROR  
Parameters: Socket fds, Error ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-SOCK\_ERR Format: Socket (%d/%d): %s\n

**Explanation** BGP\_EXPL\_SOCK\_ERROR  
Parameters: Socket fds, Error ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-SOCK\_FDPOP Format: Unexpected error during socket fd population %s(%d)

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-SOCK\_RECV Format: Unexpected error during socket data recv %s(%d)

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-SOCKBIND Format: Cannot bind local socket for peer %s: %s

**Explanation** An error occurred during a socket operation.  
Parameters: Peer address, Error ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-SOCKCREATE Format: Cannot create socket for peer %s: %s, stats: %lu/%lu/%lu/%lu/%lu

**Explanation** An error occurred during a socket operation.  
Parameters: Peer address, Error, Socket stats ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** BGP-3-SOCKNONBLOCK Format: Couldn't make fd %d non-blocking: %s

**Explanation** An error occurred during a socket operation.  
Parameters: Socket fd, Error ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-SOCKOPEN Format: TCP connection for peer %s already open, fd %d, state %s

**Explanation** An internal software error occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-SOFTINCAP Format: Peer %s not capable of soft refresh in, operator intervention needed: %s

**Explanation** The router is unable to do a soft refresh for the indicated peer.

**Recommended Action** If necessary, reset the connection with the peer.

**Error Message** BGP-3-SRAND Format: Failed to set random seed

**Explanation** An unrecoverable error has occurred during BGP initialization.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** BGP-3-TBLATTRAVL\_OP Format: Failed table attribute database operation: %s, id %lu

**Explanation** BGP was unable to perform a table attribute database operation  
Parameters: Operation, Attr ID ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-TBLAVL\_OP Format: Failed table database operation: %s, table %s id %lu

**Explanation** BGP was unable to perform a table database operation.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

***Send document comments to [nexus7k-docfeedback@cisco.com](mailto:nexus7k-docfeedback@cisco.com)***

**Error Message** BGP-3-TBLCTX\_INIT Format: VRF %s, %s, table %s: Table initialization failed

**Explanation** BGP was unable to initialize an internal datastructure. The BGP process may have run out of memory.

Parameters: VRF name, Address-family, Table name ...

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has available memory, restart BGP.

**Error Message** BGP-3-THREAD\_SHUTDOWN Format: Problem shutting down thread %s: Operation - %s, Error - %s\n

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-TIMER\_START Format: Couldn't start %s timer %s

**Explanation** An internal software error occurred.

Parameters: Timer Type, Data ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-U6RIBRNH Format: U6RIB RNH error: %s

**Explanation** An internal software error occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-ULIBREG Format: Unable to register with ULIB

**Explanation** An unrecoverable error has occurred during BGP initialization.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** BGP-3-ULIBRNH Format: ULIB RNH error: %s

**Explanation** An internal software error occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** BGP-3-UNEXPECT Format: %s L%d: %s

**Explanation** An internal software error occurred.  
Parameters: File Name, Line Number, Unexpected condition ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-URIB\_API Format: URIB API %s() failed\n

**Explanation** URIB API had failed.

**Recommended Action** No action is required.

**Error Message** BGP-3-URIB\_RT\_MODIFY Format: URIB route modify operation failed during %s

**Explanation** An internal software error occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-URIBRNH Format: URIB RNH error: %s

**Explanation** An internal software error occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-URIBRT Format: URIB RT error: %s

**Explanation** An internal software error occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-3-VRF\_CTX Format: VRF %s, failed %s

**Explanation** An internal software error occurred.  
Parameters: VRF Name, Operation ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

***Send document comments to [nexus7k-docfeedback@cisco.com](mailto:nexus7k-docfeedback@cisco.com)***

**Error Message** BGP-3-VRFAVL\_OP Format: Failed vrf database operation: %s, vrf %s id %lu

**Explanation** BGP was unable to perform a vrf database operation.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

## BGP-4

**Error Message** BGP-4-APIMTSNOMSG Format: No MTS payload found on %s queue, opc %d

**Explanation** An unexpected but handleable event has occurred.  
Parameters: Queue name, MTS Opcode ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-4-EXTCOMLEN Format: %s(): Extended communities(%u + %d) exceeded the max limit of %u

**Explanation** An internal limit was hit in adding an extended community.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-4-INVALIDIOD Format: Received interface(%s) %s notification from IM with zero iod

**Explanation** BGP received an IF notification from IM with zero or invalid iod  
Parameters: Interface name, Type of notification ...

**Recommended Action** No action is required.

**Error Message** BGP-4-ISSU\_CHECK Format: Not ready for ISSU: Graceful Restart or hold time check failed

**Explanation** No user action is required.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-4-ISSU\_HOLDTIME Format: ISSU will be affected if hold time is less than or equal to system switchover time (%d seconds)\n

**Explanation** No user action is required.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** BGP-4-LDP\_CONV\_TIMER\_EXP Format: [%s] Bestpath timer expired before LDP got converged vrf: %s

**Explanation** Bestpath timer expired before LDP got converged after SSO  
Parameters: Address-family,vrf ...

**Recommended Action** No action is required.

**Error Message** BGP-4-MAXPEERS Format: Trying to configure more than %d neighbors

**Explanation** No user action is required.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-4-MQUNEXPECTED Format: Recieved unexpected message (%d/%d) on %s queue

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-4-MTSNOMSG Format: No MTS payload found on %s queue, opc %d

**Explanation** An unexpected but handleable event has occurred.  
Parameters: Queue name, MTS Opcode ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-4-MTSUNKOPC Format: Recieved unknown MTS message on %s queue, opc %d

**Explanation** An unexpected but handleable event has occurred.  
Parameters: Queue name, MTS Opcode ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-4-NODAMPMEM Format: [%s] Unable to dampen prefix %s from peer %s due to no memory

**Explanation** BGP\_EXPL\_NO\_MEMORY  
Parameters: Address-family, Prefix/masklength, Peer address ...

**Recommended Action** No action is required.

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**Error Message** BGP-4-NORID Format: Peer %s sent us 0.0.0.0 as its router-id

**Explanation** A BGP peer sent us an invalid router ID.

**Recommended Action** Check that the peer router is configured correctly. Clear the peer if necessary after any change.

**Error Message** BGP-4-PFXEXCEED Format: [%s] No. of prefix received from %s exceeded configured limit %d

**Explanation** A peer sent more routes than BGP was configured to accept.  
Parameters: Address-family, Peer, Prefix limit ...

**Recommended Action** Check that the peer router is configured correctly. Clear the peer if necessary after any change.

**Error Message** BGP-4-PFXWARN Format: [%s] Number of prefixes received from %s reached %d, maximum %d

**Explanation** The number of routes sent to us by a peer exceeded the threshold at which BGP should generate a warning.  
Parameters: Address-family, Peer, Warning limit, Max limit ...

**Recommended Action** Check that the peer router is configured correctly. Clear the peer if necessary after any change.

**Error Message** BGP-4-RLIMIT Format: Error while setting rlimit, error - %s\n

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** No action is required.

**Error Message** BGP-4-SAMERID Format: Peer %s uses same routerid as us

**Explanation** A BGP peer is using the same router ID as this router.

**Recommended Action** Configure either the local or remote router with a different router ID.

**Error Message** BGP-4-SLAB\_HOLD Format: Not able to hold element from %s slab

**Explanation** The system has detected an error.  
Parameters: Memory slab name ...

**Recommended Action** No action is required.

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**Error Message** BGP-4-SNMP\_DEREGFAIL Format: Failed to deregister MIB with the SNMP agent (%s).\n

**Explanation** No user action is required.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-4-SNMP\_REGFAIL Format: Failed to register MIB with the SNMP agent, the BGP MIB will be unavailable. (%s)\n

**Explanation** No user action is required.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** BGP-4-TXLIST Format: %s

**Explanation** An unexpected but handleable event has occurred.  
Parameters: Error message related to txlist ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**BGP-5**

**Error Message** BGP-5-ADJCHANGE Format: neighbor %s %s %s

**Explanation** A BGP session has just been established. Or a session has just been shutdown.  
Parameters: Neighbor address, Up or Down, Reason ...

**Recommended Action** No action is required.

**Error Message** BGP-5-BADSIG Format: Should not have received signal %d

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** No action is required.

**Error Message** BGP-5-MAXMSGLIMIT Format: [%s] Failed to send update message with prefix %s for peer %s because the msg size(%u) exceeded the maximum limit(%u)

**Explanation** BGP Update message reached the maximum limit  
Parameters: Address-family, Prefix, Peer, Update Message Length, Update Max Message Length ...

**Recommended Action** No action is required.

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**Error Message** BGP-5-MEMALERT Format: BGP memory status changed from %s to %s

**Explanation** The system has detected an error.  
Parameters: Current memory status ...

**Recommended Action** No action is required.

**Error Message** BGP-5-NO\_RD Format: VRF %s : RD deconfigured

**Explanation** RD deconfigured from VRF.  
Parameters: VRF Name ...

**Recommended Action** No action is required.

**Error Message** BGP-5-SHUTDOWN Format: BGP protocol administratively shutdown

**Explanation** BGP protocol was administratively shutdown.

**Recommended Action** No action is required.

## BGP-6

**Error Message** BGP-6-AS4AGG\_INVALID Format: Received AS4\_AGGREGATOR with invalid length %d in it from peer %s

**Explanation** The peer has sent AS4\_AGGREGATOR with invalid attr length which would be discarded.

**Recommended Action** No action is required.

**Error Message** BGP-6-AS4PATH\_CONFED Format: Received AS4\_PATH with CONFED related path segments in it from peer %s

**Explanation** The peer has sent AS4\_PATH with confed based path segments which would be discarded.

**Recommended Action** No action is required.

**Error Message** BGP-6-AS4PATH\_SEGLEN Format: Received AS4\_PATH with zero path segment length in it from peer %s

**Explanation** The peer has sent AS4\_PATH with zero path segment length which would be discarded.

**Recommended Action** No action is required.

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**Error Message** BGP-6-AS4PATH\_SEGTYPE Format: Received AS4\_PATH with invalid path segment type in it from peer %s

**Explanation** The peer has sent AS4\_PATH with invalid path segment type which would be discarded.

**Recommended Action** No action is required.

**Error Message** BGP-6-BADASPATH Format: Long AS path %s received from peer %s: more than configured maxas-limit %d

**Explanation** Session can be brought up due to maximum-peer limit.

**Recommended Action** No action is required.

**Error Message** BGP-6-EXIT\_DECONFIG Format: BGP process exiting due to deconfiguration

**Explanation** The indicated BGP process has been deconfigured.

**Recommended Action** No action is required.

**Error Message** BGP-6-EXIT\_RESTART Format: BGP process exiting due to manual restart

**Explanation** The indicated BGP process is being restarted.

**Recommended Action** No action is required.

**Error Message** BGP-6-EXIT\_UNKNOWN Format: BGP process exiting due to unknown reason

**Explanation** The system has detected an error.

**Recommended Action** No action is required.

**Error Message** BGP-6-IMPORT\_DEFAULT\_MAXPFX\_LIMIT Format: %s Prefixes imported from vrf default to vrf %s reached the max limit %d

**Explanation** The system has detected an error.  
Parameters: Address family, Vrf, Max-prefix-limit check result ...

**Recommended Action** No action is required.

**Error Message** BGP-6-MEMSTAT Format: Hit low memory condition - Free: %u MB, Min free: %u MB

**Explanation** The system has detected an error.  
Parameters: Current The system free memory, Minimum System free memory ...

**Recommended Action** No action is required.

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**Error Message** BGP-6-PATH\_MAXASLIMIT Format: [%s] Path for %s from peer %s found to %s the maxas-limit

**Explanation** The system has detected an error.  
Parameters: Address family, Prefix Masklength, EIGRP Peer that sent the route, Maxas-limit check result ...

**Recommended Action** No action is required.

**Error Message** BGP-6-START Format: BGP process %s startup, reason: %s

**Explanation** The indicated BGP process has started.  
Parameters: Process name, Reason ...

**Recommended Action** No action is required.

## EIGRP Messages

This section contains the EIGRP messages.

### EIGRP-2

**Error Message** EIGRP-2-ALLOC\_URIB\_ADD Format: eigrp\_smalloc() failed for URIB add-route buffer

**Explanation** Failed to allocate URIB add-route buffer.

**Recommended Action** Configure the network or router to decrease the number of routes, or add additional memory to the router.

**Error Message** EIGRP-2-ALLOC\_URIB\_DEL Format: eigrp\_smalloc() failed for URIB delete-route buffer

**Explanation** Failed to allocate URIB delete-route buffer.

**Recommended Action** Configure the network or router to decrease the number of routes, or add additional memory to the router.

**Error Message** EIGRP-2-API\_INIT Format: Couldn't initialize %s API

**Explanation** EIGRP failed to open API to interact with the component.  
Parameters: API name ...

**Recommended Action** Restart the component when the system is working.

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**Error Message** EIGRP-2-BFD\_API\_FAIL Format: bfd\_send\_remove\_sessions

**Explanation** Failed to send bfd remove sessions.

**Recommended Action** No action is required.

**Error Message** EIGRP-2-BFD\_CREATE\_SESSION\_FAILED Format: BFD Session create failed.

**Explanation** Failed to create BFD session.

**Recommended Action** No action is required.

**Error Message** EIGRP-2-CIB\_CREATE\_FAIL Format: eigrp\_create\_cib failed for context %s

**Explanation** Failed to create specified context.

Parameters: Context name ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-2-CLEANUP\_DREG Format: Failed to deregister with %s during eigrp\_cleanup()

**Explanation** Failed to deregister with specified service during process shutdown.

Parameters: Service name ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-2-CLI\_INIT\_FAILED Format: cli\_init() failed in eigrp\_init\_cli()

**Explanation** EIGRP could not register with the CLI server process.

**Recommended Action** Restart the component when the system is working.

**Error Message** EIGRP-2-ERR\_FREEBUF Format: Illegal memory free in function %s

**Explanation** Illegal memory free detected.

Parameters: Function ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** EIGRP-2-ERR\_URIB\_TID Format: Can't determine context from URIB table id %ld

**Explanation** Failed to determine context from URIB table id.  
Parameters: Table id ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-2-ILL\_FUNCCALL Format: Illegal call to function %s

**Explanation** Illegal call to specified function.  
Parameters: Function ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-2-ILL\_POLICY\_TYPE Format: Illegal policy type in %s()

**Explanation** Illegal policy type in specified rpm callback.  
Parameters: Function ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-2-ILL\_WORKTYPE Format: Illegal work type %d ipigrp2\_process\_workq()

**Explanation** Worker thread received illegal work type.  
Parameters: Work type ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-2-ILLEGAL\_TIMER\_ID Format: Illegal timer-id used in mgd\_timer\_init\_leaf(), timer-id: %d

**Explanation** Illegal timer id was specified.  
Parameters: Managed timer id ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** EIGRP-2-IM\_GET\_NAME\_FAILED Format: im\_get\_if\_name failed for iod (%lu) with error (%d)

**Explanation** EIGRP could not get if\_name from Interface Manager.

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-2-IM\_REG\_FAILED Format: im\_register\_client() failed in eigrp\_init\_im()

**Explanation** EIGRP could not register with the IM process.

**Recommended Action** Restart the component when the system is working.

**Error Message** EIGRP-2-INIT Format: %s failed

**Explanation** EIGRP process initialization failed.  
Parameters: Init function ...

**Recommended Action** Restart the component when the system is working.

**Error Message** EIGRP-2-IP\_REG\_FAILED Format: ip\_register() failed in eigrp\_init\_ip()

**Explanation** EIGRP could not register with the IP process.

**Recommended Action** Restart the component when the system is working.

**Error Message** EIGRP-2-L3VM\_SOO\_NOTIF Format: l3vm\_get\_if\_soo\_info failed for interface %s

**Explanation** EIGRP could not get SoO from L3VM for.

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-2-MGD\_TIMER\_CREATE\_FAIL Format: Failed to create managed timer %d

**Explanation** Failed to create specified managed timer.  
Parameters: Managed timer id ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** EIGRP-2-MTS\_BIND Format: mts\_bind() failed in binding %s mts\_q, error %s

**Explanation** Failed in binding to specified mts queue with error.  
Parameters: MTS queue name, Error string ...

**Recommended Action** Restart the component when the system is working.

**Error Message** EIGRP-2-MTS\_REQ\_FM\_STATUS Format: Failed in mts\_register of MTS\_OPC\_FM\_SRV\_FEATURE\_STATUS

**Explanation** Failed to request feature status notification.

**Recommended Action** Restart the component when the system is working.

**Error Message** EIGRP-2-MTSBIND Format: Unable to bind to MTS SAP for %s, sap %d: %s

**Explanation** EIGRP was not able to create a message queue for communication.  
Parameters: Queue name, MTS SAP, Error ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** EIGRP-2-NO\_MEMORY Format: Can't allocate memory in function %s

**Explanation** Cannot allocate memory in specified function.  
Parameters: Function ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-2-NO\_SET\_PRIORITY Format: Failed to set policy or priority

**Explanation** EIGRP process could not set itself process priority, exiting.

**Recommended Action** Restart the component when the system is working.

**Error Message** EIGRP-2-PROCINFO\_CREATE\_FAIL Format: eigrp\_procinfo creation failed

**Explanation** Failed to create procinfo.

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-2-PTHREAD\_FAILED Format: %s failed in %s for thread %s

**Explanation** EIGRP process failed to create a task thread.  
Parameters: Pthread operation, Function, Thread name ...

**Recommended Action** Restart the component when the system is working.

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**Error Message** EIGRP-2-REG\_L3VM Format: Failed to register with l3vm

**Explanation** Failed to register with the l3vm process.

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-2-REG\_OPCODE Format: Could not register opcode 0x%x, reason %s

**Explanation** Could not register mts opcode with the reason.  
Parameters: Opcode, Reason ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-2-RLIMIT\_FAILED Format: Couldn't set data segment size to %lu

**Explanation** EIGRP process could not set its memory resource limit, exiting.  
Parameters: Data segment size ...

**Recommended Action** Restart the component when the system is working.

**Error Message** EIGRP-2-RPM\_L3VPN\_API Format: RPM\_L3VPN\_API failed : %s

**Explanation** EIGRP call tp RPM L3VPN API failed.

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-2-SBCR\_INIT Format: Could not initialize shared database client, rc=0x%x [%s]

**Explanation** Failed to initialize shared database client with return error code.  
Parameters: Error code, Error string ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-2-TIMER\_CREATE\_FAIL Format: Failed to create %s active timer

**Explanation** Failed to create specified active timer.  
Parameters: Active timer name ...

**Recommended Action** Restart the component when the system is working.

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**Error Message** EIGRP-2-TIMER\_SET\_INIT Format: Couldn't init %s active timer set

**Explanation** EIGRP failed to initialize timer resource.  
Parameters: Timer set name ...

**Recommended Action** Restart the component when the system is working.

**Error Message** EIGRP-2-URIB\_ACK\_ERROR Format: URIB ack not processed: %s

**Explanation** EIGRP could not find the xid for URIB ack.

**Recommended Action** No action is required.

**Error Message** EIGRP-2-URIB\_ADD\_ROUTE Format: urib\_add\_route() failed

**Explanation** Failed to add routes to URIB.

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-2-URIB\_DEREGISTER Format: Could not deregister with the URIB in %s

**Explanation** EIGRP could not deregister with URIB in specified function.  
Parameters: Function ...

**Recommended Action** Restart the component when the system is working.

**Error Message** EIGRP-2-URIB\_REDIST\_LIMIT\_WARNING Format: Redistribute threshold limit reached: %d%.

**Explanation** EIGRP has reached the configured redistribute maximum-prefix threshold.  
Parameters: Threshold ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-2-URIB\_REGISTER Format: EIGRP could not register with the URIB

**Explanation** At initialization time, EIGRP could not register with the URIB process.

**Recommended Action** Restart the component when the system is working.

**Error Message** EIGRP-2-URIB\_RT\_MOD\_INIT Format: URIB\_RT\_MOD\_INIT failed

**Explanation** EIGRP call to URIB\_RT\_MOD\_INIT API failed.

**Recommended Action** Restart the component when the system is working.

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**Error Message** EIGRP-2-URIB\_SEND\_BUFFER Format: urib\_rt\_mod\_send() failed

**Explanation** Failed to send add/delete buffer to URIB. The RIB and topology table might be inconsistent. Try restarting EIGRP to clear the issue.

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-2-VERIFY\_PTAG Format: Could not verify process tag with sysmgr

**Explanation** Could not verify process tag with sysmgr.

**Recommended Action** Restart the component when the system is working.

**EIGRP-3**

**Error Message** EIGRP-3-ANCHORCOUNT\_DUAL Format: Anchor count negative

**Explanation** A software or hardware error occurred.

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-3-BADCOUNT\_DUAL Format: Route %s, %d successors, %d rdfs

**Explanation** A software or hardware error occurred.  
Parameters: Route, Number of feasible successors, Number of successors ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>. ;.

**Error Message** EIGRP-3-BFD\_SEND\_AUTO\_EXPIRY Format: Unable to start BFD staling, error %s

**Explanation** EIGRP BFD staling API failed  
Parameters: Error string ...

**Recommended Action** Dump core, and then restart component.

**Error Message** EIGRP-3-BUFFER\_OVERFLOW Format: Buffer overflow: %s

**Explanation** Buffer overflow while writing EIGRP community.

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** EIGRP-3-CMI\_NO\_VRF\_ERR Format: CMI error: No %s VRF information found

**Explanation** CMI returned an error  
Parameters: Error ...

**Recommended Action** No action is required.

**Error Message** EIGRP-3-DUP\_ADDR Format: Duplicate address %s detected on interface %s

**Explanation** The same IP address was configured on two EIGRP routers on the same subnet.  
Parameters: IP address, Interface ...

**Recommended Action** Do not configure the same IP address on multiple EIGRP routers in the same subnet.

**Error Message** EIGRP-3-GR\_OFF\_DURING\_UPG Format: Attempt to upgrade system with graceful-restart off.

**Explanation** Attempt to upgrade system with graceful-restart off.

**Recommended Action** Enable graceful-restart before attempting system upgrade.

**Error Message** EIGRP-3-INTERNAL\_DUAL Format: %s %d: Internal Error

**Explanation** EIGRP internal DUAL finite state error.  
Parameters: DUAL descriptor block name, Autonomous system number ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-3-MTS\_DROP Format: Error returned from mts\_drop(), errno: %s

**Explanation** EIGRP called an MTS API which returned an error.  
Parameters: Error string ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-3-MTS\_RECV Format: Error returned from mts\_recv(), errno: %s

**Explanation** EIGRP called an MTS API which returned an error.  
Parameters: Error string ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

***Send document comments to [nexus7k-docfeedback@cisco.com](mailto:nexus7k-docfeedback@cisco.com)***

**Error Message** EIGRP-3-MTS\_REGISTER Format: mts\_register failed for EIGRP: %s

**Explanation** EIGRP was unable to register an MTS notification.

**Recommended Action** No action is required.

**Error Message** EIGRP-3-MTSDROP Format: MTS drop failed on %s queue: %s

**Explanation** EIGRP\_EXPL\_UNEXPECTED\_EVENT

Parameters: Queue name, Error ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-3-MTSRECV Format: MTS receive failed on %s queue: %s

**Explanation** EIGRP\_EXPL\_UNEXPECTED\_EVENT

Parameters: Queue name, Error ...

**Recommended Action** No action is required.

**Error Message** EIGRP-3-MTSEND Format: MTS send() error to SAP %d, opcode %d: %s

**Explanation** EIGRP\_EXPL\_UNEXPECTED\_EVENT

Parameters: MTS SAP, MTS Opcode, Error ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-3-MULTIFLOW\_DUAL Format: Flow control error, %s, on %s

**Explanation** A software or hardware error occurred.

Parameters: Error description, Interface ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-3-NOHANDLE\_DUAL Format: Handle %d is not allocated in pool.

**Explanation** A software or hardware error occurred.

Parameters: Peer handle ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** EIGRP-3-PEERSEXIST\_DUAL Format: %d peers exist on IIDB %s

**Explanation** A software or hardware error occurred.  
Parameters: Peer count, Interface ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-3-PFXLIMIT\_DUAL Format: %s %d %s prefix limit exceeded

**Explanation** Prefix limit threshold exceeded.  
Parameters: DUAL descriptor block name, Autonomous system number, Prefix type ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-3-PFXLIMITTHR\_DUAL Format: %s %d %s reached prefix limit threshold

**Explanation** Prefix limit threshold reached.  
Parameters: DUAL descriptor block name, Autonomous system number, Prefix type ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-3-PROBESEQ\_DUAL Format: Bad probe sequence %d from %s, expecting %d  
Parameters: Probe seq no received, Peer, Expected seq no ...

**Explanation** A software or hardware error occurred.

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-3-RDBLEFT\_DUAL Format: dest %s, nexthop %s (%s), origin %s

**Explanation** A software or hardware error occurred.  
Parameters: Route, Next hop, Inteface Origin ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** EIGRP-3-REFCOUNT\_DUAL Format: Negative reflowcount in pakdesc %x

**Explanation** A software or hardware error occurred.  
Parameters: Packet descriptor ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-3-RPM\_REDIS\_T\_INIT Format: Couldn't initialize redistribution API for %s

**Explanation** EIGRP failed to open API to interact with the component.  
Parameters: Redistributable client ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-3-SIA\_DUAL Format: Route %s stuck-in-active state in %s %d.  
Cleaning up

**Explanation** EIGRP route stuck-in-active, cleanup happened.  
Parameters: Route, DUAL descriptor block name, Autonomous system number ...

**Recommended Action** No action is required.

**Error Message** EIGRP-3-SYSMGR\_DISPATCH Format: Error returned from sysmgr\_dispatch(), errno: %s

**Explanation** EIGRP called the system manager API which returned an error.  
Parameters: Error string ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-3-SYSMGR\_QUERY Format: Sysmgr state query failed for uuid %d,  
tag %s

**Explanation** A software or hardware error occurred.  
Parameters: Service UUID, Process Tag ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** EIGRP-3-UNKNOWN\_MTYPE Format: Unknown mtype: %d/%d in %s

**Explanation** EIGRP process received unknown Interprocess message, dropped.  
Parameters: Message major type, Message minor type, Function ...

**Recommended Action** No action is required.

**Error Message** EIGRP-3-UNKTIMER\_DUAL Format: Unknown timer type %d expiration  
Parameters: Managed timer id ...

**Explanation** A software or hardware error occurred.

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

## EIGRP-4

**Error Message** EIGRP-4-MQUNEXPECT Format: Received unexpected message (%d/%d) on %s queue

**Explanation** EIGRP\_EXPL\_UNEXPECTED\_EVENT.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-4-MTSNOMSG Format: No MTS payload found on %s queue, opcode %d

**Explanation** EIGRP\_EXPL\_UNEXPECTED\_EVENT  
Parameters: Queue name, MTS Opcode ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-4-MTSUNKOPC Format: Received unknown MTS message on %s queue, opcode %d

**Explanation** EIGRP\_EXPL\_UNEXPECTED\_EVENT  
Parameters: Queue name, MTS Opcode ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** EIGRP-4-PICOSEC\_WARN Format: ip delay eigrp command accepted but did not take effect in 32 bit version mode

**Explanation** The command was issued when in 32bit metric version mode.

**Recommended Action** No action is required.

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## EIGRP-5

**Error Message** EIGRP-5-EVENT\_DUAL Format: %s, %s

**Explanation** DUAL event log message.  
Parameters: DUAL descriptor block name, Log message ...

**Recommended Action** No action is required.

**Error Message** EIGRP-5-HA\_INFO Format: EIGRP HA info msg - %s

**Explanation** EIGRP received a HA informational message  
Parameters: Message ...

**Recommended Action** No action is required.

**Error Message** EIGRP-5-NBRCHANGE\_DUAL Format: %s %d: Neighbor %s (%s) is %s: %s

**Explanation** A neighbor went up or down.  
Parameters: DUAL descriptor block name, Autonomous system number, Peer, Interface, State, Reason ...

**Recommended Action** No action is required.

**Error Message** EIGRP-5-SHUTDOWN Format: Shutting down EIGRP process - %s

**Explanation** EIGRP received a shutdown request.  
Parameters: Reason ...

**Recommended Action** No action is required.

## EIGRP-6

**Error Message** EIGRP-6-UNEQUAL\_METRICS Format: EIGRP: Unequal metric (%s), delay [%llu/%llu], bandwidth [%llu/%llu] , mtu [%u/%u], hopcount [%u/%u], reliability [%u/%u], load [%u/%u]

**Explanation** Unequal metrics detected and log-neighbor-warnings are enabled.  
Parameters: Route, Delay1, Delay2, Bandwidth1, Bandwidth2, Mtu1, Mtu2, Hopcount1, Hopcount2, Reliability1 Reliability2, Load1, Load2 ...

**Recommended Action** EIGRP process still operational. Send error log message and running configuration to the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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## FTM Messages

This section contains the FTM messages.

### FTM-3

**Error Message** FTM-3-ERR\_CFGFAILED Format: %s

**Explanation** Configuration Error.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** FTM-3-ERR\_HWNOMEM Format: %s

**Explanation** H/W Mem Allocation Err.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** FTM-3-ERR\_HWWRITE Format: %s

**Explanation** H/W Write Error.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** FTM-3-ERR\_INTERNAL Format: %s

**Explanation** Internal Error.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** FTM-3-ERR\_IPCFAILED Format: %s

**Explanation** IPC failure.

**Recommended Action** No action is required.

**Error Message** FTM-3-ERR\_NOACTION Format: %s

**Explanation** Internal Data structure error.

**Recommended Action** No action is required.

***Send document comments to [nexus7k-docfeedback@cisco.com](mailto:nexus7k-docfeedback@cisco.com)***

**Error Message** FTM-3-ERR\_SWNOMEM Format: %s

**Explanation** S/W Mem Error.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** FTM-3-WARN\_INTERNAL Format: %s

**Explanation** Internal Warning.

**Recommended Action** No action is required.

## HEAP Messages

This section contains the HEAP messages.

### HEAP-3

**Error Message** HEAP-3-HEAP\_ERROR Format: %s

**Explanation** Heap routing library error.

**Recommended Action** No action is required.

### HEAP-4

**Error Message** HEAP-4-HEAP\_WARNING Format: %s

**Explanation** Heap malloc warning.

**Recommended Action** No action is required.

## ICMPV6 Messages

This section contains the ICMPV6 messages.

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## ICMPV6-2

**Error Message** ICMPv6-2-MALLOC\_FAILED Format: malloc() failed for allocating %s in %s()

**Explanation** ICMPv6 process is out of heap memory. This could be due to temporary increase in the number of static or dynamic Neighbor Cache Entries(NCEs) to a very high value.

**Recommended Action** No action is required.

## ICMPV6-3

**Error Message** ICMPv6-3-ADJ\_ADD Format: Failed to add adjacency for received packet from %s on %s

**Explanation** Due to this failure, packet forwarding to this address will be affected until the next successful retry.

**Recommended Action** No action is required.

**Error Message** ICMPv6-3-API\_FAILED Format: %s failed in %s()

**Explanation** An unexpected but manageable event has occurred.;

**Recommended Action** No action is required.

**Error Message** ICMPv6-3-API\_INIT\_FAILED Format: %s failed in %s() with rc=0x%x, %s

**Explanation** An unexpected but manageable event has occurred.;

**Recommended Action** No action is required.

**Error Message** ICMPv6-3-API\_INTERFACE\_FAILED Format: %s failed for %s in %s()

**Explanation** An unexpected but manageable event has occurred.;

**Recommended Action** No action is required.

**Error Message** ICMPv6-3-BAD\_INFO\_RECEIVED Format: Invalid %s message type %d received in %s()

**Explanation** An unexpected but manageable event has occurred.;

**Recommended Action** No action is required.

***Send document comments to [nexus7k-docfeedback@cisco.com](mailto:nexus7k-docfeedback@cisco.com)***

**Error Message** ICMPv6-3-BITFIELD\_FAILED Format: %s failed in %s

**Explanation** ICMPV6 process could not execute the bitfield operation.  
Parameters: Bitfield operation, Function name ...

**Recommended Action** Dump core, then reload the stack.

**Error Message** ICMPv6-3-CV\_INIT Format: Couldn't init cond var %s

**Explanation** ICMPV6 process failed to initialize conditional-variable resource.  
Parameters: Thread Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** ICMPv6-3-FHRP\_CTXT Format: Adding virtual ipv6 address for %s:  
non-ipv6 enabled interface %s in context %ld

**Explanation** UNEXPECTED\_ERROR\_EXPLANATION.

**Recommended Action** No action is required.

**Error Message** ICMPv6-3-GROUP\_PREFIX\_IGNORE Format: Too many Groups in Group Prefix  
%s. Specify the prefix within /120

**Explanation** GPrefix yields too many Groups  
Parameters: Group Prefix ...

**Recommended Action** No action is required.

**Error Message** ICMPv6-3-GROUP\_RANGE\_IGNORE Format: Too many Groups in Group Range %s  
- %s

**Explanation** Group Range yields too many Groups  
Parameters: Start Group, End Group ...

**Recommended Action** No action is required.

**Error Message** ICMPv6-3-IF\_INDEX Format: Invalid interface index received from %d

**Explanation** UNEXPECTED\_ERROR\_EXPLANATION.

**Recommended Action** No action is required.

**Error Message** ICMPv6-3-MBUF\_OP\_FAILED Format: %s for size %d failed in %s()

**Explanation** An unexpected but manageable event has occurred.;

**Recommended Action** No action is required.

***Send document comments to [nexus7k-docfeedback@cisco.com](mailto:nexus7k-docfeedback@cisco.com)***

**Error Message** ICMPv6-3-MQ\_FAILED Format: %s failed, errno: %s in %s()

**Explanation** An unexpected but manageable event has occurred.;

**Recommended Action** No action is required.

**Error Message** ICMPv6-3-MQ\_FAILED\_NAME Format: %s failed for client %s, errno: %s in %s()

**Explanation** An unexpected but manageable event has occurred.;

**Recommended Action** No action is required.

**Error Message** ICMPv6-3-MQ\_FAILED\_PID Format: %s failed to client pid: %d, errno: %s in %s()

**Explanation** An unexpected but manageable event has occurred.;

**Recommended Action** No action is required.

**Error Message** ICMPv6-3-MSG\_TO\_TLV Format: TLV Conversion failed (%d)

**Explanation** TLV conversion failed.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** ICMPv6-3-MTS\_DROP Format: Error returned from mts\_drop(), errno: %s

**Explanation** ICMPv6 called an MTS API which returned an error.

**Recommended Action** Dump core, and then restart component.

**Error Message** ICMPv6-3-MTS\_FAILED Format: %s failed, errno: %s in %s()

**Explanation** An unexpected but manageable event has occurred.;

**Recommended Action** No action is required.

**Error Message** ICMPv6-3-MTS\_FAILED\_NAME Format: %s failed for client %s, errno: %s in %s()

**Explanation** An unexpected but manageable event has occurred.;

**Recommended Action** No action is required.

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**Error Message** ICMPv6-3-MTS\_FAILED\_PID Format: %s failed to client pid: %d, errno: %s in %s()

**Explanation** An unexpected but manageable event has occurred.;

**Recommended Action** No action is required.

**Error Message** ICMPv6-3-MTS\_RECV Format: Error returned from mts\_recv(), errno: %s

**Explanation** ICMPv6 called an MTS API which returned an error.

**Recommended Action** Dump core, and then restart component.

**Error Message** ICMPv6-3-MUTEX\_INIT Format: Couldn't init mutex %s

**Explanation** ICMPV6 process failed to initialize mutex system resource.  
Parameters: Thread Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** ICMPv6-3-ND\_LOG Format: %s

**Explanation** Neighbor Discovery process found erroneous configuration on the network.

**Recommended Action** No action is required.

**Error Message** ICMPv6-3-ND\_RA\_LOG Format: %s

**Explanation** Network configuration information obtained from Neighbor Discovery - Router Acknowledgement(RA) packet.

**Recommended Action** No action is required.

**Error Message** ICMPv6-3-PACKET\_LENGTH\_ERROR Format: ICMPv6 packet from %s is smaller than payload length of %d bytes:%s()

**Explanation** An unexpected but manageable event has occurred.;

**Recommended Action** No action is required.

**Error Message** ICMPv6-3-PT\_ADD Format: Couldn't add element to PT %s

**Explanation** ICMPv6 failed to update the local database entry.  
Parameters: Patricia tree name ...

**Recommended Action** No action is required.

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**Error Message** ICMPv6-3-PT\_DEL Format: Couldn't delete element from PT %s

**Explanation** ICMPv6 failed to delete the local database entry.  
Parameters: Patricia tree name ...

**Recommended Action** No action is required.

**Error Message** ICMPv6-3-RESERVE\_LIMIT Format: Exceeded reserve-limit for interface %s - dropping

**Explanation** Exceeded 80% of the reserve-limit for interface  
Parameters: Interface ...

**Recommended Action** No action is required.

**Error Message** ICMPv6-3-STATE\_LIMIT Format: Exceeded state-limit for interface %s - dropping

**Explanation** Exceeded 80% of the state-limit for interface  
Parameters: Interface ...

**Recommended Action** No action is required.

**Error Message** ICMPv6-3-SYSMGR\_DISPATCH Format: Error returned from sysmgr\_dispatch(), errno: %s

**Explanation** ICMPv6 called the system manager API which returned an error.

**Recommended Action** Dump core, and then restart component.

**Error Message** ICMPv6-3-TIMER\_FAILED Format: %s failed for %s in %s

**Explanation** The system has detected an error.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** ICMPv6-3-TLV\_TO\_STRUCT Format: TLV to Struct Conversion failed (%d)

**Explanation** TLV to Struct conversion failed.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** ICMPv6-3-TXLIST\_CREATE Format: Couldn't create txlist for %s

**Explanation** ICMPV6 failed to create txlist resource.  
Parameters: Data type ...

**Recommended Action** Dump core, and then restart component.

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**Error Message** ICMPv6-3-VRF\_CREATE Format: ICMPv6 VRF creation failed for vrf %s

**Explanation** ICMPv6 process could not create the VRF context.  
Parameters: VRF name ...

**Recommended Action** Dump core, then reload the stack.

## ICMPV6-6

**Error Message** ICMPv6-6-FHRP\_IOD Format: Adding virtual ipv6 address for %s: non-ipv6 enabled interface %s

**Explanation** UNEXPECTED\_ERROR\_EXPLANATION.

**Recommended Action** No action is required.

**Error Message** ICMPv6-6-RESERVE\_LIMIT\_WARNING Format: Exceeded 80% of the reserve-limit for interface %s

**Explanation** Exceeded 80% of the reserve-limit for interface  
Parameters: Interface ...

**Recommended Action** No action is required.

**Error Message** ICMPv6-6-STATE\_LIMIT\_WARNING Format: Exceeded 80% of the state-limit for interface %s

**Explanation** Exceeded 80% of the state-limit for interface  
Parameters: Interface ...

**Recommended Action** No action is required.

**Error Message** ICMPv6-6-UNKNOWN\_OPC Format: Received unknown mts opcode %d

**Explanation** ICMPv6 process received unknown Interprocess message, dropped.

**Recommended Action** No action is required.

## IGMP Messages

This section contains the IGMP messages.

*Send document comments to [nexus7k-docfeedback@cisco.com](mailto:nexus7k-docfeedback@cisco.com)*

## IGMP-2

**Error Message** IGMP-2-STARTUP\_DEBUG Format: %s %d

**Explanation** An unrecoverable software error has occurred during IGMP startup.  
Parameters: Failure reason ...

**Recommended Action** No action is required.

**Error Message** IGMP-2-STARTUP\_FAILURE Format: Startup failure: %s

**Explanation** An unrecoverable software error has occurred during IGMP startup.  
Parameters: Failure reason ...

**Recommended Action** No action is required.

## IGMP-3

**Error Message** IGMP-3-ALREADY\_RUNNING Format: IGMP already running, exiting

**Explanation** Another IGMP process is already running, this process will shut down.

**Recommended Action** No action is required.

**Error Message** IGMP-3-API\_FAILED Format: %s failed in %s

**Explanation** IGMP process failed in invoking an API.  
Parameters: API name, Function name ...

**Recommended Action** No action is required.

**Error Message** IGMP-3-AVL\_ERROR Format: AVL-tree operation %s failed for %s

**Explanation** IGMP process failed in an AVL-tree manipulation.  
Parameters: AVL tree operation, Tree name ...

**Recommended Action** No action is required.

**Error Message** IGMP-3-BAD\_MSG Format: Invalid %s message received from %s

**Explanation** IGMP received an invalid MTS message.  
Parameters: Message type, Process name ...

**Recommended Action** Dump core, and then restart component.

***Send document comments to [nexus7k-docfeedback@cisco.com](mailto:nexus7k-docfeedback@cisco.com)***

**Error Message** IGMP-3-BF\_CREATE Format: Couldn't create bitfield for %s

**Explanation** IGMP failed to create bitfield resource.  
Parameters: Data type ...

**Recommended Action** Dump core, and then restart component.

**Error Message** IGMP-3-BITFIELD\_FAILED Format: %s failed in %s

**Explanation** IGMP process could not execute the bitfield operation.  
Parameters: Bitfield operation, Function name ...

**Recommended Action** Dump core, then reload the stack.

**Error Message** IGMP-3-CV\_INIT Format: Couldn't init cond var %s

**Explanation** IGMP process failed to initialize conditional-variable resource.  
Parameters: Thread Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** IGMP-3-GET\_MAC\_ADDR Format: %s failed in %s with error %s

**Explanation** IGMP process failed in getting mac addr  
Parameters: API name, Function name, Error String ...

**Recommended Action** No action is required.

**Error Message** IGMP-3-GETRLIMIT\_FAILED Format: Address Space size retrieval failed, reason %s

**Explanation** IGMP process could not retrieve memory resource limit.

**Recommended Action** No action is required.

**Error Message** IGMP-3-GROUP\_DEL Format: Couldn't delete group entry for %s (%s) due to %s from snooping database

**Explanation** IGMP failed to delete the snooping-db group entry.  
Parameters: Group address, Vlan-id, Failure reason ...

**Recommended Action** No action is required.

**Error Message** IGMP-3-GROUP\_PREFIX\_IGNORE Format: Too many Groups in Group Prefix %s. Specify the prefix within /24

**Explanation** GPrefix yields too many Groups  
Parameters: Group Prefix ...

**Recommended Action** No action is required.

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**Error Message** IGMP-3-GROUP\_RANGE\_IGNORE Format: Too many Groups in Group Range %s - %s

**Explanation** Group Range yields too many Groups  
Parameters: Start Group, End Group ...

**Recommended Action** No action is required.

**Error Message** IGMP-3-HA\_DB\_REBUILD Format: HA run-time database buildup %s

**Explanation** IGMP-SNOOP stateful restart status  
Parameters: State description ...

**Recommended Action** No action is required.

**Error Message** IGMP-3-HA\_GLOBAL Format: HA %s operation on IGMP snooping global database failed

**Explanation** IGMP-SNOOP called a PSS API which returned an error.  
Parameters: Operation type ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IGMP-3-HA\_GROUP Format: HA %s operation in vlan %d failed for (%s, %s)

**Explanation** IGMP-SNOOP called a PSS API which returned an error.  
Parameters: Operation type, Vlan-id, Group, Source ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IGMP-3-HA\_OIF Format: HA %s operation on OIF %s for (%s, %s) in vlan %d failed

**Explanation** IGMP-SNOOP called a PSS API which returned an error.  
Parameters: Operation type, Interface, Group, Source, Vlan-id ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IGMP-3-HA\_RPORT Format: HA %s operation on router-port %s for vlan %d failed

**Explanation** IGMP-SNOOP called a PSS API which returned an error.  
Parameters: Operation type, Interface, Vlan-id ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** IGMP-3-HA\_VLAN Format: HA %s operation for vlan %d failed

**Explanation** IGMP-SNOOP called a PSS API which returned an error.  
Parameters: Operation type, Vlan-id ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IGMP-3-IGMP\_INIT Format: IGMP init failed: %s

**Explanation** IGMP process initialization failed.  
Parameters: Failure reason ...

**Recommended Action** Dump core, and then restart component.

**Error Message** IGMP-3-IM\_API\_FAILED Format: %s failed in %s

**Explanation** IM API failed in MCEC IGMP Snoop.  
Parameters: API name, Function name ...

**Recommended Action** No action is required.

**Error Message** IGMP-3-INVALID\_OIF\_LIST Format: IGMP Snooping invalid OIF list %s with %d iods in %s

**Explanation** IGMP-SNOOP has invalid number of iods.  
Parameters: OIF list, OIF count, Function name ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IGMP-3-LIB\_API\_FAILED Format: %s failed in %s

**Explanation** Process failed in invoking IGMP API.  
Parameters: API name, Function name ...

**Recommended Action** No action is required.

**Error Message** IGMP-3-LIB\_MTS\_FAILED Format: %s failed in %s, errno: %s

**Explanation** Process failed to access the IGMP MTS-queue.  
Parameters: MTS IPC operation, Function name, Error ID ...

**Recommended Action** No action is required.

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**Error Message** IGMP-3-LVPORT\_CREATE Format: IGMP Snooping couldn't create an leave-port in %s for group %s

**Explanation** IGMP-SNOOP called an API which returned an error.  
Parameters: Vlan ID, Group address ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IGMP-3-MALLOC\_FAILED Format: %s failed in %s

**Explanation** IGMP process is out of free memory.  
Parameters: Structure type, Function name ...

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** IGMP-3-MFDM\_NO\_BUF Format: Cannot find MFDM buffer from route-ack for xid 0x%x

**Explanation** IGMP process could not find a route buffer in its queue from the MFDM message, ignored.

**Recommended Action** No action is required.

**Error Message** IGMP-3-MTS\_BIND Format: Error returned from mts\_bind() for %s mts-q, errno: %s

**Explanation** IGMP called an MTS API which returned an error.  
Parameters: MTS Queue name, Error description ...

**Recommended Action** Dump core, and then restart component.

**Error Message** IGMP-3-MTS\_DROP Format: Error returned from mts\_drop() for %s queue, errno: %s

**Explanation** IGMP called an MTS API which returned an error.  
Parameters: MTS Queue name, Error description ...

**Recommended Action** Dump core, and then restart component.

**Error Message** IGMP-3-MTS\_RECV Format: Error returned from mts\_recv() for %s queue, errno: %s

**Explanation** IGMP called an MTS API which returned an error.  
Parameters: MTS Queue name, Error description ...

**Recommended Action** Dump core, and then restart component.

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**Error Message** IGMP-3-MTS\_SEND Format: Error returned from mts\_send() for %s queue, errno: %s

**Explanation** IGMP called an MTS API which returned an error.  
Parameters: MTS Queue name, Error description ...

**Recommended Action** Dump core, and then restart component.

**Error Message** IGMP-3-MUTEX\_INIT Format: Couldn't init mutex %s

**Explanation** IGMP process failed to initialize mutex system resource.  
Parameters: Thread Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** IGMP-3-NO\_SET\_PRIORITY Format: Failed to set policy or priority

**Explanation** IGMP process could not set itself process priority, exiting.

**Recommended Action** No action is required.

**Error Message** IGMP-3-NO\_SHUTDOWN Format: Unable to shutdown %s

**Explanation** IGMP process unable to shut itself down.  
Parameters: Shutdown error information ...

**Recommended Action** Dump core, and then restart component.

**Error Message** IGMP-3-PT\_ADD Format: Couldn't add element to PT %s

**Explanation** IGMP failed to update the local snooping-db entry.  
Parameters: Patricia tree name ...

**Recommended Action** No action is required.

**Error Message** IGMP-3-PT\_DEL Format: Couldn't delete element from PT %s

**Explanation** IGMP failed to delete the local snooping-db entry.  
Parameters: Patricia tree name ...

**Recommended Action** No action is required.

**Error Message** IGMP-3-PTHREAD\_FAILED Format: %s failed in %s for thread %s

**Explanation** IGMP process failed to create a task thread.  
Parameters: Pthread operation, Function name, Thread name ...

**Recommended Action** Dump core, and then restart component.

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**Error Message** IGMP-3-PULLUP\_FAILED Format: m\_pullup() of %d bytes failed in %s

**Explanation** IGMP process failed to process the packet, dropping it.  
Parameters: Byte count, Function name ...

**Recommended Action** No action is required.

**Error Message** IGMP-3-QUERIER\_START\_FAILED Format: %s failed in %s

**Explanation** IGMP snoop failed to start the querier.  
Parameters: Function name, Function name ...

**Recommended Action** No action is required.

**Error Message** IGMP-3-RCOUNT\_DELETE Format: Route count delete failed for %s

**Explanation** IGMP called an API which returned an error.  
Parameters: Interface ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IGMP-3-RCOUNT\_UPDATE Format: Route count update failed for %s

**Explanation** IGMP called an API which returned an error.  
Parameters: Interface ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IGMP-3-RESERVE\_LIMIT Format: Exceeded reserve-limit for interface %s - dropping

**Explanation** Exceeded the reserve-limit for interface  
Parameters: Interface ...

**Recommended Action** No action is required.

**Error Message** IGMP-3-RESTART\_REASON Format: IGMP process has restarted, restart reason: %s\n

**Explanation** IGMP is restoring the routes it had added in previous instance.  
Parameters: Restart reason ...

**Recommended Action** No action is required.

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**Error Message** IGMP-3-RPORT\_UPDATE Format: Router-port update failed for %s (%s)

**Explanation** IGMP-SNOOP called an API which returned an error.  
Parameters: Interface, Vlan ID ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IGMP-3-SETRLIMIT\_FAILED Format: Address space size increment of %ld failed, reason %s

**Explanation** IGMP process could not set a memory resource limit  
Parameters: Number of bytes ...

**Recommended Action** No action is required.

**Error Message** IGMP-3-SNOOP\_CONFIG\_ERROR Format: SNOOP: Couldn't configure %s, please configure %s first.

**Explanation** IGMP snooping could not configure a parameter because of dependencies  
Parameters: Configuring parameter, Dependent parameter ...

**Recommended Action** No action is required.

**Error Message** IGMP-3-SOURCE\_DEL Format: Couldn't delete source entry for (%s, %s) (%s) due to %s from snooping database

**Explanation** IGMP failed to delete the snooping-db source entry.  
Parameters: Source address, Group address, Vlan-id, Failure reason ...

**Recommended Action** No action is required.

**Error Message** IGMP-3-STATE\_LIMIT Format: Exceeded state-limit for interface %s - dropping

**Explanation** Exceeded the state-limit for interface  
Parameters: Interface ...

**Recommended Action** No action is required.

**Error Message** IGMP-3-SYSMGR\_DISPATCH Format: Error returned from sysmgr\_dispatch(), errno: %s

**Explanation** IGMP called the system manager API which returned an error.  
Parameters: Error description ...

**Recommended Action** Dump core, and then restart component.

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**Error Message** IGMP-3-TIMER\_FAILED Format: %s failed for %s in %s

**Explanation** IGMP process failed to configure a timer event.  
Parameters: Timer operation, Timer name, Function name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** IGMP-3-TXLIST\_CREATE Format: Couldn't create txlist for %s

**Explanation** IGMP failed to create txlist resource.  
Parameters: Data type ...

**Recommended Action** Dump core, and then restart component.

**Error Message** IGMP-3-UNKNOWN\_MFDM\_OPC Format: igmp\_snoop\_mfdm\_main(): received unknown opcode %d

**Explanation** IGMP process received unknown Interprocess message from MFDM, dropped.  
Parameters: Operation code ...

**Recommended Action** No action is required.

**Error Message** IGMP-3-UNKNOWN\_MTYPE Format: Unknown mtype: %d/%d in %s, opc:%d, from:%s

**Explanation** IGMP process received unknown Interprocess message, dropped.  
Parameters: Major ID, Minor ID, Function name ...

**Recommended Action** No action is required.

**Error Message** IGMP-3-VLAN\_DEL Format: Couldn't delete vlan entry for %s due to %s from snooping database

**Explanation** IGMP failed to delete the snooping-db vlan entry.  
Parameters: Vlan-id, Failure reason ...

**Recommended Action** No action is required.

**Error Message** IGMP-3-VLAN\_EXISTS Format: SNOOP: Couldn't create %s, already exists

**Explanation** IGMP failed to create vlan resource.  
Parameters: VLAN ID ...

**Recommended Action** No action is required.

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**Error Message** IGMP-3-vPC\_API\_FAILED Format: %s%s

**Explanation** API failed in vPC IGMP snoop module.  
Parameters: Error message, Error ...

**Recommended Action** No action is required.

**Error Message** IGMP-3-vPC\_ERROR Format: %s%s

**Explanation** vPC related messages.  
Parameters: vPC related message, Error message ...

**Recommended Action** No action is required.

**Error Message** IGMP-3-VRF\_CREATE Format: IGMP VRF creation failed for vrf %s

**Explanation** IGMP process could not create the VRF context.  
Parameters: VRF name ...

**Recommended Action** Dump core, then reload the stack.

## IGMP-4

**Error Message** IGMP-4-WARN\_OUT\_OF\_MEMORY: igmp [xxxx] Out of memory  
../feature/vsh/cli/cli\_common/cli\_print\_buffer.cc:145

**Recommended Action** No action is required.

## IGMP-5

**Error Message** IGMP-5-SNOOP\_LOOKUP\_MAC\_FOR\_ALL Format: Changed to MAC based lookup  
for ALL vlans\n

**Explanation** If a vlan lookup mode is MAC and vdc-mode is changed to mixed from non-mixed,  
lookup mode is changed to MAC for ALL VLANs.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco  
Support web site <http://www.cisco.com/tac>.

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## IGMP-6

**Error Message** IGMP-6-AS\_LIMIT\_INCREASED Format: Address space size for %s increased %d times

**Explanation** IGMP process incremented AS memory resource limit  
Parameters: Module name, Increment count ...

**Recommended Action** No action is required.

**Error Message** IGMP-6-HA\_SEQNO\_SYNC Format: HA sequence number sync to standby failed, %s

**Explanation** IGMP-SNOOP HA sequence number synchronization to standby failed  
Parameters: Error description ...

**Recommended Action** No action is required.

**Error Message** IGMP-6-HA\_STATEFUL Format: Stateful HA %s

**Explanation** IGMP-SNOOP stateful restart status  
Parameters: State description ...

**Recommended Action** No action is required.

**Error Message** IGMP-6-HA\_SYNC Format: HA sync to standby failed, %s

**Explanation** IGMP-SNOOP HA synchronization message to standby failed  
Parameters: Error description ...

**Recommended Action** No action is required.

**Error Message** IGMP-6-RECEIVE\_QUERY Format: Received %s interface %s from %s

**Explanation** IGMP version mismatch, query still processed.  
Parameters: IGMP version mismatch, Interface, Source address ...

**Recommended Action** No action is required.

**Error Message** IGMP-6-RESERVE\_LIMIT\_WARNING Format: Exceeded 80% of the reserve-limit for interface %s

**Explanation** Exceeded 80% of the reserve-limit for interface  
Parameters: Interface ...

**Recommended Action** No action is required.

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**Error Message** IGMP-6-RESTART\_SHUTDOWN Format: IGMP shutting self down via restart command

**Explanation** IGMP process is shutting itself down due to the restart command.

**Recommended Action** No action is required.

**Error Message** IGMP-6-SHUTDOWN Format: IGMP shutting self down

**Explanation** IGMP process is shutting itself down.

**Recommended Action** No action is required.

**Error Message** IGMP-6-STATE\_LIMIT\_WARNING Format: Exceeded 80% of the state-limit for interface %s

**Explanation** Exceeded 80% of the state-limit for interface  
Parameters: Interface ...

**Recommended Action** No action is required.

**Error Message** IGMP-6-UNKNOWN\_OPC Format: Received unknown mts opcode %d

**Explanation** IGMP process received unknown Interprocess message, dropped.  
Parameters: Operation Code ...

**Recommended Action** No action is required.

**Error Message** IGMP-6-vPC\_INFO Format: %s%s

**Explanation** vPC related messages.  
Parameters: vPC related message, Info message ...

**Recommended Action** No action is required.

## IM Messages

This section contains the IM messages.

### IM-2

**Error Message** IM-2-AM\_GETPIB Format: Unable to get pib from AM (pibName %s)

**Explanation** Could not initialize with Adjacency Manager.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

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**Error Message** IM-2-APIINIT Format: Unable to initialize %s API

**Explanation** Could not initialize server APIs.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-APILAUNCH Format: Unable to start %s

**Explanation** Could not start the specified protocol component.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-APIREGISTER Format: Unable to register with %s API

**Explanation** Could not register with specified server component.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-ATTACH Format: Unable to attach to %s

**Explanation** Could not attach to server shared memory.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-BADTUN Format: Bad tunnel type

**Explanation** Could not set the tunnel to specified type.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-BFCLEAR Format: Cannot clear bit %d in %s

**Explanation** Could not clear a bit in the specified bitfield.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-BFCLEARALL Format: Cannot clear all bits in %s

**Explanation** Could not clear all in the specified bitfield.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-BFCREATE Format: Cannot create %s

**Explanation** Could not create specified bitfield.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

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**Error Message** IM-2-BFFULL Format: Bit field %s is full

**Explanation** Specified bitfield does not have any available space.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-BFINIT Format: %s

**Explanation** Specified bitfield could not be initialized.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-BFSET Format: Cannot set bit %d in %s

**Explanation** Could not set a bit in the specified bitfield.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-BFSETALL Format: Cannot set all bits in %s

**Explanation** Could not set all bits in the specified bitfield.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-CLICOMMANDSINIT Format: CLI commands could not be requested

**Explanation** Request to CLI server for IM commands failed.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-CLT\_GET\_DRVINDICES Format: Could not get driver indices

**Explanation** Could not calculate the total number of interface driver components.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-CLTREGISTER Format: Client %s registration failed, %s

**Explanation** IM client could not be registered due to specified reason.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-CLTUNREGISTER Format: Client %s deregister failed, %s

**Explanation** IM client could not be deregistered due to specified reason.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

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**Error Message** IM-2-DSTADDPT Format: Could not add tunnel node to dest PT, reason %d

**Explanation** Could not add the tunnel destination information to the internal data structure  
Recommended action: Use the 'restart' command to restart the feature and clear this problem.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IM-2-GETCONTEXT Format: Unable to get context from URIB (contextname: %s)

**Explanation** Could not initialize with URIB server.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-INTTIMER Format: Interface %s, %s failed

**Explanation** Interface related timer could not be started.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-MQOPEN Format: unable to open mq %s: %s

**Explanation** The system is unable to open the specified message queue.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-NHADDPT Format: Could not add tunnel next-hop information to PT, reason %d

**Explanation** Could not add the next-hop information for the tunnel to the internal data structure.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-NOMEM Format: Malloc (%ld) failed for: %s

**Explanation** Memory allocation failed for the specified structure. We are running out of memory.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IM-2-PTHREAD Format: procket\_pthread\_create failed for %s: error %d

**Explanation** Could not create new thread.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

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**Error Message** IM-2-SHMCREATE Format: Cannot create shared memory, reason %d

**Explanation** IM is unable to create shared memory resources.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-SUPER\_MEMBER\_MISMATCH Format: super member: count %d, actual %d

**Explanation** Super interface member list is corrupted.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-SYSMGRNOTIFY Format: sysmgr notification for %s failed

**Explanation** Request for sysmgr notification for the specified component failed.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-TIMER Format: %s failed

**Explanation** Operation on the specified timer failed.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-TXLIST\_BAD\_OBJTYPE Format: Bad txlist object type %d

**Explanation** Unknown object type encountered in the transmit list. It could be indication of corrupted transmit list.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-TXLIST\_CREATE Format: %s

**Explanation** Could not create transmit list.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-TXLIST\_DELETE\_MEMBER Format: txlist delete member failed for element %d

**Explanation** Could not remove client from the transmit list.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

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**Error Message** IM-2-TXLIST\_INSERT\_ELEMENT Format: txlist insert element failed for iod %d

**Explanation** Could not insert interface in the transmit list.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-TXLIST\_INSERT\_MEMBER Format: txlist insert member failed for client %s

**Explanation** Could not insert client in the transmit list.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-TXTHREAD\_INIT Format: %s

**Explanation** Could not initialize transmit list thread.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-URIB\_GETPIB Format: Unable to get pib from URIB (pib 0x%p, pibName %s, context 0x%p, contexname %s)

**Explanation** Could not initialize with URIB server.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-URIBRNH Format: URIB %s RNH failed for address %s

**Explanation** Could not setup request for RNH notification with URIB.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-WORKQ\_ADD Format: Failed to add %s to work queue

**Explanation** Could not add the work item to the queue for worker thread.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-WORKQ\_INIT Format: Failed to initialize work queue

**Explanation** Failed to initialize work queue.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

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**Error Message** IM-2-WORKQ\_SYSMGR Format: %s is no longer alive, returning from %s

**Explanation** Server component is going down. Cannot do any more work for that server.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** IM-2-WORKQ\_WAIT Format: Error while waiting for work event, %d

**Explanation** Error while waiting for events in the worker thread.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

## IM-3

**Error Message** IM-3-CLT\_DIFF\_EPID Format: epids differ, old %u, new %u

**Explanation** An older instance of the client is already registered with IM. The new instance will overwrite the old one.

**Recommended Action** No action is required.

**Error Message** IM-3-CLTCLEAREXT Format: Client %s clear extension failed, %s

**Explanation** IM could not clear client extension for the specified interface.

**Recommended Action** No action is required.

**Error Message** IM-3-CLTEXISTS Format: Client %s is already registered with IM via queue %s

**Explanation** An older instance of the client is already registered with IM. The new instance will overwrite the old one.

**Recommended Action** No action is required.

**Error Message** IM-3-CLTSETEXT Format: Client %s set extension failed, %s

**Explanation** IM could not set client extension for the specified interface.

**Recommended Action** No action is required.

**Error Message** IM-3-DFBADCLASS Format: Bad debug filter class 0x%x

**Explanation** Invalid class of debug filters.

**Recommended Action** No action is required.

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**Error Message** IM-3-ETH\_BAD\_STATS Format: snmp ether stats bad stats

**Explanation** Could not get interface statistics.

**Recommended Action** No action is required.

**Error Message** IM-3-ETH\_STATS\_REQ Format: snmp ether stats bad send

**Explanation** Request to Ethernet driver to update statistics failed. This would lead to incorrect interface statistics value.

**Recommended Action** No action is required.

**Error Message** IM-3-HEAP\_SIZE\_ERROR Format: Increase of heap size from %d to %d failed: %s

**Explanation** IM could not increase the size of the heap.

**Recommended Action** No action is required.

**Error Message** IM-3-IF\_CHANGE\_MASK\_UNKNOWN Format: Unknown if change mask for interface %s %s

**Explanation** Undefined change mask has been specified for the given interface.

**Recommended Action** No action is required.

**Error Message** IM-3-IMTLV\_BAD\_MSGTYPE Format: IM bad tlv message type %d

**Explanation** Unknown message TLV encountered.

**Recommended Action** No action is required.

**Error Message** IM-3-INTADD Format: Interface %s addition failed, %s

**Explanation** Interface could be created due to specified reason.

**Recommended Action** No action is required.

**Error Message** IM-3-INTADDEXIST Format: Interface %s addition failed, %d already exists

**Explanation** Interface currently being added already exists.

**Recommended Action** No action is required.

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**Error Message** IM-3-INTADDFULL Format: Interface %s addition failed, Max. number of interfaces exceeded

**Explanation** Interface could not be configured as Interface Manager has reached its maximum capacity.

**Recommended Action** No action is required.

**Error Message** IM-3-INTADDIFMSG Format: Could not process add interface %lx, %lx, %s

**Explanation** Received a corrupted message from interface driver.

**Recommended Action** No action is required.

**Error Message** IM-3-INTADDPT Format: Interface %s addition failed, phyloc tree addition, reason %d

**Explanation** New interface could not added to internal data structure.

**Recommended Action** No action is required.

**Error Message** IM-3-INTBAD Format: Invalid interface %d for %s

**Explanation** Specified action cannot be take on the interface.

**Recommended Action** No action is required.

**Error Message** IM-3-INTDAMPINIT Format: Interface %s, could not initialize dampening

**Explanation** Interface dampening could not be initialized.

**Recommended Action** No action is required.

**Error Message** IM-3-INTDEL Format: Interface %s deletion failed, %s

**Explanation** Interface could not be deleted due to specified reason.

**Recommended Action** No action is required.

**Error Message** IM-3-INTDELIFMSGMASK Format: Could not process delete interface %lx bad mask %lx

**Explanation** Received a corrupted message from interface driver.

**Recommended Action** No action is required.

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**Error Message** IM-3-INTLSMSG Format: Could not process link state message %lx, %lx, %s

**Explanation** Received a corrupted message from interface driver.

**Recommended Action** No action is required.

**Error Message** IM-3-MQSEND Format: mq\_send() error %s while sending %s queue: %s

**Explanation** Specified message could not be sent to the IM client.

**Recommended Action** No action is required.

**Error Message** IM-3-MQUNEXPECT Format: Recieved unexpected message (%d/%d) on %s queue

**Explanation** Received an unexpected message on the specified message queue.

**Recommended Action** No action is required.

**Error Message** IM-3-MSGPROC Format: Could not process %s message from pid %d

**Explanation** Specified client request could not be completed.

**Recommended Action** No action is required.

**Error Message** IM-3-MTS\_DROP Format: Error returned from mts\_drop(), errno: %s

**Explanation** IM called an MTS API which returned an error.

**Recommended Action** No action is required.

**Error Message** IM-3-MTS\_RECV Format: Error returned from mts\_recv(), errno: %s

**Explanation** IM called an MTS API which returned an error.

**Recommended Action** No action is required.

**Error Message** IM-3-NO\_INTF\_BLOCK Format: Interface block not found while processing %s, iod %d

**Explanation** Interface related internal data structure could be found.

**Recommended Action** No action is required.

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**Error Message** IM-3-SNMPAPIDATA Format: Message data is NULL

**Explanation** SNMP message does not have memory to store data.

**Recommended Action** No action is required.

**Error Message** IM-3-SNMPAPIINIT Format: Function snmpd\_api\_init() was not invoked

**Explanation** SNAMP API is being invoked before it initialization.

**Recommended Action** No action is required.

**Error Message** IM-3-SNOMEM Format: Smalloc (%ld) failed for: %s

**Explanation** Shared memory allocation failed. We are running out of shared memory resources.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IM-3-SONETINTTIMERFAIL Format: Sonet interval timer %s failed on %s

**Explanation** Specified timer could be initialized.

**Recommended Action** No action is required.

**Error Message** IM-3-STATS\_NODE\_BAD Format: Invalid stats node for %s

**Explanation** Encountered invalid request to get/clear statistics.

**Recommended Action** No action is required.

**Error Message** IM-3-STATS\_NODE\_NOT\_FOUND Format: Could not find stats node for %s

**Explanation** Could not find the internal data structure.

**Recommended Action** No action is required.

**Error Message** IM-3-STATSQ\_INIT Format: Failed to initialize stats queue

**Explanation** An internal software error occurred.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

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**Error Message** IM-3-VLANADDPT Format: Could not add Vlan information in tree, reason %d

**Explanation** VLAN interface information could not be added to internal data structure due to specified reason.

**Recommended Action** No action is required.

## IM-6

**Error Message** IM-6-LINEPROTO Format: Line protocol on interface %s changed to state %s

**Explanation** Line protocol on the specified interface has changed.

**Recommended Action** No action is required.

**Error Message** IM-6-MTS\_UNKNOWN\_MSG Format: Received unknown MTS message with opcode %d, dropping it

**Explanation** IM received an unknown MTS message. The message is dropped.

**Recommended Action** No action is required.

## IP Messages

This section contains the IP messages.

## IP-2

**Error Message** IP-2-CRIT\_FAILURE Format: Failed to %s

**Explanation** A critical operation has failed in the IP process.

**Recommended Action** Dump core, and then restart component.

**Error Message** IP-2-IP\_STARTUP\_FAILURE Format: Failed to %s during startup. error %d

**Explanation** A critical operation has failed during startup of the IP process.

**Recommended Action** No action is required.

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## IP-3

**Error Message** IP-3-CV\_INIT Format: Couldn't init cond var %s

**Explanation** IP process failed to initialize conditional-variable resource.  
Parameters: Thread Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** IP-3-INVALID\_IF\_INDEX Format: Invalid interface index received from %d

**Explanation** Invalid interface index received  
Parameters: Thread Name ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IP-3-IP\_CLIENT\_GET Format: HA client filter recovery failed (%d)

**Explanation** HA client filter recovery failed.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IP-3-IP\_CLNT\_FAILURE Format: Invalid IP registration reply. Message major type %d, minor type %d

**Explanation** An IP client has failed in the registration process with IP.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IP-3-IP\_FAILURE Format: Failed to %s

**Explanation** A critical operation has failed in the IP process.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IP-3-IP\_HA\_UPDATE Format: HA update failed (%d)

**Explanation** HA update failed.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** IP-3-IP\_INTERNAL\_ERROR Format: %s

**Explanation** An internal error has occurred in the IP process.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IP-3-IP\_MSG\_TO\_TLV Format: TLV Conversion failed (%d)

**Explanation** TLV conversion failed.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IP-3-IP\_MTSDROP Format: Error returned from mts\_drop(), errno: %s

**Explanation** IP called an MTS API which returned an error.

**Recommended Action** No action is required.

**Error Message** IP-3-IP\_MTSRECV Format: Error returned from mts\_recv(), errno: %s

**Explanation** IP called an MTS API which returned an error.

**Recommended Action** No action is required.

**Error Message** IP-3-IP\_MTSSEND Format: Error returned from mts\_send(), errno: %s

**Explanation** IP called an MTS API which returned an error.

**Recommended Action** No action is required.

**Error Message** IP-3-IP\_NO\_MBUF Format: Failed to allocate mbuf %s

**Explanation** The IP process has run out of network buffers.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IP-3-IP\_NO\_MEM Format: Failed to allocate private memory for %s

**Explanation** The IP process has run out of private memory.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** IP-3-IP\_THR\_CREATE Format: Failed to create %s thread. error %d

**Explanation** A failure occurred while creating a thread.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IP-3-IP\_TLV\_TO\_STRUCT Format: TLV to Struct Conversion failed (%d)

**Explanation** TLV to Struct conversion failed.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IP-3-IP\_UNK\_MSG Format: Unrecognized message major type %d, minor type %d

**Explanation** An unknown message was received from another process.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IP-3-MRIB\_ADD\_ROUTE Format: MRIB add route failed in %s for VRF %s

**Explanation** IP failed to add route in MRIB.  
Parameters: Function Name, Context Name ...

**Recommended Action** No action is required.

**Error Message** IP-3-MRIB\_DELETE\_ROUTE Format: MRIB delete route failed in %s for VRF %s

**Explanation** IP failed to delete route from MRIB.  
Parameters: Function Name, Context Name ...

**Recommended Action** No action is required.

**Error Message** IP-3-MV\_INIT Format: Couldn't init mutex %s

**Explanation** IP process failed to initialize mutex system resource.  
Parameters: Thread Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** IP-3-NO\_SH\_MEM Format: Failed to allocate shared memory %s

**Explanation** The IP process has run out of shared memory.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** IP-3-TXLIST\_CREATE Format: Couldn't create txlist for %s

**Explanation** IP failed to create txlist resource.  
Parameters: Data type ...

**Recommended Action** Dump core, and then restart component.

**Error Message** IP-3-URIB\_ERR Format: Failed to %s urib

**Explanation** A failure occurred in a transaction with URIB.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

## IP-5

**Error Message** IP-5-INVALID\_NOTIFY Format: Received invalid notification message

**Explanation** UNEXPECTED\_ERROR\_EXPLANATION.

**Recommended Action** No action is required.

## IP-6

**Error Message** IP-6-BAD\_ICMP\_PKT Format: Received ICMP packet with bad length (%d).  
Min len %d, Adv len %d, IP hdr length %d, Expected IP hdr len %d

**Explanation** An ICMP packet was received with a bad length.

**Recommended Action** No action is required.

**Error Message** IP-6-IM\_ERROR Format: Failed to get correct information for interface  
%s %d

**Explanation** IP could not get the requested information from interface-mgr.

**Recommended Action** No action is required.

**Error Message** IP-6-IM\_RECOVER\_ERROR Format: Failed to recover correct information  
for interface %s %d

**Explanation** IP could not recover the information for interface.

**Recommended Action** No action is required.

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**Error Message** IP-6-IP\_MTS\_UNKNOWN\_MSG Format: Received unknown MTS message with opcode %d, dropping it

**Explanation** IP received an unknown message. The message is dropped.

**Recommended Action** No action is required.

**Error Message** IP-6-IP\_UNK\_MSG\_MAJOR Format: Unrecognized message from %s. Major type %d

**Explanation** An unknown message (major) was received from another process.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IP-6-IP\_UNK\_MSG\_MINOR Format: Unrecognized message from %s. Minor type %d

**Explanation** An unknown message (minor) was received from another process.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IP-6-MQ\_FLUSH Format: Flushing %d messages from the MRIB message queue

**Explanation** The MRIB message queue was flushed after a restart of the IP process.

**Recommended Action** No action is required.

**Error Message** IP-6-REG\_SEND\_MSG Format: Suppress PIM Data Register for (%s, %s) due to suppression-timer\n

**Explanation** Suppress PIM Data Register due to suppression-timer.  
Parameters: Source address, Group address ...

**Recommended Action** No action is required.

**Error Message** IP-6-STATS\_ERROR Format: Failed to get hardware statistics for interface %s, reason %s

**Explanation** IP could not get the requested statistics from the hardware.

**Recommended Action** No action is required.

**Error Message** IP-6-SYSMAN\_CLEANUP Format: Terminated by SYSMAN cleanup signal %d

**Explanation** The system Manager sent a cleanup signal to IP to exit the process.

**Recommended Action** No action is required.

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## IPV6 Messages

This section contains the IPV6 messages.

### IPV6-2

**Error Message** IPv6-2-RECURSIVE\_LOOP Format: Recursive loop in %s

**Explanation** There is a recursive function calling loop.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IPv6-2-SDB\_CREAT Format: Failed to create shared database

**Explanation** Component API call failed in IPv6.

**Recommended Action** No action is required.

**Error Message** IPv6-2-SDB\_DESTROY Format: Failed to destroy shared database

**Explanation** Component API call failed in IPv6.

**Recommended Action** No action is required.

**Error Message** IPv6-2-SDB\_OPEN Format: Failed to open shared database

**Explanation** Component API call failed in IPv6.

**Recommended Action** No action is required.

### IPV6-3

**Error Message** IPv6-3-BAD\_CONTEXT Format: Bad context-id %d in %s

**Explanation** The context cannot be found.

**Recommended Action** No action is required.

**Error Message** IPv6-3-FRAME\_GT\_PAYLOAD Format: Frame length: %d greater than payload length: %d plus IPv6 header length, truncating packet received on interface %s

**Explanation** Mismatch in the packet's frame length and payload field, trimmed.

**Recommended Action** No action is required.

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**Error Message** IPv6-3-FRAME\_LENGTH\_LONG Format: Frame length: %d greater than maximum IPv6 payload size for packet received on interface %s

**Explanation** The packet has too big frame length, dropped.

**Recommended Action** No action is required.

**Error Message** IPv6-3-FRAME\_LENGTH\_SHORT Format: Frame length: %d less than IPv6 payload length: %d for packet received on interface %s

**Explanation** The packet has invalid frame length, dropped.

**Recommended Action** No action is required.

**Error Message** IPv6-3-GET\_PIB\_FAILED Format: %s failed in %s

**Explanation** IPv6 could not find client's PIB handle.

**Recommended Action** No action is required.

**Error Message** IPv6-3-INVALID\_VERSION Format: Invalid IPv6 version: %d for packet received on interface %s

**Explanation** The packet has invalid protocol version field, dropped.

**Recommended Action** No action is required.

**Error Message** IPv6-3-IPV6\_API\_FAILED Format: %s failed in %s

**Explanation** Component API call failed in IPv6.

**Recommended Action** No action is required.

**Error Message** IPv6-3-IPV6\_CV\_INIT Format: Couldn't init cond var %s

**Explanation** IPv6 process failed to initialize conditional-variable resource.  
Parameters: Thread Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** IPv6-3-IPV6\_MSG\_TO\_TLV Format: TLV Conversion failed (%d)

**Explanation** TLV conversion failed.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** IPv6-3-IPV6\_MTS\_DROP Format: Error returned from mts\_drop(), errno: %s

**Explanation** IPv6 called an MTS API which returned an error.

**Recommended Action** Dump core, and then restart component.

**Error Message** IPv6-3-IPV6\_MTS\_RECV Format: Error returned from mts\_recv(), errno: %s

**Explanation** IPv6 called an MTS API which returned an error.

**Recommended Action** Dump core, and then restart component.

**Error Message** IPv6-3-IPV6\_MTS\_UNKNOWN\_MSG Format: Received unknown MTS message with opcode %d, dropping it

**Explanation** IPv6 received an unknown message. The message is dropped.

**Recommended Action** No action is required.

**Error Message** IPv6-3-IPV6\_MV\_INIT Format: Couldn't init mutex %s

**Explanation** IPv6 process failed to initialize mutex system resource.

Parameters: Thread Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** IPv6-3-IPV6\_TLV\_TO\_STRUCT Format: TLV to Struct Conversion failed (%d)

**Explanation** TLV to Struct conversion failed.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** IPv6-3-IPV6\_TXLIST\_CREATE Format: Couldn't create txlist for %s

**Explanation** IPv6 failed to create txlist resource.

Parameters: Data type ...

**Recommended Action** Dump core, and then restart component.

**Error Message** IPv6-3-M6RIB\_ADD\_ROUTE Format: M6RIB add route failed in %s for VRF %s

**Explanation** IP failed to add route in M6RIB.

Parameters: Function Name, Context Name ...

**Recommended Action** No action is required.

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**Error Message** IPv6-3-MALLOC\_FAILED Format: %s failed in %s

**Explanation** IPv6 process is out of free memory.

**Recommended Action** No action is required.

**Error Message** IPv6-3-MALLOC\_FAILED\_PREFIX Format: %s failed in %s for %s

**Explanation** IPV6 process is out of free memory.

**Recommended Action** No action is required.

**Error Message** IPv6-3-MBUF\_FAILED Format: %s failed in %s (%d bytes)

**Explanation** IPV6 process is out of mbufs.

**Recommended Action** No action is required.

**Error Message** IPv6-3-MQ\_FAILED Format: %s failed in %s, errno: %s

**Explanation** IPv6 failed to access message-queue resource.

**Recommended Action** No action is required.

**Error Message** IPv6-3-MQ\_FAILED\_NAME Format: %s failed in %s for client %s, errno: %s

**Explanation** IPv6 failed to access message-queue resource for the client.

**Recommended Action** No action is required.

**Error Message** IPv6-3-MQ\_FAILED\_PID Format: %s failed in %s to client pid: %d, errno: %s

**Explanation** IPv6 failed to access message-queue resource for the client.

**Recommended Action** No action is required.

**Error Message** IPv6-3-MTS\_FAILED Format: %s failed in %s, errno: %s

**Explanation** IPv6 failed to access mts-queue resource.

**Recommended Action** No action is required.

**Error Message** IPv6-3-MTS\_FAILED\_NAME Format: %s failed in %s for client %s, errno: %s

**Explanation** IPv6 failed to access mts-queue resource for the client.

**Recommended Action** No action is required.

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**Error Message** IPv6-3-MTS\_FAILED\_PID Format: %s failed in %s to client pid: %d, errno: %s

**Explanation** IPv6 failed to access mts-queue resource for the client.

**Recommended Action** No action is required.

**Error Message** IPv6-3-NO\_PIB Format: IPv6 PIB not found for pid: %d/%d

**Explanation** IPv6 could not find client's PIB handle.

**Recommended Action** No action is required.

**Error Message** IPv6-3-PID\_CONFLICT Format: Client is using pid: %d/%d with different extended pid: %d

**Explanation** Multiple clients have same process ids.

**Recommended Action** No action is required.

**Error Message** IPv6-3-PTHREAD\_FAILED Format: %s failed for %s in %s

**Explanation** IPv6 process failed to create a task thread.

**Recommended Action** Dump core, then reload the stack.

**Error Message** IPv6-3-REG\_FAILED Format: Failed to register with IPv6

**Explanation** Component API call failed in IPv6.

**Recommended Action** No action is required.

**Error Message** IPv6-3-SYSMGR\_DISPATCH Format: Error returned from sysmgr\_dispatch(), errno: %s

**Explanation** IPv6 called the system manager API which returned an error.

**Recommended Action** Dump core, and then restart component.

**Error Message** IPv6-3-U6RIB\_BAD\_IPC Format: U6RIB corrupted IPC message suspected

**Explanation** IPv6 process received invalid IPC message from U6RIB.

**Recommended Action** No action is required.

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**Error Message** IPv6-3-UNKNOWN\_MTYPE Format: Unknown mtype: %d/%d opcode %d in %s

**Explanation** IPv6 process received unknown Interprocess message, dropped.

**Recommended Action** No action is required.

## IPV6-6

**Error Message** IPv6-6-IPV6\_STATS\_ERROR Format: Failed to get hardware statistics for interface %s, reason %s

**Explanation** IPv6 could not get the requested statistics from the hardware.

**Recommended Action** No action is required.

**Error Message** IPv6-6-v6\_REG\_SEND\_MSG Format: Suppress PIM6 Data Register for (%s, %s) due to suppression-timer\n

**Explanation** Suppress PIM6 Data Register due to suppression-timer.  
Parameters: Source address, Group address ...

**Recommended Action** No action is required.

## ISIS Messages

This section contains the ISIS messages.

### ISIS-2

**Error Message** ISIS-2-AVL\_FAIL Format: Add to CSNP cache failed: %s - %s

**Explanation** An unexpected but recoverable event has occurred.  
Parameters: Start LSP-ID, End LSP-ID ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** ISIS-2-HOLDDOWN Format: Failed to enable process after sequence number wrap holddown.

**Explanation** An unexpected but recoverable event has occurred.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

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**Error Message** ISIS-2-IIB\_EXT Format: %s extension msg for %s (%d) - %s

**Explanation** An unexpected but recoverable event has occurred.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** ISIS-2-IM\_DEL Format: Delete msg for %s (%d) iib %p - iib iod %d mismatched

**Explanation** An unexpected but recoverable event has occurred.

Parameters: Interface Name, Interface Ordinal, Interface Memory, Interface Memory Ordinal Value  
...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** ISIS-2-LSP\_FREE\_DELINK Format: L%d %s is not on free list

**Explanation** An unexpected but recoverable event has occurred.

Parameters: Level, LSP-ID ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** ISIS-2-LSP\_FREE\_LINK Format: L%d %s is already on free list

**Explanation** An unexpected but recoverable event has occurred.

Parameters: Level, LSP-ID ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** ISIS-2-MCAST\_ADD Format: Failed to add L%d multicast address

**Explanation** Was unable to join to the appropriate multicast group on an interface.

Parameters: Level ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** ISIS-2-MEM\_ERR Format: Insufficient memory for %s

**Explanation** Memory is not available for adding SNP entries

Parameters: Reason ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** ISIS-2-MQRCVD Format: %s thread - message queue receive failure <%d>

**Explanation** An unexpected but recoverable event has occurred.

Parameters: Thread Name, Error Number ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

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**Error Message** ISIS-2-REDIST\_PIB\_SHM Format: Failed to attach to redistributing PIB's SHM %s

**Explanation** An unexpected but recoverable event has occurred.  
Parameters: PIB Name ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** ISIS-2-ROUTE\_BUF\_OVERFLOW Format: %s route buffer overflow at entry %lu\n

**Explanation** An unexpected but recoverable event has occurred.  
Parameters: Address Family, Counter Location ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** ISIS-2-ROUTE\_NOTIFY Format: Route notifications to the RIB are not possible. This will result in stale state in the FIB.

**Explanation** An unexpected but recoverable event has occurred.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** ISIS-2-RUNTIME\_CLEANUP\_FAILURE Format: Unexpected runtime cleanup failure. Failed to %s

**Explanation** An unexpected software error has occurred while cleaning up a sub-component.  
Parameters: Reason ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** ISIS-2-RUNTIME\_INIT\_FAILURE Format: Unexpected runtime initialization failure. Failed to %s

**Explanation** An unexpected software error has occurred while initializing a sub-component.  
Parameters: Reason ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** ISIS-2-STARTUP\_FAILURE Format: Startup failure: Failed to %s

**Explanation** An unrecoverable software error has occurred during startup.  
Parameters: Reason ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

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**Error Message** ISIS-2-SUM\_DIST Format: sum-addr %s/%d has zero route-dist candidate count

**Explanation** An unexpected but recoverable event has occurred.  
Parameters: Summary Address Prefix, Summary Address Mask ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** ISIS-2-TLV\_MIGRATE Format: L%d %s still has TLV during migration

**Explanation** An unexpected but recoverable event has occurred.  
Parameters: Level, LSP-ID ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** ISIS-2-URIB\_ADD\_RNH\_FAILURE Format: Cannot add RNH to %s

**Explanation** An unexpected but recoverable event has occurred.  
Parameters: RIB Address Family ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** ISIS-2-URIB\_UPDATE Format: Failed to notify SPF thread about route update buffer availability

**Explanation** An unexpected but recoverable event has occurred.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

## **ISIS-3**

**Error Message** ISIS-3-AVL\_LOOKUP Format: Can't locate CSNP fragment for %s

**Explanation** SNP cache may get cleaned up during normal operation  
Parameters: LSP-ID ...

**Recommended Action** No action is required.

**Error Message** ISIS-3-BFD\_SESSION\_REMOVE Format: Failed to remove BFD session, error %s

**Explanation** The system is unable to remove BFD sessions.  
Parameters: The system Error ...

**Recommended Action** No action is required.

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**Error Message** ISIS-3-ISIS\_HA\_PSS Format: HA Persistent-store failure for %s %s: %s

**Explanation** A software error has occurred during HA. Stateful HA recovery will be disabled.

**Recommended Action** No action is required.

**Error Message** ISIS-3-LSP\_REFRESH Format: Refresh non-self-originated level-%d LSP %s

**Explanation** An unexpected but recoverable event has occurred.

Parameters: Level, LSP-ID ...

**Recommended Action** No action is required.

**Error Message** ISIS-3-MBUF\_COPY Format: Error 0x%08x copy %hu bytes packet from %s%s

**Explanation** An unexpected but recoverable event has occurred.

**Recommended Action** No action is required.

**Error Message** ISIS-3-MCAST\_DEL Format: Failed to remove L%d multicast address

**Explanation** Was unable to leave from the appropriate multicast group on an interface.

Parameters: Level ...

**Recommended Action** No action is required.

**Error Message** ISIS-3-MTS Format: Error returned from MTS operation %s, errno: %s

**Explanation** ISIS called an MTS API which returned an error.

Parameters: Operation Description, Error Number ...

**Recommended Action** Dump core, and then restart component.

**Error Message** ISIS-3-MTS\_DROP Format: Error returned from mts\_drop(), errno: %s

**Explanation** ISIS called an MTS API which returned an error.

Parameters: Error Number ...

**Recommended Action** Dump core, and then restart component.

**Error Message** ISIS-3-MTS\_RECV Format: Error returned from mts\_recv(), errno: %s

**Explanation** ISIS called an MTS API which returned an error.

Parameters: Error Number ...

**Recommended Action** Dump core, and then restart component.

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**Error Message** ISIS-3-NO\_HELPER\_IIB Format: No helper iib for %s

**Explanation** An unexpected but recoverable event has occurred.  
Parameters: LSP-ID ...

**Recommended Action** No action is required.

**Error Message** ISIS-3-NOTIFY\_THREAD Format: Failed to notify %s thread - Reschedule

**Explanation** An unexpected but recoverable event has occurred.  
Parameters: Thread Name ...

**Recommended Action** No action is required.

**Error Message** ISIS-3-OTV\_INFO Format: Failed to retrieve OTV %s info %s

**Explanation** The system is unable to retrieve OTV information.

**Recommended Action** No action is required.

**Error Message** ISIS-3-OTV\_SITE\_CAP Format: Failed to add/remove otv site/net-id capability conf check, error %s

**Explanation** The system is unable to add conf check.

**Recommended Action** No action is required.

**Error Message** ISIS-3-PIB\_UP Format: Failed to bring up protocol

**Explanation** An unexpected but recoverable event has occurred.

**Recommended Action** No action is required.

**Error Message** ISIS-3-PT\_ADD Format: Couldn't add entry to %s PT

**Explanation** ISIS failed to update a local database entry.  
Parameters: Entry name, Database name ...

**Recommended Action** No action is required.

**Error Message** ISIS-3-PT\_DEL Format: Couldn't delete entry for %s from %s PT

**Explanation** ISIS failed to delete an entry from a local database.  
Parameters: Entry name ...

**Recommended Action** No action is required.

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**Error Message** ISIS-3-RPM\_CALLBACK Format: RPM Callback handle and/or user data missing

**Explanation** An attempt to obtain RPM Keychain information failed.

**Recommended Action** No action is required.

**Error Message** ISIS-3-SELF\_LSP\_CLEANUP Format: Cleanup L%d LSP %s with non-null TLV list

**Explanation** An unexpected but recoverable event has occurred.  
Parameters: Level, LSP-ID ...

**Recommended Action** No action is required.

**Error Message** ISIS-3-SLAB\_ALLOC Format: Slab alloc of type %s failed for %s

**Explanation** ISIS process failed to allocate Slab memory.  
Parameters: Structure Type, Function Name ...

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** ISIS-3-SPF\_ADJ\_DEL Format: Deleting SPF adj with refcount %lu\n

**Explanation** An unexpected but recoverable event has occurred.  
Parameters: RefCount ...

**Recommended Action** No action is required.

**Error Message** ISIS-3-SWID\_UPDATE Format: Switch-ID table update failed for %s

**Explanation** ISIS process failed to update Switch-ID database.  
Parameters: The system ID ...

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** ISIS-3-UNK\_DEB\_FLAG Format: Ignore unrecognized debug flag %s\

**Explanation** An unexpected but recoverable event has occurred.  
Parameters: Debug Flag ...

**Recommended Action** No action is required.

**Error Message** ISIS-3-UNK\_IP\_NOTIF Format: Unrecognized IP address change notification type %lu

**Explanation** An unexpected but recoverable event has occurred.  
Parameters: IP Notification Type ...

**Recommended Action** No action is required.

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**Error Message** ISIS-3-UNK\_LSP\_TIMER Format: Unrecognized LSP timer type %d for level-%d LSP %s

**Explanation** An unexpected but recoverable event has occurred.  
Parameters: Timer Type, Level, LSP-ID ...

**Recommended Action** No action is required.

**Error Message** ISIS-3-UNK\_MSG\_MAJOR Format: %s thread - Unrecognized message major type %d

**Explanation** An unexpected but recoverable event has occurred.  
Parameters: Thread Name, Message Major Type ...

**Recommended Action** No action is required.

**Error Message** ISIS-3-UNK\_MSG\_MINOR Format: Unrecognized %s message minor type %d

**Explanation** An unexpected but recoverable event has occurred.  
Parameters: Component, Message Minor Type ...

**Recommended Action** No action is required.

**Error Message** ISIS-3-UNK\_MTS\_OPC Format: %s thread - Unrecognized MTS opcode %d

**Explanation** An unexpected but recoverable event has occurred.  
Parameters: Thread Name, MTS Opcode ...

**Recommended Action** No action is required.

**Error Message** ISIS-3-UNK\_SYSMGR\_NOTIFY Format: Unexpected registration received from process %u

**Explanation** An unexpected but recoverable event has occurred.  
Parameters: Base Process UUID ...

**Recommended Action** No action is required.

**Error Message** ISIS-3-VLAN\_MGR Format: Error in parsing %s message from VLAN Manager

**Explanation** An unexpected but recoverable event has occurred.  
Parameters: Message Type ...

**Recommended Action** No action is required.

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**Error Message** ISIS-3-WEIRD\_CACHE Format: Inconsistent cache %x %s %s

**Explanation** An unexpected but recoverable event has occurred.  
Parameters: Cache Memory Location, Start LSP-ID, End LSP-ID ...

**Recommended Action** No action is required.

**ISIS-4**

**Error Message** ISIS-4-ADD\_DEL\_URIIB\_ERR Format: Failed to %s %lu %s route(s) xid %lu to URIIB

**Explanation** IS-IS failed to update route information into URIIB  
Parameters: Add/Delete, Route Count, Route Type, Transaction ID ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** ISIS-4-ADD\_UNK\_NH\_ADDR Format: Attempt to add for L%d %s/%d on %s with unknown (zero) NH address

**Explanation** IS-IS has detected one or more routers at the same level to have a different set of address families enabled.  
Parameters: Level, Address Prefix, Mask, Interface Name ...

**Recommended Action** Configure all IS-IS routers at the same level to have the same address families enabled using the command address-family ip/ipv6 unicast.

**Error Message** ISIS-4-ADJ\_ADVT Format: Failed to advertise level %d adjacency %s

**Explanation** IS-IS was unable to advertise the indicated adjacency.  
Parameters: Level,Adjacency ID ...

**Recommended Action** No action is required.

**Error Message** ISIS-4-ILLEGAL\_PREFIX Format: Ignore internal L%d route %s/%d with external metric from %s

**Explanation** IS-IS has detected an internal route advertised with external metric, which is an illegal combination, by a router within the network  
Parameters: Level, Address Prefix, Mask, LSP Id ...

**Recommended Action** You must correct the remote system that is generating the incorrect information. Either reconfigure the remote system or update the system software to a version that does not originate incorrect information.

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**Error Message** ISIS-4-LAN\_DUP\_SYSID Format: L%d LAN IIH - Duplicate system ID %s detected over %s from %s

**Explanation** IS-IS has detected another system on the indicated LAN that is reusing the local system ID

Parameters: Level, The system ID, Interface Name, MAC ID ...

**Recommended Action** Configure either the local or remote router with a different system ID using the command net.

**Error Message** ISIS-4-LSP\_DUP\_SYSID Format: L%d LSP - Possible duplicate system ID %s detected

**Explanation** IS-IS has detected another non-directly connected system that is reusing the local system ID.

Parameters: Level, The system ID ...

**Recommended Action** Configure either the local or remote router with a different system ID using the command net.

**Error Message** ISIS-4-LSPFULL Format: L%d %s LSP space is full

**Explanation** There is no storage space left for routing information in the router's LSP

Parameters: Level, LSP Type ...

**Recommended Action** Configure IS-IS so that less information will be distributed in the router's LSP, for example by reducing redistributed prefixes.

**Error Message** ISIS-4-LSPFULL\_FAILED\_DROP Format: L%d %s LSP is full and couldn't remove lower priority TLVs to make room for type %d TLV

**Explanation** There is no storage space left for routing information in the router's LSP, and an attempt to drop lower priority information has failed.'

Parameters: Level, LSP Type, TLV Type ...

**Recommended Action** Configure IS-IS so that less information will be distributed in the router's LSP, for example by reducing redistributed prefixes.

**Error Message** ISIS-4-LSPFULL\_FORCED\_DROP Format: L%d %s LSP is full, removed lower priority TLVs to make room for type %d TLV

**Explanation** There was no storage space left for important routing information in the router's LSP, and so lower priority information (e.g., redistributed prefixes) has been dropped to make room.'

Parameters: Level, LSP Type, TLV Type ...

**Recommended Action** Configure IS-IS so that less information will be distributed in the router's LSP, for example by reducing redistributed prefixes.

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**Error Message** ISIS-4-NO\_CID Format: Cannot allocate CID for %s\n - Over 255 LANs limit

**Explanation** IS-IS has been enabled on more than 255 broadcast interfaces and thus exceeded the protocol mandated limitation. Interfaces that are enabled beyond 255 will be ignored internally until the total count drops below 255.

Parameters: Interface Name ...

**Recommended Action** Disable IS-IS on one or more broadcast interfaces using the command `no ip router isis`, or convert the interface to point-to-point mode. using the CLI command `medium p2p` followed by `ip router isis`.

**Error Message** ISIS-4-NO\_MEM Format: No memory event detected

**Explanation** An attempt to allocate from free memory failed.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** ISIS-4-P2P\_DUP\_SYSID Format: P2P ITH - Duplicate system ID %s detected over %s

**Explanation** IS-IS has detected another system on the indicated P2P that is reusing the local system ID.

Parameters: The system ID, Interface Name ...

**Recommended Action** Configure either the local or remote router with a different system ID using the command `net`.

**Error Message** ISIS-4-PROC\_NO\_MEM Format: No memory event, shutting down process

**Explanation** Previously an allocation failed due to no available memory. IS-IS will shut down and wait for user to restart it.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** ISIS-4-REDIST\_MAX\_ROUTE Format: Redistribution route limit has been reached - %d routes

**Explanation** ISIS redistribuTion: Max limit

Parameters: Number of routes ...

**Recommended Action** No action is required.

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**Error Message** ISIS-4-REDIST\_THR\_ROUTE Format: Redistribution threshold has been reached - %d routes

**Explanation** ISIS redistRIBution: Threshold limit  
Parameters: Number of routes ...

**Recommended Action** No action is required.

**Error Message** ISIS-4-SEQWRAP Format: Sequence number wraparound event detected

**Explanation** IS-IS has detected that an LSP's sequence number has wrapped. IS-IS will shut down and restart.

**Recommended Action** No action is required.

## **ISIS-5**

**Error Message** ISIS-5-ADJCHANGE Format: %s adj L%s %s over %s - %s on MT-%d

**Explanation** The indicated adjacency has changed its state.  
Parameters: Interface Type, Level, The system ID, Interface Name, Reason ...

**Recommended Action** No action is required.

**Error Message** ISIS-5-NH\_DEL Format: Cleanup L%d route %s/%d has %s next hop

**Explanation** An unexpected but recoverable event has occurred.  
Parameters: Level, Address Prefix, Mask, Type ...

**Recommended Action** No action is required.

**Error Message** ISIS-5-PROC\_SEQWRAP Format: Handle sequence number wraparound - disabling process for %d secs

**Explanation** An LSP's sequence number has wrapped, and the process will be disabled for the correct length of time.  
Parameters: Time ...

**Recommended Action** No action is required.

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## ISIS-6

**Error Message** ISIS-6-JUMBO\_PDU Format: Drop %hu bytes jumbo PDU with %hu bytes buffer from %s%

**Explanation** IS-IS has received a packet that exceeds the maximum supported size. The packet will be dropped.

Parameters: Packet Length,PDU Maximum Size, Interface Name, Source Destination Addr ...

**Recommended Action** No action is required.

**Error Message** ISIS-6-MODE\_NO\_FUNC Format: No callback function registered for %s in %s mode

**Explanation** IS-IS encountered a problem where no callback function has been registered in the given mode

Parameters: Function name, Mode name ...

**Recommended Action** No action is required.

**Error Message** ISIS-6-SEQWRAP\_HOLDDOWN Format: Sequence number wraparound holddown timer expired - enable process

**Explanation** The correct amount of time has elapsed after an LSP's sequence number wrapped so that IS-IS can resume normal operation.

**Recommended Action** No action is required.

**Error Message** ISIS-6-SHUTDOWN\_FAILURE Format: Shutdown failure. Failed to %s - %s ; Parameters: Reason, Reason Code ...

**Explanation** IS-IS request to system manager for permission to shutdown was declined.

**Recommended Action** No action is required.

**Error Message** ISIS-6-START Format: Process start. Reason - %s

**Explanation** ISIS process start with specified reason

Parameters: Reason ...

**Recommended Action** No action is required.

**Error Message** ISIS-6-STOP Format: Process stop. Reason - %s

**Explanation** ISIS process stop with specified reason

Parameters: Reason ...

**Recommended Action** No action is required.

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**Error Message** ISIS-6-SYSMAN\_CLEANUP Format: Terminated by SYSMAN cleanup signal ;  
Explanation: IS-IS has been signaled to exit.

**Explanation** The system has detected an error.

**Recommended Action** No action is required.

**Error Message** ISIS-6-UNK\_NLPID Format: Unrecognized NLP ID %02X from %s%s

**Explanation** IS-IS has received a packet with an NLPID which it does not recognize. The packet will be dropped.

Parameters: NLP Id, Interface Name, Source Destination Addr ...

**Recommended Action** No action is required.

**Error Message** ISIS-6-UNK\_PDU Format: Unrecognized PDU type %d from %s%s

**Explanation** IS-IS has received a packet of a type which it does not recognize. The packet will be dropped.

Parameters: PDU Type, Source Addr, Destination Addr ...

**Recommended Action** No action is required.

## KSINK Messages

This section contains the KSINK messages.

### KSINK-3

**Error Message** KSINK-3-API\_FAILED Format: %s - failed in %s()

**Explanation** ksink called an API that has failed

Parameters: Failed Operation, ksink Function ...

**Recommended Action** No action is required.

**Error Message** KSINK-3-API\_FAILED\_HA Format: %s - %s:No access to PSS database %p,  
data file: %s, uri: %s

**Explanation** ksink called an API that has failed

Parameters: Failed Operation, ksink Function ...

**Recommended Action** No action is required.

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**Error Message** KSINK-3-BUF\_POOL Format: Pool 0x%p: double free of 0x%p attempted

**Explanation** Double free of buffer pool.

**Recommended Action** No action is required.

**Error Message** KSINK-3-HA\_INVALID\_INDEX Format: HA %s sync message received for unknown PSS index %d

**Explanation** HA synchronization message from active SUP references invalid PSS index.

**Recommended Action** No action is required.

**Error Message** KSINK-3-INVALID\_ARG Format: invalid arguments - %s - in %s()

**Explanation** Invalid arguments passed in an ksink function  
Parameters: Invalid Argument, ksink Function ...

**Recommended Action** No action is required.

**Error Message** KSINK-3-MEM\_ALLOC Format: Malloc Failure in %s[%d] for size %d

**Explanation** Failed to allocate memory.

**Recommended Action** No action is required.

**Error Message** KSINK-3-MEM\_LOCK Format: mlockall failed, error %s

**Explanation** mmap API returned failure.

**Recommended Action** No action is required.

**Error Message** KSINK-3-MTS Format: Error returned from %s, errno: 0x%08x (%s) in %s()

**Explanation** ksink called an MTS API which returned an error.  
Parameters: Failed API, Error Code, Error Description, ksink Function ...

**Recommended Action** No action is required.

**Error Message** KSINK-3-PSS\_CLOSE Format: Could not close PSS file, %s

**Explanation** PSS API which returned an error.

**Recommended Action** No action is required.

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**Error Message** KSINK-3-PSS\_CREATE Format: Could not create PSS file %s, %s

**Explanation** PSS API which returned an error.

**Recommended Action** No action is required.

**Error Message** KSINK-3-PSS\_DELETE Format: PSS delete failed, %s

**Explanation** PSS API which returned an error.

**Recommended Action** No action is required.

**Error Message** KSINK-3-PSS\_DELETE\_RANGE Format: PSS delete range failed, %s

**Explanation** PSS API which returned an error.

**Recommended Action** No action is required.

**Error Message** KSINK-3-PSS\_DESTROY Format: Could not destroy PSS file %s, %s

**Explanation** PSS API which returned an error.

**Recommended Action** No action is required.

**Error Message** KSINK-3-PSS\_GETPARAM Format: Could not retrieve PSS parameters, %s

**Explanation** PSS API which returned an error.

**Recommended Action** No action is required.

**Error Message** KSINK-3-PSS\_HA Format: %s, %s

**Explanation** PSS API which returned an error.

**Recommended Action** No action is required.

**Error Message** KSINK-3-PSS\_OPEN Format: Could not open PSS file %s, %s

**Explanation** PSS API which returned an error.

**Recommended Action** No action is required.

**Error Message** KSINK-3-PSS\_PURGE Format: PSS purge failed, %s

**Explanation** PSS API which returned an error.

**Recommended Action** No action is required.

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**Error Message** KSINK-3-PSS\_SET\_DBSIZE Format: Could not set database size %d for PSS file %s, %s

**Explanation** PSS API which returned an error.

**Recommended Action** No action is required.

**Error Message** KSINK-3-PSS\_SNAPSHOT Format: PSS snapshot failed for %s, %s

**Explanation** PSS API which returned an error.

**Recommended Action** No action is required.

**Error Message** KSINK-3-PSS\_UPDATE Format: PSS update failed, %s

**Explanation** PSS API returned an error.

**Recommended Action** No action is required.

**Error Message** KSINK-3-RANDOM\_SEED Format: Failed to set random seed

**Explanation** random seed API returned failure.

**Recommended Action** No action is required.

**Error Message** KSINK-3-RRM Format: Error returned from %s, errno: 0x%08x (%s) in %s()

**Explanation** ksink called an resource manager API which returned an error.  
Parameters: Failed API, Error Code, Error Description, ksink Function ...

**Recommended Action** No action is required.

**Error Message** KSINK-3-SETRLIMIT Format: Failed to open client shared memory %s\ : %s

**Explanation** The calling process failed with the shown error while trying to open the named U6RIB shared memory region. The status of the memory is shown in 'show process memory shared'.  
Parameters: Name of shared memory region ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** KSINK-3-TBUCKET Format: current time: %f , last update: %f

**Explanation** time stamp API returned an error.

**Recommended Action** No action is required.

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## KSINK-6

**Error Message** KSINK-6-HA\_SEQNO\_SYNC Format: HA sequence number sync to standby failed, %s

**Explanation** HA sequence number synchronization to standby failed.

**Recommended Action** No action is required.

**Error Message** KSINK-6-HA\_SYNC Format: HA sync to standby failed, %s

**Explanation** HA synchronization message to standby failed.

**Recommended Action** No action is required.

**Error Message** KSINK-6-HA\_UNINITIALIZED Format: ksink HA library not initialized, %s invoked

**Explanation** Service should provide its own high availability switchover callbacks.

**Recommended Action** No action is required.

**Error Message** KSINK-6-MTS\_UNK\_OPC Format: Received unknown MTS message on %s queue with opcode %d

**Explanation** URIB received an unknown message. The message is dropped.

**Recommended Action** No action is required.

## L2F Messages

This section contains the L2F messages.

### L2F-2

**Error Message** L2F-2-APIINIT Format: Unable to initialize %s API

**Explanation** As self-explained by the message itself.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

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**Error Message** L2F-2-APIREGISTER Format: Unable to register with %s

**Explanation** As self-explained by the message itself.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** L2F-2-SHMATTACH Format: Unable to attach to shared memory %s

**Explanation** As self-explained by the message itself.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** L2F-2-SHMCREATE Format: Unable to create shared memory %s error %d

**Explanation** As self-explained by the message itself.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** L2F-2-SUPERADD Format: Unable to add super member %s to %s

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-2-THRCREATE Format: unable to create thread %s: %d

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**L2F-3**

**Error Message** L2F-3-BADSIG Format: Should not have received signal %d

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-3-CREATENBR Format: Couldn't add neighbor %s on %s error %d

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

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**Error Message** L2F-3-DELETEIF Format: Could not delete interface on %s error %d

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-3-DISABLEIF Format: Could not disable interface on %s error %d

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-3-ENABLEIF Format: Could not enable interface on %s error %d

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-3-ERROR Format: %s

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-3-GETHOSTNAME Format: gethostname() failed with errno %d

**Explanation** As self-explained by the message itself.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** L2F-3-IF\_CLR\_EXT\_FAIL Format: Could not clear interface on %s

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-3-IF\_SET\_EXT\_FAIL Format: Could not set interface on %s

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-3-INIT Format: L2F initialization failed %s

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

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**Error Message** L2F-3-MSGBADADMINOR Format: Unrecognized minor message %d

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-3-MTS\_BIND Format: Error returned from mts\_bind() for %s, errno: %s

**Explanation** L2F called an MTS API which returned an error.

**Recommended Action** Dump core, and then restart component.

**Error Message** L2F-3-MTS\_DROP Format: Error returned from mts\_drop(), errno: %s

**Explanation** L2F called an MTS API which returned an error.

**Recommended Action** Dump core, and then restart component.

**Error Message** L2F-3-MTS\_RECV Format: Error returned from mts\_recv(), errno: %s

**Explanation** L2F called an MTS API which returned an error.

**Recommended Action** Dump core, and then restart component.

**Error Message** L2F-3-MTS\_UNKNOWN\_MSG Format: Unknown error returned from MTS, errno: %d

**Explanation** L2F called an MTS API which returned an unknown error.

**Recommended Action** Dump core, and then restart component.

**Error Message** L2F-3-NOMEM Format: malloc (%d) failed for: %s

**Explanation** As self-explained by the message itself.

**Recommended Action** add more memory to the router.

**Error Message** L2F-3-RXCHKSUM Format: Bad checksum packet on interface %s

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

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**Error Message** L2F-3-RXCOPY Format: Copy packet error 0x%08x copy %hu bytes packet from %s:%s

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-3-RXJUMBO Format: Jumbo packet %hu bytes jumbo PDU with %hu bytes buffer from %s:%s

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-3-RXPARSE\_BAD\_IM\_IOD Format: packets received from invalid interface (possibly just deleted)

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-3-RXPARSE\_BAD\_L2F Format: packets received from invalid L2F interface (possibly just deleted)

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-3-RXPARSE\_BAD\_NBR\_TLV Format: Bad-formed neighbor name TLV

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-3-RXPARSE\_BAD\_ROUTER\_TLV Format: Bad-formed router name TLV

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-3-RXPARSE\_ETHER\_ADDR\_TLV\_LEN Format: Bad Ethernet Address TLV in packet, len = %d

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

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**Error Message** L2F-3-RXPARSE\_ETHER\_ADDR\_TLV\_NONE Format: No Ethernet Address TLV in packet

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-3-RXPARSE\_NBR\_TLV\_LEN Format: Bad Neighbor Name TLV in packet, len = %d

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-3-RXPARSE\_NBR\_TLV\_NULL\_TERM Format: Neighbor Name TLV is not NULL terminated

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-3-RXPARSE\_ROUTER\_TLV\_DUP Format: Duplicate Router Name TLV in packet

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-3-RXPARSE\_ROUTER\_TLV\_LEN Format: Bad Router Name TLV in packet, len = %d

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-3-RXPARSE\_ROUTER\_TLV\_NONE Format: No Router Name TLV in packet

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-3-RXPARSE\_ROUTER\_TLV\_NULL\_TERM Format: Router Name TLV is not NULL terminated

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

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**Error Message** L2F-3-RXPARSE\_ROUTER\_TLV\_OURS Format: Misconfigured router, has our name %s

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-3-RXTRUNC Format: Received truncated packet, expected %hu bytes, got %hu bytes from %s:%s

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-3-SYSMGR\_DISPATCH Format: Error returned from sysmgr\_dispatch(), errno: %s

**Explanation** L2F called the system manager API which returned an error.

**Recommended Action** Dump core, and then restart component.

**Error Message** L2F-3-TXCOPY Format: Copy packet error 0x%08x copy %hu bytes

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-3-TXENCAP\_FAIL Format: Encapsulation failed on interface %d

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-3-TXOUTPUT\_FAIL Format: Output failed on interface %d

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

## L2F-6

**Error Message** L2F-6-BFINIT Format: Can't initialize plp debugging bits

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

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**Error Message** L2F-6-INFORMATION Format: %s

**Explanation** Informational messages as self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** L2F-6-PKTBUFFER Format: %s

**Explanation** As self-explained by the message itself.

**Recommended Action** No action is required.

## L3VM Messages

This section contains the L3VM messages.

### L3VM-2

**Error Message** L3VM-2-STARTUP\_FAILURE Format: Startup failure: failed to %s in %s()

**Explanation** An unrecoverable software error has occurred during l3vm startup.  
Parameters: Startup Operation, L3vm Function ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** L3VM-2-TIB\_ID\_RAVL Format: %s failed with table id 0x%08x in %s()

**Explanation** L3vm called an AVL API that has failed  
Parameters: Failed Operation, Table Id, L3vm Function ...

**Recommended Action** No action is required.

### L3VM-3

**Error Message** L3VM-3-API\_FAILED Format: %s - failed in %s()

**Explanation** L3vm called an API that has failed  
Parameters: Failed Operation, L3vm Function ...

**Recommended Action** No action is required.

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**Error Message** L3VM-3-ASSERT\_ERROR Format: %s:%d: Assertion \"%s\" failed.

**Explanation** The system has detected an error.  
Parameters: Filename, Line number, Test ...

**Recommended Action** No action is required.

**Error Message** L3VM-3-CLIENT\_UNREGISTERED Format: %s() - Client not registered

**Explanation** Client has not registered its mts queue with l3vm library  
Parameters: L3vm Function ...

**Recommended Action** No action is required.

**Error Message** L3VM-3-CMI\_MTSEND\_FAILURE Format: mts\_send() failure for client %s:  
%s

**Explanation** L3VM was unable to send mts message to a particular client.  
Parameters: Client name, Error ...

**Recommended Action** No action is required.

**Error Message** L3VM-3-CMI\_PAYLOAD\_CONV\_ERR Format: CMI payload conversion error  
failure from %s order to %s order

**Explanation** The cmi payload conversion did not occur successfully.  
Parameters: order, order ...

**Recommended Action** No action is required.

**Error Message** L3VM-3-CONFCHECK Format: confcheck API %s() failed with error:  
%s(0x%08x).\n

**Explanation** confcheck API failed.

**Recommended Action** No action is required.

**Error Message** L3VM-3-CONTEXT Format: Cannot find %s context in %s()

**Explanation** Cannot find a given context in the system  
Parameters: L3vm context, L3vm Function ...

**Recommended Action** No action is required.

**Error Message** L3VM-3-IM Format: Error returned from %s, errno: 0x%08x (%s) in %s()

**Explanation** L3VM called a IM API which returned an error.  
Parameters: Failed API, Error Code, Error Description, L3vm Function ...

**Recommended Action** No action is required.

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**Error Message** L3VM-3-INVALID\_ARG Format: invalid arguments - %s - in %s()

**Explanation** Invalid arguments passed in an l3vm function  
Parameters: Invalid Argument, L3vm Function ...

**Recommended Action** No action is required.

**Error Message** L3VM-3-LIB\_INVALID\_ARG Format: invalid arguments - %s - in %s()

**Explanation** Invalid arguments passed in an l3vm function  
Parameters: Invalid Argument, L3vm Function ...

**Recommended Action** No action is required.

**Error Message** L3VM-3-LIB\_NOMEM Format: Failed to allocate %s in %s()

**Explanation** L3VM library has run out of memory. This can be caused by a general network or router misconfiguration, or the router might not have enough memory installed.  
Parameters: Allcated Data, L3vm Function ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** L3VM-3-LIBAPI\_FAILED Format: %s - failed in %s()

**Explanation** L3vm called an API that has failed  
Parameters: Failed Operation, L3vm Function ...

**Recommended Action** No action is required.

**Error Message** L3VM-3-LIBMTS Format: Error returned from %s, errno: 0x%08x (%s) in %s()

**Explanation** L3VM library called an MTS API which returned an error.  
Parameters: Failed API, Error Code, Error Description, L3vm Function ...

**Recommended Action** No action is required.

**Error Message** L3VM-3-MTS Format: Error returned from %s, errno: 0x%08x (%s) in %s()

**Explanation** L3VM called an MTS API which returned an error.  
Parameters: Failed API, Error Code, Error Description, L3vm Function ...

**Recommended Action** No action is required.

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**Error Message** L3VM-3-MTS\_DROP Format: Error returned from mts\_drop(), error: %s

**Explanation** An MTS API returned an error when L3VM tried to drop a message.  
Parameters: Error String ...

**Recommended Action** No action is required.

**Error Message** L3VM-3-MTS\_NO\_PAYLOAD\_ERROR Format: Received MTS message with no payload on %s queue with opcode %d, dropping it

**Explanation** L3VM received an unknown message. The message is dropped.

**Recommended Action** No action is required.

**Error Message** L3VM-3-NOMEM Format: Failed to allocate %s in %s()

**Explanation** L3VM has run out of memory. This can be caused by a general network or router misconfiguration, or the router might not have enough memory installed.  
Parameters: Allcated Data, L3vm Function ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** L3VM-3-PENDING\_SDB\_WRITE Format: SDB write operation is pending for %s in %s()

**Explanation** L3VM discovered that there is a pending sdb operation  
Parameters: Pending Key, L3vm Function ...

**Recommended Action** No action is required.

**Error Message** L3VM-3-PSS Format: Error returned from %s, errno: 0x%08x (%s) in %s()

**Explanation** L3VM called a PSS API which returned an error.  
Parameters: Failed API, Error Code, Error Description, L3vm Function ...

**Recommended Action** No action is required.

**Error Message** L3VM-3-RRM Format: Error returned from %s, errno: 0x%08x (%s) in %s()

**Explanation** L3VM called an resource manager API which returned an error.  
Parameters: Failed API, Error Code, Error Description, L3vm Function ...

**Recommended Action** No action is required.

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**Error Message** L3VM-3-SDB Format: Error returned from %s, errno: 0x%08x (%s) in %s()

**Explanation** L3VM called an SDB API which returned an error.  
Parameters: Failed API, Error Code, Error Description, L3vm Function ...

**Recommended Action** No action is required.

**Error Message** L3VM-3-SDB\_OPEN Format: Error opening %s, errno: 0x%08x (%s) in %s()

**Explanation** L3VM called sdb\_open which returned an error.  
Parameters: Failed URI, Error Code, Error Description, L3vm Function ...

**Recommended Action** No action is required.

**Error Message** L3VM-3-SDB\_READ Format: Error reading %s, errno: 0x%08x (%s) in %s()

**Explanation** L3VM called sdb\_read which returned an error.  
Parameters: Failed Key, Error Code, Error Description, L3vm Function ...

**Recommended Action** No action is required.

**Error Message** L3VM-3-SYSMGR Format: Error returned from %s, errno: 0x%08x (%s) in %s()

**Explanation** L3VM called a system manager API which returned an error.  
Parameters: Failed API, Error Code, Error Description, L3vm Function ...

**Recommended Action** No action is required.

**Error Message** L3VM-3-TLVU\_API\_FAIL Format: TLVU failure: %s

**Explanation** L3VM process failed in invoking a TLVU API.  
Parameters: Function ...

**Recommended Action** No action is required.

**Error Message** L3VM-3-VDC Format: Error returned from %s in %s()

**Explanation** L3VM called an VDC API which returned an error.  
Parameters: Failed API, L3vm Function ...

**Recommended Action** No action is required.

**Error Message** L3VM-3-VRF\_ERROR Format: %s: %s

**Explanation** Illegal operation or command on a VRF  
Parameters: VRF name, Failed Operation ...

**Recommended Action** No action is required.

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## L3VM-4

**Error Message** L3VM-4-STATE\_MISMATCH Format: state mismatch - %s - in %s()

**Explanation** L3VM was in an unexpected state  
Parameters: Name of state, L3vm Function ...

**Recommended Action** No action is required.

## L3VM-5

**Error Message** L3VM-5-UNK\_MSG\_MINOR Format: Unrecognized message minor type %d in %s()

**Explanation** L3vm received an unrecognized MTS message format  
Parameters: Message Minor Type, L3vm Function ...

**Recommended Action** No action is required.

**Error Message** L3VM-5-UNK\_MTS\_EVENT Format: Unrecognized MTS event for opcode %d in %s()

**Explanation** L3vm received an unexpected event on an MTS message  
Parameters: MTS opcode, L3vm Function ...

**Recommended Action** No action is required.

**Error Message** L3VM-5-UNK\_MTS\_OPC Format: Unrecognized MTS opcode %d in %s()

**Explanation** L3vm received an unexpected MTS message opcode  
Parameters: MTS opcode, L3vm Function ...

**Recommended Action** No action is required.

## L3VM-6

**Error Message** L3VM-6-RESTART\_SHUTDOWN Format: L3VM shutting self down via restart command in %s()

**Explanation** L3VM process is shutting itself down  
Parameters: L3vm Function ...

**Recommended Action** No action is required.

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**Error Message** L3VM-6-UNKNOWN\_SDB\_CTX Format: L3VM received unknown gsdb context 0x%08x in %s()

**Explanation** L3VM process received ack for unknown operation on global database  
Parameters: GSDB Context, L3vm Function ...

**Recommended Action** No action is required.

## LDP Messages

This section contains the LDP messages.

### LDP-2

**Error Message** LDP-2-INITFAIL Format: Failure to create/initialize %s

**Explanation** During startup there were problems initializing local resources (data structures, MQ, shared memory).

**Recommended Action** No action is required.

**Error Message** LDP-2-REGISTERFAIL Format: Failure to communicate with other components, error: %s failure

**Explanation** During startup there were problems in establishing communication channels with other components.

**Recommended Action** No action is required.

**Error Message** LDP-2-THREADFAIL Format: Error creating thread %s (error %d)

**Explanation** LDP was unable to spawn a thread. The thread name and the error is printed in the message.

**Recommended Action** No action is required.

### LDP-3

**Error Message** LDP-3-ALLOCFAIL Format: Failure to allocate %s (%s)

**Explanation** LDP encountered a memory allocation failure.

**Recommended Action** No action is required.

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**Error Message** LDP-3-APIFAIL Format: Failed API call to %s for %s (%s)

**Explanation** An API call of the mentioned component failed. Information about the API call is printed in the syslog message.

**Recommended Action** No action is required.

**Error Message** LDP-3-BADARG Format: Bad argument error: %s

**Explanation** A function call received an unexpected argument.

**Recommended Action** No action is required.

**Error Message** LDP-3-BADMSG Format: BAD IPC message: %s

**Explanation** LDP received a message which has incorrect or unexpected information.

**Recommended Action** No action is required.

**Error Message** LDP-3-FECLIST Format: Error: %s, FEC: %s

**Explanation** Error in adding/removing FEC struction from local data structures.

**Recommended Action** No action is required.

**Error Message** LDP-3-FECNHUPD Format: Unable to add/update FEC Next-Hop information for FEC %s

**Explanation** The system is unable to create downstream label binding data structure (FEC NH).

**Recommended Action** No action is required.

**Error Message** LDP-3-HALTPEERS Format: Unable to allocate memory for operation, shutting down all sessions

**Explanation** LDP is halts all peers when it runs out of memory. This message indicates this no memory condition.

**Recommended Action** No action is required.

**Error Message** LDP-3-LISTERR Format: List Error: %s, operation: %s

**Explanation** LDP encountered an error in its internal list manipulation function.

**Recommended Action** No action is required.

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**Error Message** LDP-3-MBUFFAIL Format: MBUF failure: %s

**Explanation** LDP encountered an error while performing MBUF operation.

**Recommended Action** No action is required.

**Error Message** LDP-3-MISCERR Format: Miscellaneous error: %s

**Explanation** These are miscellaneous errors. The message explains it all.

**Recommended Action** No action is required.

**Error Message** LDP-3-MQSENDERR Format: Unable to send message, MQ name: %s

**Explanation** LDP is unable to send an IPC message to the specified message queue.

**Recommended Action** No action is required.

**Error Message** LDP-3-MTS\_BIND Format: Error returned from mts\_bind(), errno: %s

**Explanation** LDP called an MTS API which returned an error.

**Recommended Action** Dump core, and then restart component.

**Error Message** LDP-3-MTS\_DROP Format: Error returned from mts\_drop(), errno: %s

**Explanation** LDP called an MTS API which returned an error.

**Recommended Action** Dump core, and then restart component.

**Error Message** LDP-3-MTS\_RECV Format: Error returned from mts\_recv(), errno: %s

**Explanation** LDP called an MTS API which returned an error.

**Recommended Action** Dump core, and then restart component.

**Error Message** LDP-3-MTS\_UNKNOWN\_MSG Format: Unknown error returned from MTS, errno: %d

**Explanation** LDP called an MTS API which returned an unknown error.

**Recommended Action** Dump core, and then restart component.

**Error Message** LDP-3-PCLERR Format: PCL error: %s, PCL name: %s

**Explanation** Error in PCL processing, error string indicates the specific error and the PCL name.

**Recommended Action** No action is required.

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**Error Message** LDP-3-PWEREGFAIL Format: PWE3 registration failed: %s

**Explanation** PWE could not talk to LDP, reason specified in message.

**Recommended Action** No action is required.

**Error Message** LDP-3-SESSERR Format: Session Error: %s, session %s

**Explanation** LDP encountered an error when talking with a particular neighbor.

**Recommended Action** No action is required.

**Error Message** LDP-3-SESSFECERR Format: Unable to insert FEC %s from %s to session  
FEC db

**Explanation** Error in inserting downstream label binding information in local data structure.

**Recommended Action** No action is required.

**Error Message** LDP-3-SESSLIST Format: Error: %s, Session: %s

**Explanation** Error in adding/removing session structure from local data structures.

**Recommended Action** No action is required.

**Error Message** LDP-3-SESSNHERR Format: Unable to create session next-hop for session  
%s

**Explanation** Unable creating next hop information given by this neighbor.

**Recommended Action** No action is required.

**Error Message** LDP-3-SNMPFILLFAIL Format: SNMP failure, failed to fill %s in %s  
request

**Explanation** LDP encountered an error while trying to fill a response to an SNMP query.

**Recommended Action** No action is required.

**Error Message** LDP-3-SOCKETERR Format: Socket Error: %s, Socket: %d, Session: %s,  
Errno: %d

**Explanation** LDP encountered an error when performing a socket operation.

**Recommended Action** No action is required.

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**Error Message** LDP-3-SYSMGR\_DISPATCH Format: Error returned from sysmgr\_dispatch(),  
errno: %s

**Explanation** LDP called the system manager API which returned an error.

**Recommended Action** Dump core, and then restart component.

**Error Message** LDP-3-UDPLENERR Format: Wrong UDP length %d

**Explanation** LDP received a corrupt UDP message with a wrong length.

**Recommended Action** No action is required.

**Error Message** LDP-3-UNKNOWNMSG Format: Received unknown IPC message major/minor:  
%d:%d

**Explanation** LDP received an IPC message which it does not know how to handle. It ignores this message.

**Recommended Action** No action is required.

**LDP-4**

**Error Message** LDP-4-DUPLABEL Format: Neighbor advertised duplicate label for PW FEC  
%s

**Explanation** LDP received a duplicate label for a FEC from a peer.

**Recommended Action** No action is required.

**Error Message** LDP-4-LABELERR Format: Received label release without label from  
session %s

**Explanation** LDP received a label release without a label from peer.

**Recommended Action** No action is required.

**Error Message** LDP-4-LABELRELEERR Format: Invalid label %ld in label release message  
for fec %s from %s

**Explanation** LDP received an invalid label from a peer.

**Recommended Action** No action is required.

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**Error Message** LDP-4-MSGGENFAIL Format: Unable to format message to %s, error %s

**Explanation** LDP was unable to format a message to a peer.

**Recommended Action** No action is required.

**Error Message** LDP-4-SHUTFAIL Format: Failed to shutdown: %s

**Explanation** An operation failed during shutting down.

**Recommended Action** No action is required.

## **LDP-6**

**Error Message** LDP-6-INFORM Format: %s

**Explanation** Informational message.

**Recommended Action** No action is required.

# **LISP Messages**

This section contains the LISP messages.

## **LISP-2**

**Error Message** LISP-2-SHM\_LOCK\_CREAT Format: Failed to create shared memory lock: %s

**Explanation** The system has failed to initialize.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

## **LISP-3**

**Error Message** LISP-3-API\_INIT Format: Couldn't initialize %s API

**Explanation** LISP failed to open API to interact with the component.

**Recommended Action** No action is required.

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**Error Message** LISP-3-COMP\_DEREG Format: Unable to de-register with %s

**Explanation** LISP failed to de-register with a server component.

**Recommended Action** No action is required.

**Error Message** LISP-3-COMP\_REG Format: Unable to register with %s

**Explanation** LISP failed to register with a server component.

**Recommended Action** Dump core, and then restart component.

**Error Message** LISP-3-LIB\_API\_INIT Format: Couldn't initialize %s API

**Explanation** LISP failed to open API to interact with the component.

**Recommended Action** No action is required.

**Error Message** LISP-3-LISP\_INIT Format: LISP init failed: %s

**Explanation** LISP process initialization failed.

**Recommended Action** Dump core, and then restart component.

**Error Message** LISP-3-MALLOC Format: Private mem malloc (%lu) failed in %s

**Explanation** LISP process is out of free private memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** LISP-3-MTS\_DROP Format: Error returned from mts\_drop(), errno: %s

**Explanation** LISP called an MTS API which returned an error.

**Recommended Action** Dump core, and then restart component.

**Error Message** LISP-3-MTS\_RECV Format: Error returned from mts\_recv(), errno: %s

**Explanation** LISP called an MTS API which returned an error.

**Recommended Action** Dump core, and then restart component.

**Error Message** LISP-3-MTS\_SEND Format: Error returned from mts\_send(), errno: %s

**Explanation** LISP called an MTS API which returned an error.

**Recommended Action** Dump core, and then restart component.

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**Error Message** LISP-3-NO\_SET\_PRIORITY Format: Failed to set policy or priority

**Explanation** LISP process could not set itself process priority, exiting.

**Recommended Action** No action is required.

**Error Message** LISP-3-OPCODE\_REG Format: Could not register opcode 0x%x, reason %s

**Explanation** The system is unable to register opcodes  
Parameters: MTS Opcode, Error string ...

**Recommended Action** Dump core, and then restart component.

**Error Message** LISP-3-PT\_ADD Format: Couldn't add %s to Patricia Trie

**Explanation** LISP failed to update Patricia Trie.

**Recommended Action** No action is required.

**Error Message** LISP-3-PT\_DEL Format: Couldn't delete %s from Patricia Trie

**Explanation** LISP failed to delete entry from Patricia Trie.

**Recommended Action** No action is required.

**Error Message** LISP-3-RLIMIT Format: Couldn't set LISP data segment size to %lu

**Explanation** LISP process could not set a memory resource limit, exiting.

**Recommended Action** No action is required.

**Error Message** LISP-3-SHARED\_DB\_PUB\_INIT Format: Could not do shared database publisher initialization for interfaces rc=0x%x [%s]

**Explanation** The system is unable to do shared db publisher initialization  
Parameters: Status Error, Syserror string ...

**Recommended Action** Dump core, and then restart component.

**Error Message** LISP-3-SLAB\_CREATE Format: Slab alloc of type %s failed

**Explanation** LISP process failed to allocate Slab memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

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**Error Message** LISP-3-SM\_CLOSE Format: Couldn't close shm segment %s

**Explanation** LISP process failed to remove shared memory resource.

**Recommended Action** No action is required.

**Error Message** LISP-3-SM\_CREATE Format: Couldn't create shm segment %s

**Explanation** LISP process failed to initialize shared memory resource.

**Recommended Action** Dump core, and then restart component.

**Error Message** LISP-3-SM\_OPEN Format: Couldn't open shm segment %s

**Explanation** LISP process failed to initialize shared memory resource.

**Recommended Action** Dump core, and then restart component.

**Error Message** LISP-3-SMALLOC Format: Shared mem malloc (%s) failed in %s

**Explanation** LISP process is out of free shared memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** LISP-3-SUBCR\_INIT Format: Could not initialize shared database client for interfaces rc=0x%x [%s]

**Explanation** The system is unable to do subscRIBer init to access IM shared-dbs  
Parameters: Status Error, Syserror string ...

**Recommended Action** Dump core, and then restart component.

**Error Message** LISP-3-TIMER\_SET\_INIT Format: Couldn't init %s active timer set

**Explanation** LISP failed to initialize timer resource.

**Recommended Action** Dump core, and then restart component.

**Error Message** LISP-3-UNKNOWN\_MTYPE Format: Unknown mtype: %d/%d in %s

**Explanation** LISP process received unknown Interprocess message, dropped.

**Recommended Action** No action is required.

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## LISP-6

**Error Message** LISP-6-RESTART\_REASON Format: LISP process has restarted, restart reason: %s\n

**Explanation** LISP is restoring the routes it had added in previous instance.

**Recommended Action** No action is required.

**Error Message** LISP-6-SHUTDOWN Format: Shutting down LISP process

**Explanation** LISP received a shutdown request.

**Recommended Action** No action is required.

**Error Message** LISP-6-SHUTDOWN\_SELF Format: LISP shutting self down

**Explanation** LISP process is shutting itself down.

**Recommended Action** No action is required.

**Error Message** LISP-6-UFDM\_REGACK\_FAILED Format: Received IPC message from UFDM, Register-Ack failed

**Explanation** LISP process received unknown Interprocess message from the UFDM process, dropped.

**Recommended Action** No action is required.

**Error Message** LISP-6-UNKNOWN\_OPC Format: Received unknown mts opcode %d

**Explanation** LISP process received unknown Interprocess message, dropped.

**Recommended Action** No action is required.

**Error Message** LISP-6-UNKNOWN\_OPC\_UFDM Format: Received unknown UFDM mts opcode %d

**Explanation** LISP process received unknown Interprocess message from the UFDM process, dropped.

**Recommended Action** No action is required.

## M6RIB Messages

This section contains the M6RIB messages.

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## M6RIB-2

**Error Message** M6RIB-2-API\_INIT\_SEM Format: Failed to init the client API semaphore: %s, create: %s

**Explanation** M6RIB could not create the semaphore that protects access to the shared memory between M6RIB and its clients.

Parameters: Operation, Error from the operation ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** M6RIB-2-RES\_MGR Format: Error returned from %s for %d keys, errno: 0x%08x (%s) in %s(). Current reservation is %d, new size is %d

**Explanation** The resource manager returned an error to M6RIB, while M6RIB was performing an action relating to its shared memory

Parameters: RM Function, Error Code, Error Description, Calling Function, Reserved resources, Reservation requested resources ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** M6RIB-2-STARTUP\_FAILURE Format: Startup failure: %s

**Explanation** An unrecoverable software error has occurred during M6RIB startup.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

## M6RIB-3

**Error Message** M6RIB-3-ACTIVE\_TIMER\_FAILED Format: active\_timer\_create() failed for m6rib\_main()

**Explanation** M6RIB process failed to create a timer.

**Recommended Action** Dump core, then reload the stack.

**Error Message** M6RIB-3-API\_FAILED Format: %s failed

**Explanation** M6RIB process failed in invoking an API.

Parameters: Function ...

**Recommended Action** No action is required.

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**Error Message** M6RIB-3-BITFIELD\_FAILED Format: %s failed in %s

**Explanation** M6RIB process could not execute the bitfield operation.  
Parameters: Bitfield Operation, Function Name ...

**Recommended Action** Dump core, then reload the stack.

**Error Message** M6RIB-3-CONTEXT\_BF\_FAILED Format: bitfield\_create() failed for context %s

**Explanation** M6RIB process failed to create a bitfield for m6RIB\_ cibtype.  
Parameters: Context Name ...

**Recommended Action** Dump core, then reload the stack.

**Error Message** M6RIB-3-CV\_INIT Format: Couldn't init cond var %s

**Explanation** M6RIB process failed to initialize conditional-variable resource.  
Parameters: Thread Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** M6RIB-3-FTM\_BAD\_METER Format: %s failed for meter %s in %s

**Explanation** M6RIB process failed to configure the multicast meter.  
Parameters: FTM Operation, Type, Function ...

**Recommended Action** No action is required.

**Error Message** M6RIB-3-FTM\_BAD\_MINOR Format: Unknown FTM mtype: 0x%4x

**Explanation** M6RIB process received unsupported message type from FTM, ignored.  
Parameters: Minor Type ...

**Recommended Action** No action is required.

**Error Message** M6RIB-3-FTM\_NO\_XID Format: Cannot find FTM buffer, xid: %d

**Explanation** M6RIB process could not match the sequence number for FTM message, ignored.  
Parameters: Transaction ID ...

**Recommended Action** No action is required.

**Error Message** M6RIB-3-INHERIT\_FAILED Format: m6rib\_inherit\_oifs(): bitfield is set but oif doesn't exist

**Explanation** M6RIB process failed in inheriting OIFs for the (S,G) from (\*,G).

**Recommended Action** No action is required.

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**Error Message** M6RIB-3-INIT\_SDB Format: %s Return Code: 0x%x Error String: %s

**Explanation** SDB initialization failed  
Parameters: Message Return Code Error String ...

**Recommended Action** No action is required.

**Error Message** M6RIB-3-KSINK\_LIB\_ERROR Format: %s %s

**Explanation** A error was encountered during ksink operations.  
Parameters: Error Description, M6RIB Function ...

**Recommended Action** No action is required.

**Error Message** M6RIB-3-LIB\_API\_FAILED Format: %s failed in %s

**Explanation** Process failed in invoking an M6RIB API.  
Parameters: API Call, Function ...

**Recommended Action** No action is required.

**Error Message** M6RIB-3-LIB\_DUP\_REGISTER Format: m6rib\_register(): duplicate register by %s\

**Explanation** Dupilcate registration request to the M6RIB process, igored.  
Parameters: PIB Name ...

**Recommended Action** No action is required.

**Error Message** M6RIB-3-LIB\_MTS\_FAILED Format: %s failed in %s, errno: %s, for %s

**Explanation** Failure in M6RIB library to access mts-queue  
Parameters: MTS Operation, Function, errno, MTS Queue ...

**Recommended Action** No action is required.

**Error Message** M6RIB-3-LIB\_SEM\_INVALID Format: %s:%d: semaphore invalid in %s

**Explanation** M6RIB semaphore was found to be invalid when performing a semaphore operation  
Parameters: Function Name, Line ...

**Recommended Action** No action is required.

**Error Message** M6RIB-3-LIB\_SEM\_OP Format: %s:%d: semaphore operation %s failed

**Explanation** Caller failed to perform an operation on the M6RIB semaphore  
Parameters: Function Name, Line ...

**Recommended Action** No action is required.

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**Error Message** M6RIB-3-LIB\_SM\_FAILED Format: %s failed to access M6RIB shared memory in %s, errno: %s

**Explanation** Process failed to access the The system shared memory resource.  
Parameters: SM Operation, Function, errno ...

**Recommended Action** No action is required.

**Error Message** M6RIB-3-M6RIB\_ALREADY\_UP Format: m6rib already running, exiting

**Explanation** Another M6RIB process is already running, this process will shut down.

**Recommended Action** No action is required.

**Error Message** M6RIB-3-MALLOC\_FAILED Format: %s failed for %s

**Explanation** M6RIB process is out of free memory.  
Parameters: Alloc Routine, Structure Name ...

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** M6RIB-3-MFDM\_NO\_BUF Format: Cannot find MFDM buffer from route-ack for context %s

**Explanation** M6RIB process could not find a route buffer in its queue from the MFDM message, ignored.  
Parameters: Context Name ...

**Recommended Action** No action is required.

**Error Message** M6RIB-3-MQ\_FAILED Format: %s failed in %s, errno: %s, for %s

**Explanation** M6RIB process failed to access the message-queue.

**Recommended Action** No action is required.

**Error Message** M6RIB-3-MTS\_BIND Format: Error returned from mts\_bind() for %s mts queue, errno: %s

**Explanation** M6RIB called an MTS API which returned an error.  
Parameters: Queue Name, errno ...

**Recommended Action** Dump core, and then restart component.

**Error Message** M6RIB-3-MTS\_DROP Format: Error returned from mts\_drop(), errno: %s

**Explanation** M6RIB called an MTS API which returned an error.  
Parameters: errno ...

**Recommended Action** Dump core, and then restart component.

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**Error Message** M6RIB-3-MTS\_FAILED Format: %s failed in %s, errno: %s, for %s

**Explanation** M6RIB process failed to access the The system shared memory resource.  
Parameters: SM Operation, Function, errno ...

**Recommended Action** No action is required.

**Error Message** M6RIB-3-MTS\_NO\_PAYLOAD\_ERROR Format: Received MTS message with no payload on %s queue with opcode %d, dropping it

**Explanation** M6RIB received an unknown message. The message is dropped.

**Recommended Action** No action is required.

**Error Message** M6RIB-3-MTS\_RECV Format: Error returned from mts\_recv(), errno: %s

**Explanation** M6RIB called an MTS API which returned an error.  
Parameters: errno ...

**Recommended Action** Dump core, and then restart component.

**Error Message** M6RIB-3-MTS\_SHORT\_MSG\_ERROR Format: Received short (%d < %d) MTS message on %s queue with opcode %d, dropping it

**Explanation** M6RIB received an unknown message. The message is dropped.

**Recommended Action** No action is required.

**Error Message** M6RIB-3-MUTEX\_INIT Format: Couldn't init mutex %s

**Explanation** M6RIB process failed to initialize mutex system resource.  
Parameters: Thread Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** M6RIB-3-NO\_FREE\_GROUP Format: Unable to free group entry for %s in m6rib\_delete\_route\_internal()

**Explanation** M6RIB process unable to delete a route-table entry.  
Parameters: Group ...

**Recommended Action** No action is required.

**Error Message** M6RIB-3-NO\_FREE\_SOURCE Format: Unable to free source entry for %s in m6rib\_delete\_route\_internal()

**Explanation** M6RIB process unable to delete a route-table entry.  
Parameters: Source ...

**Recommended Action** No action is required.

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**Error Message** M6RIB-3-NO\_GROUP Format: Unable to create group entry for %s

**Explanation** M6RIB process unable to create the route entry in its route-table.  
Parameters: Group ...

**Recommended Action** No action is required.

**Error Message** M6RIB-3-NO\_MPIB Format: Unable to get mpib index in  
m6rib\_register\_internal()

**Explanation** M6RIB process cannot register the protocol as it has run out of PIB indices.

**Recommended Action** Dump core, then reload the stack.

**Error Message** M6RIB-3-NO\_SET\_PRIORITY Format: Failed to set policy or priority

**Explanation** M6RIB process could not set itself process priority, exiting.

**Recommended Action** No action is required.

**Error Message** M6RIB-3-NO\_SOURCE Format: Unable to create source entry for %s

**Explanation** M6RIB process unable to create the route entry in its route-table.  
Parameters: Source ...

**Recommended Action** No action is required.

**Error Message** M6RIB-3-NO\_TIMER Format: Could not create stale timer for %s\

**Explanation** M6RIB process cannot stale the routes for this protocol.  
Parameters: PIB Name ...

**Recommended Action** Dump core, then reload the stack.

**Error Message** M6RIB-3-OPCODE\_REGISTER Format: %s opcode: 0x%x ErrorString: %s

**Explanation** Opcode registration failed  
Parameters: Message Return Code Error String ...

**Recommended Action** No action is required.

**Error Message** M6RIB-3-PSS Format: Error returned from %s, errno: 0x%08x (%s) in %s()

**Explanation** M6RIB called a PSS API which returned an error. The error reported should be examined for the cause.  
Parameters: Failed API, Error Code, Error Description, M6RIB Function ...

**Recommended Action** ERRMSG.

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**Error Message** M6RIB-3-PT\_FAILED Format: %s failed in %s

**Explanation** M6RIB process failed to update route-table for this event.  
Parameters: PT Operation, Function Name ...

**Recommended Action** Dump core, then reload the stack.

**Error Message** M6RIB-3-PTHREAD\_FAILED Format: pthread\_create() failed for m6rib\_main()

**Explanation** M6RIB process failed to create a task thread.

**Recommended Action** Dump core, then reload the stack.

**Error Message** M6RIB-3-RDLOCK\_ASSERT Format: %s:%d: Assert, read-lock not acquired

**Explanation** Caller Failed to get M6RIB Shared Memory read lock  
Parameters: Function Name, Line ...

**Recommended Action** No action is required.

**Error Message** M6RIB-3-SYSMGR\_DISPATCH Format: Error returned from sysmgr\_dispatch(), errno: %s

**Explanation** M6RIB called the system manager API which returned an error.  
Parameters: errno ...

**Recommended Action** Dump core, and then restart component.

**Error Message** M6RIB-3-TIMER\_FAILED Format: could not %s

**Explanation** M6RIB process failed to configure a timer event.  
Parameters: Message ...

**Recommended Action** Dump core, then reload the stack.

**Error Message** M6RIB-3-UNKNOWN\_M6RIB\_MAJOR Format: m6rib\_main(): unknown major mtype: %d

**Explanation** M6RIB process received unknown Interprocess message, dropped.  
Parameters: Major Type ...

**Recommended Action** No action is required.

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**Error Message** M6RIB-3-UNKNOWN\_M6RIB\_MINOR Format: m6rib\_main(): unknown minor mtype: %d

**Explanation** M6RIB process received unknown Interprocess message, dropped.  
Parameters: Minor Type ...

**Recommended Action** No action is required.

**Error Message** M6RIB-3-UNKNOWN\_MFDM\_OPC Format: m6rib\_mfdm\_main(): received unknown opcode %d

**Explanation** M6RIB process received unknown Interprocess message from MFDM, dropped.  
Parameters: Opcode ...

**Recommended Action** No action is required.

**Error Message** M6RIB-3-UNKNOWN\_U6RIB Format: Received unknown U6RIB message type: %d

**Explanation** M6RIB process received unknown message from U6RIB, dropped.  
Parameters: Minor Type ...

**Recommended Action** No action is required.

**Error Message** M6RIB-3-WRLOCK\_ASSERT Format: %s:%d: Assert, write-lock not acquired

**Explanation** Caller Failed to get M6RIB Shared Memory write lock  
Parameters: Function Name, Line ...

**Recommended Action** No action is required.

## M6RIB-5

**Error Message** M6RIB-5-API\_INIT\_SEM\_CLEAR Format: Cleared the API semaphore from %d

**Explanation** The API semaphore was in an unexpected state, and was restored to a correct value.  
Parameters: Value of semaphore ...

**Recommended Action** No action is required.

**Error Message** M6RIB-5-RES\_MGR\_CHANGE Format: Changed m4route-mem from %d to %d

**Explanation** The requested limit-resource command was adapted to fit the limits in this version.  
Parameters: Requested Min, Requested Max, New Min, New Max ...

**Recommended Action** No action is required.

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## M6RIB-6

**Error Message** M6RIB-6-MEMORY\_OPTION Format: memory size must be >= 16MB and <= 2GB

**Explanation** Invalid memory size specified for M6RIB process.

**Recommended Action** No action is required.

**Error Message** M6RIB-6-SHUTDOWN Format: Shutting down M6RIB process

**Explanation** M6RIB process is shutting itself down.

**Recommended Action** No action is required.

**Error Message** M6RIB-6-SHUTDOWN\_FAILED Format: Shutting down of M6RIB process failed: %s

**Explanation** M6RIB process is shutting itself down.  
Parameters: Error String ...

**Recommended Action** No action is required.

**Error Message** M6RIB-6-USAGE Format: Usage: m6rib [-h] [-d] [-m <memory-in-mb>]

**Explanation** Usage for starting M6RIB process.

**Recommended Action** No action is required.

## MCASTFWD Messages

This section contains the MCASTFWD messages.

### MCASTFWD-2

**Error Message** MCASTFWD-2-SHM\_LOCK\_CREAT Format: Failed to create shared memory lock: %s

**Explanation** The system has failed to initialize.  
Parameters: Error Name ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

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**Error Message** MCASTFWD-2-STARTUP\_FAILURE Format: Startup failure: %s

**Explanation** An unrecoverable software error has occurred during MCASTFWD startup.  
Parameters: Failure reason ...

**Recommended Action** No action is required.

## MCASTFWD-3

**Error Message** MCASTFWD-3-ALREADY\_RUNNING Format: MCASTFWD already running, exiting

**Explanation** Another MCASTFWD process is already running, this process will shut down.

**Recommended Action** No action is required.

**Error Message** MCASTFWD-3-API\_FAILED Format: %s failed in %s

**Explanation** MCASTFWD process failed in invoking an API.  
Parameters: API name, Function name ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-3-AVL\_ERROR Format: AVL-tree operation %s failed for %s

**Explanation** MCASTFWD process failed in an AVL-tree manipulation.  
Parameters: AVL tree operation, Tree name ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-3-BAD\_MSG Format: Invalid %s message received from %s

**Explanation** MCASTFWD received an invalid MTS message.  
Parameters: Message type, Process name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MCASTFWD-3-BF\_CREATE Format: Couldn't create bitfield for %s

**Explanation** MCASTFWD failed to create bitfield resource.  
Parameters: Data type ...

**Recommended Action** Dump core, and then restart component.

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**Error Message** MCASTFWD-3-BITFIELD\_FAILED Format: %s failed in %s

**Explanation** MCASTFWD process could not execute the bitfield operation.  
Parameters: Bitfield operation, Function name ...

**Recommended Action** Dump core, then reload the stack.

**Error Message** MCASTFWD-3-CV\_INIT Format: Couldn't init cond var %s

**Explanation** MCASTFWD process failed to initialize conditional-variable resource.  
Parameters: Thread Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MCASTFWD-3-GETRLIMIT\_FAILED Format: Address Space size retrieval failed, reason %s

**Explanation** MCASTFWD process could not retrieve memory resource limit.

**Recommended Action** No action is required.

**Error Message** MCASTFWD-3-GROUP\_PREFIX\_IGNORE Format: Too many Groups in Group Prefix %s. Specify the prefix within /24

**Explanation** GPrefix yields too many Groups  
Parameters: Group Prefix ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-3-GROUP\_RANGE\_IGNORE Format: Too many Groups in Group Range %s - %s

**Explanation** Group Range yields too many Groups  
Parameters: Start Group, End Group ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-3-HA\_DB\_REBUILD Format: HA run-time database buildup %s

**Explanation** MCASTFWD-SNOOP stateful restart status  
Parameters: State description ...

**Recommended Action** No action is required.

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**Error Message** MCASTFWD-3-HA\_GROUP Format: HA %s operation in vlan %d failed for (%s, %s)

**Explanation** MCASTFWD-SNOOP called a PSS API which returned an error.  
Parameters: Operation type, Vlan-id, Group, Source ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** MCASTFWD-3-HA\_OIF Format: HA %s operation on OIF %s for (%s, %s) in vlan %d failed

**Explanation** MCASTFWD-SNOOP called a PSS API which returned an error.  
Parameters: Operation type, Interface, Group, Source, Vlan-id ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** MCASTFWD-3-HA\_RPORT Format: HA %s operation on router-port %s for vlan %d failed

**Explanation** MCASTFWD-SNOOP called a PSS API which returned an error.  
Parameters: Operation type, Interface, Vlan-id ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** MCASTFWD-3-HA\_VLAN Format: HA %s operation for vlan %d failed

**Explanation** MCASTFWD-SNOOP called a PSS API which returned an error.  
Parameters: Operation type, Vlan-id ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** MCASTFWD-3-IM\_API\_FAILED Format: %s failed in %s

**Explanation** IM API failed in MCEC MCASTFWD Snoop.  
Parameters: API name, Function name ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-3-INVALID\_OIF\_LIST Format: MCASTFWD Snooping invalid OIF list %s with %d iods in %s

**Explanation** MCASTFWD-SNOOP has invalid number of iods.  
Parameters: OIF list, OIF count, Function name ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** MCASTFWD-3-LIB\_API\_FAILED Format: %s failed in %s

**Explanation** Process failed in invoking MCASTFWD API.  
Parameters: API name, Function name ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-3-LIB\_API\_INIT Format: Couldn't initialize %s API

**Explanation** MCASTFWD failed to open API to interact with the component.  
Parameters: Component Name ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-3-LIB\_MALLOC Format: Private mem malloc (%lu) failed in %s

**Explanation** Process is out of free private memory.  
Parameters: Type of malloc(size), Function Name ...

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** MCASTFWD-3-LIB\_MTS\_FAILED Format: %s failed in %s, errno: %s

**Explanation** Process failed to access the MCASTFWD MTS-queue.  
Parameters: MTS IPC operation, Function name, Error ID ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-3-LIB\_SM\_CLOSE Format: Couldn't close shm segment %s

**Explanation** MCASTFWD process failed to remove shared memory resource.  
Parameters: Shared Memory Segment Name ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-3-LIB\_SM\_OPEN Format: Couldn't open shm segment %s

**Explanation** MCASTFWD process failed to initialize shared memory resource.  
Parameters: Shared Memory Segment Name ...

**Recommended Action** Dump core, and then restart component.

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**Error Message** MCASTFWD-3-LVPORT\_CREATE Format: MCASTFWD Snooping couldn't create an leave-port in %s for group %s

**Explanation** MCASTFWD-SNOOP called an API which returned an error.  
Parameters: Vlan ID, Group address ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** MCASTFWD-3-MALLOC\_FAILED Format: %s failed in %s

**Explanation** MCASTFWD process is out of free memory.  
Parameters: Structure type, Function name ...

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** MCASTFWD-3-MCASTFWD\_INIT Format: MCASTFWD init failed: %s

**Explanation** MCASTFWD process initialization failed.  
Parameters: Failure reason ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MCASTFWD-3-MFDM\_NO\_BUF Format: Cannot find MFDM buffer from route-ack for xid 0x%x

**Explanation** MCASTFWD process could not find a route buffer in its queue from the MFDM message, ignored.

**Recommended Action** No action is required.

**Error Message** MCASTFWD-3-MFWD\_NO\_MEM Format: Failed to allocate private memory for %s

**Explanation** The MCASTFWD process has run out of private memory.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** MCASTFWD-3-MTS\_BIND Format: Error returned from mts\_bind() for %s mts-q, errno: %s

**Explanation** MCASTFWD called an MTS API which returned an error.  
Parameters: MTS Queue name, Error description ...

**Recommended Action** Dump core, and then restart component.

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**Error Message** MCASTFWD-3-MTS\_DROP Format: Error returned from mts\_drop() for %s queue, errno: %s

**Explanation** MCASTFWD called an MTS API which returned an error.  
Parameters: MTS Queue name, Error description ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MCASTFWD-3-MTS\_RECV Format: Error returned from mts\_recv() for %s queue, errno: %s

**Explanation** MCASTFWD called an MTS API which returned an error.  
Parameters: MTS Queue name, Error description ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MCASTFWD-3-MTS\_SEND Format: Error returned from mts\_send() for %s queue, errno: %s

**Explanation** MCASTFWD called an MTS API which returned an error.  
Parameters: MTS Queue name, Error description ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MCASTFWD-3-MUTEX\_INIT Format: Couldn't init mutex %s

**Explanation** MCASTFWD process failed to initialize mutex system resource.  
Parameters: Thread Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MCASTFWD-3-NO\_MBUF Format: Failed to allocate mbuf %s

**Explanation** The MCASTFWD process has run out of network buffers.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** MCASTFWD-3-NO\_SET\_PRIORITY Format: Failed to set policy or priority

**Explanation** MCASTFWD process could not set itself process priority, exiting.

**Recommended Action** No action is required.

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**Error Message** MCASTFWD-3-NO\_SH\_MEM Format: Failed to allocate shared memory %s

**Explanation** The MCASTFWD process has run out of shared memory  
Parameters: Allocation type ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** MCASTFWD-3-NO\_SHUTDOWN Format: Unable to shutdown %s

**Explanation** MCASTFWD process unable to shut itself down.  
Parameters: Shutdown error information ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MCASTFWD-3-PT\_ADD Format: Couldn't add element to PT %s

**Explanation** MCASTFWD failed to update the local snooping-db entry.  
Parameters: Patricia tree name ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-3-PT\_DEL Format: Couldn't delete element from PT %s

**Explanation** MCASTFWD failed to delete the local snooping-db entry.  
Parameters: Patricia tree name ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-3-PTHREAD\_FAILED Format: %s failed in %s for thread %s

**Explanation** MCASTFWD process failed to create a task thread.  
Parameters: Pthread operation, Function name, Thread name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MCASTFWD-3-PULLUP\_FAILED Format: m\_pullup() of %d bytes failed in %s

**Explanation** MCASTFWD process failed to process the packet, dropping it.  
Parameters: Byte count, Function name ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-3-QUERIER\_START\_FAILED Format: %s failed in %s

**Explanation** MCASTFWD snoop failed to start the querier.  
Parameters: Function name, Function name ...

**Recommended Action** No action is required.

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**Error Message** MCASTFWD-3-RCOUNT\_DELETE Format: Route count delete failed for %s

**Explanation** MCASTFWD called an API which returned an error.  
Parameters: Interface ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** MCASTFWD-3-RCOUNT\_UPDATE Format: Route count update failed for %s

**Explanation** MCASTFWD called an API which returned an error.  
Parameters: Interface ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** MCASTFWD-3-RDLOCK\_ASSERT Format: %s:%d: Assert, read-lock not acquired

**Explanation** Caller Failed to get MCASTFWD Shared Memory read lock  
Parameters: Function Name, Line ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-3-RESERVE\_LIMIT Format: Exceeded reserve-limit for interface %s - dropping

**Explanation** Exceeded the reserve-limit for interface  
Parameters: Interface ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-3-RESTART\_REASON Format: MCASTFWD process has restarted, restart reason: %s\n

**Explanation** MCASTFWD is restoring the routes it had added in previous instance.  
Parameters: Restart reason ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-3-RPORT\_UPDATE Format: Router-port update failed for %s (%s)

**Explanation** MCASTFWD-SNOOP called an API which returned an error.  
Parameters: Interface, Vlan ID ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** MCASTFWD-3-SETRLIMIT\_FAILED Format: Address space size increment of %ld failed, reason %s

**Explanation** MCASTFWD process could not set a memory resource limit  
Parameters: Number of bytes ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-3-SLAB\_CREATE Format: Slab alloc of type %s failed

**Explanation** MCASTFWD process failed to allocate Slab memory.  
Parameters: Structure Type ...

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** MCASTFWD-3-SMALLOC Format: Shared mem malloc (%lu) failed in %s

**Explanation** MCASTFWD process is out of free shared memory.  
Parameters: Type of malloc(size), Function Name ...

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** MCASTFWD-3-STATE\_LIMIT Format: Exceeded state-limit for interface %s - dropping

**Explanation** Exceeded the state-limit for interface  
Parameters: Interface ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-3-SYSMGR\_DISPATCH Format: Error returned from sysmgr\_dispatch(), errno: %s

**Explanation** MCASTFWD called the system manager API which returned an error.  
Parameters: Error description ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MCASTFWD-3-TIMER\_FAILED Format: %s failed for %s in %s

**Explanation** MCASTFWD process failed to configure a timer event.  
Parameters: Timer operation, Timer name, Function name ...

**Recommended Action** Dump core, and then restart component.

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**Error Message** MCASTFWD-3-TXLIST\_CREATE Format: Couldn't create txlist for %s

**Explanation** MCASTFWD failed to create txlist resource.  
Parameters: Data type ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MCASTFWD-3-UNKNOWN\_MTYPE Format: Unknown mtype: %d/%d in %s with opcode %d

**Explanation** MCASTFWD process received unknown Interprocess message, dropped.  
Parameters: Major ID, Minor ID, Function name ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-3-VLAN\_EXISTS Format: SNOOP: Couldn't create %s, already exists

**Explanation** MCASTFWD failed to create vlan resource.  
Parameters: VLAN ID ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-3-vPC\_API\_FAILED Format: %s%s

**Explanation** API failed in vPC MCASTFWD snoop module.  
Parameters: Error message, Error ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-3-vPC\_ERROR Format: %s%s

**Explanation** vPC related messages.  
Parameters: vPC related message, Error message ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-3-VRF\_CREATE Format: MCASTFWD VRF creation failed for vrf %s

**Explanation** MCASTFWD process could not create the VRF context.  
Parameters: VRF name ...

**Recommended Action** Dump core, then reload the stack.

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## MCASTFWD-6

**Error Message** MCASTFWD-6-AS\_LIMIT\_INCREASED Format: Address space size for %s increased %d times

**Explanation** MCASTFWD process incremented AS memory resource limit  
Parameters: Module name, Increment count ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-6-HA\_SEQNO\_SYNC Format: HA sequence number sync to standby failed, %s

**Explanation** MCASTFWD-SNOOP HA sequence number synchronization to standby failed  
Parameters: Error description ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-6-HA\_STATEFUL Format: Stateful HA %s

**Explanation** MCASTFWD-SNOOP stateful restart status  
Parameters: State description ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-6-HA\_SYNC Format: HA sync to standby failed, %s

**Explanation** MCASTFWD-SNOOP HA synchronization message to standby failed  
Parameters: Error description ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-6-RECEIVE\_QUERY Format: Received %s interface %s from %s

**Explanation** MCASTFWD version mismatch, query still processed.  
Parameters: MCASTFWD version mismatch, Interface, Source address ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-6-REG\_SEND\_MSG Format: Suppress PIM Data Register for (%s, %s) due to suppression-timer\n

**Explanation** Suppress PIM Data Register due to suppression-timer.  
Parameters: Source address, Group address ...

**Recommended Action** No action is required.

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**Error Message** MCASTFWD-6-RESERVE\_LIMIT\_WARNING Format: Exceeded 80% of the reserve-limit for interface %s

**Explanation** Exceeded 80% of the reserve-limit for interface  
Parameters: Interface ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-6-RESTART\_SHUTDOWN Format: MCASTFWD shutting self down via restart command

**Explanation** MCASTFWD process is shutting itself down due to the restart command.

**Recommended Action** No action is required.

**Error Message** MCASTFWD-6-SHUTDOWN Format: MCASTFWD shutting self down

**Explanation** MCASTFWD process is shutting itself down.

**Recommended Action** No action is required.

**Error Message** MCASTFWD-6-STATE\_LIMIT\_WARNING Format: Exceeded 80% of the state-limit for interface %s

**Explanation** Exceeded 80% of the state-limit for interface  
Parameters: Interface ...

**Recommended Action** No action is required.

**Error Message** MCASTFWD-6-UNKNOWN\_OPC Format: Received unknown mts opcode %d

**Explanation** MCASTFWD process received unknown Interprocess message, dropped.  
Parameters: Operation Code ...

**Recommended Action** No action is required.

## MRIB Messages

This section contains the MRIB messages.

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## MRIB-2

**Error Message** MRIB-2-API\_INIT\_SEM Format: Failed to init the client API semaphore: %s, create: %s

**Explanation** MRIB could not create the semaphore that protects access to the shared memory between MRIB and its clients.

Parameters: Operation, Error from the operation ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** MRIB-2-RES\_MGR Format: Error returned from %s for %d keys, errno: 0x%08x (%s) in %s(). Current reservation is %d, new size is %d

**Explanation** The resource manager returned an error to MRIB, while MRIB was performing an action relating to its shared memory

Parameters: RM Function, Error Code, Error Description, Calling Function, Reserved resources, Reservation requested resources ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** MRIB-2-STARTUP\_FAILURE Format: Startup failure: %s

**Explanation** An unrecoverable software error has occurred during MRIB startup.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

## MRIB-3

**Error Message** MRIB-3-ACTIVE\_TIMER\_FAILED Format: active\_timer\_create() failed for mrib\_main()

**Explanation** MRIB process failed to create a timer.

**Recommended Action** Dump core, then reload the stack.

**Error Message** MRIB-3-API\_FAILED Format: %s failed

**Explanation** MRIB process failed in invoking an API.

Parameters: Function ...

**Recommended Action** No action is required.

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**Error Message** MRIB-3-BITFIELD\_FAILED Format: %s failed in %s

**Explanation** MRIB process could not execute the bitfield operation.  
Parameters: Bitfield Operation, Function Name ...

**Recommended Action** Dump core, then reload the stack.

**Error Message** MRIB-3-CONTEXT\_BF\_FAILED Format: bitfield\_create() failed for context %s

**Explanation** MRIB process failed to create a bitfield for mRIB\_ cibtype.  
Parameters: Context Name ...

**Recommended Action** Dump core, then reload the stack.

**Error Message** MRIB-3-CV\_INIT Format: Couldn't init cond var %s

**Explanation** MRIB process failed to initialize conditional-variable resource.  
Parameters: Thread Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MRIB-3-FTM\_BAD\_METER Format: %s failed for meter %s in %s

**Explanation** MRIB process failed to configure the multicast meter.  
Parameters: FTM Operation, Type, Function ...

**Recommended Action** No action is required.

**Error Message** MRIB-3-FTM\_BAD\_MINOR Format: Unknown FTM mtype: 0x%4x

**Explanation** MRIB process received unsupported message type from FTM, ignored.  
Parameters: Minor Type ...

**Recommended Action** No action is required.

**Error Message** MRIB-3-FTM\_NO\_XID Format: Cannot find FTM buffer, xid: %d

**Explanation** MRIB process could not match the sequence number for FTM message, ignored.  
Parameters: Transaction ID ...

**Recommended Action** No action is required.

**Error Message** MRIB-3-INHERIT\_FAILED Format: mrib\_inherit\_oifs(): bitfield is set but oif doesn't exist

**Explanation** MRIB process failed in inheriting OIFs for the (S,G) from (\*,G).

**Recommended Action** No action is required.

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**Error Message** MRIB-3-INIT\_SDB Format: %s Return Code: 0x%x Error String: %s

**Explanation** SDB initialization failed  
Parameters: Message Return Code Error String ...

**Recommended Action** No action is required.

**Error Message** MRIB-3-INVALID\_GROUP Format: Operation for invalid group %s received in %s

**Explanation** MRIB process received invalid group.  
Parameters: Group, Function ...

**Recommended Action** No action is required.

**Error Message** MRIB-3-KSINK\_LIB\_ERROR Format: %s %s

**Explanation** A error was encountered during ksink operations.  
Parameters: Error Description, MRIB Function ...

**Recommended Action** No action is required.

**Error Message** MRIB-3-LIB\_API\_FAILED Format: %s failed in %s

**Explanation** Process failed in invoking an API.  
Parameters: API Call, Function ...

**Recommended Action** No action is required.

**Error Message** MRIB-3-LIB\_DUP\_REGISTER Format: mrib\_register(): duplicate register by %s\

**Explanation** Dupilcate registration request to the MRIB process, igored.  
Parameters: PIB Name ...

**Recommended Action** No action is required.

**Error Message** MRIB-3-LIB\_MTS\_FAILED Format: %s failed in %s, errno: %s, for %s

**Explanation** Failure in MRIB library to access mts-queue  
Parameters: MTS Operation, Function, errno, MTS Queue ...

**Recommended Action** No action is required.

**Error Message** MRIB-3-LIB\_SEM\_INVALID Format: %s:%d: semaphore invalid in %s

**Explanation** MRIB semaphore was found to be invalid when performing a semaphore operation  
Parameters: Function Name, Line ...

**Recommended Action** No action is required.

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**Error Message** MRIB-3-LIB\_SEM\_OP Format: %s:%d: semaphore operation %s failed

**Explanation** Caller failed to perform an operation on the MRIB semaphore  
Parameters: Function Name, Line ...

**Recommended Action** No action is required.

**Error Message** MRIB-3-LIB\_SM\_FAILED Format: %s failed to access MRIB shared memory in %s, errno: %s

**Explanation** Process failed to access the The system shared memory resource.  
Parameters: SM Operation, Function, errno ...

**Recommended Action** No action is required.

**Error Message** MRIB-3-MALLOC\_FAILED Format: %s failed for %s

**Explanation** MRIB process is out of free memory.  
Parameters: Alloc Routine, Structure Name ...

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** MRIB-3-MDT\_API\_FAILED Format: %s failed in %s

**Explanation** MRIB process failed in invoking an API.  
Parameters: API, Function ...

**Recommended Action** No action is required.

**Error Message** MRIB-3-MFDM\_NO\_BUF Format: Cannot find MFDM buffer from route-ack for context %s

**Explanation** MRIB process could not find a route buffer in its queue from the MFDM message, ignored.  
Parameters: Context Name, Address of the received buffer ...

**Recommended Action** No action is required.

**Error Message** MRIB-3-MQ\_FAILED Format: %s failed in %s, errno: %s, for %s

**Explanation** MRIB process failed to access the The system shared memory resource.  
Parameters: SM Operation, Function, errno ...

**Recommended Action** No action is required.

**Error Message** MRIB-3-MRIB\_ALREADY\_UP Format: mrib already running, exiting

**Explanation** Another MRIB process is already running, this process will shut down.

**Recommended Action** No action is required.

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**Error Message** MRIB-3-MTS\_BIND Format: Error returned from mts\_bind() for %s mts queue, errno: %s

**Explanation** MRIB called an MTS API which returned an error.  
Parameters: Queue Name, errno ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MRIB-3-MTS\_DROP Format: Error returned from mts\_drop(), errno: %s

**Explanation** MRIB called an MTS API which returned an error.  
Parameters: errno ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MRIB-3-MTS\_NO\_PAYLOAD\_ERROR Format: Received MTS message with no payload on %s queue with opcode %d, dropping it

**Explanation** MRIB received an unknown message. The message is dropped.

**Recommended Action** No action is required.

**Error Message** MRIB-3-MTS\_RECV Format: Error returned from mts\_recv(), errno: %s

**Explanation** MRIB called an MTS API which returned an error.  
Parameters: errno ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MRIB-3-MTS\_SHORT\_MSG\_ERROR Format: Received short (%d < %d) MTS message on %s queue with opcode %d, dropping it

**Explanation** MRIB received an unknown message. The message is dropped.

**Recommended Action** No action is required.

**Error Message** MRIB-3-MUTEX\_INIT Format: Couldn't init mutex %s

**Explanation** MRIB process failed to initialize mutex system resource.  
Parameters: Thread Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MRIB-3-NO\_FREE\_GROUP Format: Unable to free group entry for %s

**Explanation** MRIB process unable to delete a route-table entry.  
Parameters: Group ...

**Recommended Action** No action is required.

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**Error Message** MRIB-3-NO\_FREE\_SOURCE Format: Unable to free source entry for %s

**Explanation** MRIB process unable to delete a route-table entry.  
Parameters: Source ...

**Recommended Action** No action is required.

**Error Message** MRIB-3-NO\_GROUP Format: Unable to create group entry for %s

**Explanation** MRIB process unable to create the route entry in its route-table.  
Parameters: Group ...

**Recommended Action** No action is required.

**Error Message** MRIB-3-NO\_MARKER Format: Unable to find the txlist marker for VRF:%s for the client: %s

**Explanation** MRIB failed to find txlist resource.  
Parameters: VRF name, client name ...

**Recommended Action** ACTION\_SW\_KEEP\_RUNNING.

**Error Message** MRIB-3-NO\_MPIB Format: Unable to get mpib index in mrib\_register\_internal()

**Explanation** MRIB process cannot register the protocol as it has run out of PIB indices.

**Recommended Action** Dump core, then reload the stack.

**Error Message** MRIB-3-NO\_MPIB\_FOR\_ROUTE Format: Unable to creates mpib entry for %s for mpib %s in VRF %s

**Explanation** MRIB process unable to create the route entry in its route-table.  
Parameters: Address, Protocol Name, VRF Name ...

**Recommended Action** No action is required.

**Error Message** MRIB-3-NO\_SET\_PRIORITY Format: Failed to set policy or priority

**Explanation** MRIB process could not set itself process priority, exiting.

**Recommended Action** No action is required.

**Error Message** MRIB-3-NO\_SOURCE Format: Unable to create source entry for %s

**Explanation** MRIB process unable to create the route entry in its route-table.  
Parameters: Source ...

**Recommended Action** No action is required.

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**Error Message** MRIB-3-NO\_TIMER Format: Could not create stale timer for \%s\  
Parameters: %s

**Explanation** MRIB process cannot stale the routes for this protocol.  
Parameters: PIB Name ...

**Recommended Action** Dump core, then reload the stack.

**Error Message** MRIB-3-NOTIFY\_BUF\_FAILED Format: Unable to create notification buffer's for client %s, aborting registration.

**Explanation** MRIB failed to create notification buffer for a client  
Parameters: client name ...

**Recommended Action** ACTION\_SW\_KEEP\_RUNNING.

**Error Message** MRIB-3-OPCODE\_REGISTER Format: %s opcode: 0x%x ErrorString: %s  
Parameters: %s

**Explanation** Opcode registration failed  
Parameters: Message Return Code Error String ...

**Recommended Action** No action is required.

**Error Message** MRIB-3-PSS Format: Error returned from %s, errno: 0x%08x (%s) in %s()  
Parameters: %s

**Explanation** MRIB called a PSS API which returned an error. The error reported should be examined for the cause.  
Parameters: Failed API, Error Code, Error Description, MRIB Function ...

**Recommended Action** ERRMSG.

**Error Message** MRIB-3-PT\_FAILED Format: %s failed in %s  
Parameters: %s

**Explanation** MRIB process failed to update route-table for this event.  
Parameters: PT Operation, Function Name ...

**Recommended Action** Dump core, then reload the stack.

**Error Message** MRIB-3-PTHREAD\_FAILED Format: pthread\_create() failed for mrib\_main()  
Parameters: %s

**Explanation** MRIB process failed to create a task thread.

**Recommended Action** Dump core, then reload the stack.

**Error Message** MRIB-3-RDLOCK\_ASSERT Format: %s:%d: Assert, read-lock not acquired  
Parameters: %s

**Explanation** Caller Failed to get MRIB Shared Memory read lock  
Parameters: Function Name, Line ...

**Recommended Action** No action is required.

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**Error Message** MRIB-3-SYSMGR\_DISPATCH Format: Error returned from sysmgr\_dispatch(),  
errno: %s

**Explanation** MRIB called the system manager API which returned an error.  
Parameters: errno ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MRIB-3-TIMER\_FAILED Format: could not %s

**Explanation** MRIB process failed to configure a timer event.  
Parameters: Message ...

**Recommended Action** Dump core, then reload the stack.

**Error Message** MRIB-3-TXLIST\_CREATE Format: Couldn't create txlist for %s in VRF:%s

**Explanation** MRIB failed to create txlist resource.  
Parameters: Data type, The VRF that failure occurred in ...

**Recommended Action** ACTION\_SW\_KEEP\_RUNNING.

**Error Message** MRIB-3-UNKNOWN\_MFDM\_OPC Format: mrib\_mfdm\_main(): received unknown  
opcode %d

**Explanation** MRIB process received unknown Interprocess message from MFDM, dropped.  
Parameters: Opcode ...

**Recommended Action** No action is required.

**Error Message** MRIB-3-UNKNOWN\_MRIB\_MAJOR Format: mrib\_main(): unknown major mtype:  
%d

**Explanation** MRIB process received unknown Interprocess message, dropped.  
Parameters: Major Type ...

**Recommended Action** No action is required.

**Error Message** MRIB-3-UNKNOWN\_MRIB\_MINOR Format: mrib\_main(): unknown minor mtype:  
%d

**Explanation** MRIB process received unknown Interprocess message, dropped.  
Parameters: Minor Type ...

**Recommended Action** No action is required.

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**Error Message** MRIB-3-UNKNOWN\_URIB Format: Received unknown URIB message type: %d

**Explanation** MRIB process received unknown message from URIB, dropped.  
Parameters: Minor Type ...

**Recommended Action** No action is required.

**Error Message** MRIB-3-WRLOCK\_ASSERT Format: %s:%d: Assert, write-lock not acquired

**Explanation** Caller Failed to get MRIB Shared Memory write lock  
Parameters: Function Name, Line ...

**Recommended Action** No action is required.

## **MRIB-4**

**Error Message** %MRIB-4-WARN\_OUT\_OF\_MEMORY: mrib [xxxx] Out of memory  
../feature/vsh/cli/cli\_common/cli\_print\_buffer.cc:145

**Recommended Action** No action is required.

## **MRIB-5**

**Error Message** MRIB-5-API\_INIT\_SEM\_CLEAR Format: Cleared the API semaphore from %d

**Explanation** The API semaphore was in an unexpected state, and was restored to a correct value.  
Parameters: Value of semaphore ...

**Recommended Action** No action is required.

**Error Message** MRIB-5-RES\_MGR\_CHANGE Format: Changed m4route-mem from (%d, %d) to (%d, %d)

**Explanation** The requested limit-resource command was adapted to fit the limits in this version.  
Parameters: Requested Min, Requested Max, New Min, New Max ...

**Recommended Action** No action is required.

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## MRIB-6

**Error Message** MRIB-6-MEMORY\_OPTION Format: memory size must be >= 16MB and <= 2GB

**Explanation** Invalid memory size specified for MRIB process.

**Recommended Action** No action is required.

**Error Message** MRIB-6-SHUTDOWN Format: Shutting down MRIB process

**Explanation** MRIB process is shutting itself down.

**Recommended Action** No action is required.

**Error Message** MRIB-6-SHUTDOWN\_FAILED Format: Shutting down of MRIB process failed:  
%s

**Explanation** MRIB process is shutting itself down.  
Parameters: Error String ...

**Recommended Action** No action is required.

**Error Message** MRIB-6-USAGE Format: Usage: mrib [-h] [-d] [-m <memory-in-mb>]

**Explanation** Usage for starting MRIB process.

**Recommended Action** No action is required.

## MSDP Messages

This section contains the MSDP messages.

### MSDP-2

**Error Message** MSDP-2-NO\_ENQUEUE Format: Unable to enqueue send element for peer %s

**Explanation** MSDP process failed to send a message over the TCP socket to peer.  
Parameters: Peer IP address ...

**Recommended Action** No action is required.

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**Error Message** MSDP-2-NO\_LISTEN\_SOCKET Format: Fatal error, can't get listen socket setup in %s

**Explanation** MSDP process failed to obtain TCP packet.  
Parameters: Function name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MSDP-2-OUT\_OF\_SYNC\_TCP\_LEN Format: TCP data stream may be out of sync, suspect TLV length of %d from peer %s

**Explanation** MSDP process received invalid packet length from peer.  
Parameters: TLV length, Peer IP address ...

**Recommended Action** No action is required.

**Error Message** MSDP-2-OUT\_OF\_SYNC\_TCP\_TYPE Format: TCP data stream may be out of sync, suspect TLV type of %d from peer %s

**Explanation** MSDP process received malformed TLV from peer.  
Parameters: TLV type, Peer IP address ...

**Recommended Action** No action is required.

**Error Message** MSDP-2-SEND\_QUEUE\_CORRUPT Format: Send queue corrupted for peer %s

**Explanation** The TCP socket send queue is corrupted. Connection to peer will be reset.  
Parameters: Peer IP address ...

**Recommended Action** No action is required.

## **MSDP-3**

**Error Message** MSDP-3-ACCEPT Format: In %s, %s failed with errmsg: %s

**Explanation** MSDP process failed to accept connection.  
Parameters: Function name, TSP API, Error message ...

**Recommended Action** No action is required.

**Error Message** MSDP-3-ALREADY\_RUNNING Format: MSDP already running, exiting - %s

**Explanation** Another MSDP process is already running, this process will shut down.  
Parameters: Error message ...

**Recommended Action** No action is required.

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**Error Message** MSDP-3-API\_FAILED Format: %s failed in %s

**Explanation** MSDP process failed in invoking an API.  
Parameters: API name, Function in which API failed ...

**Recommended Action** No action is required.

**Error Message** MSDP-3-AS\_NUMBER Format: MSDP/BGP local AS number is - %s

**Explanation** MSDP process local AS number  
Parameters: AS number ...

**Recommended Action** No action is required.

**Error Message** MSDP-3-CV\_INIT Format: Couldn't init cond var %s

**Explanation** MSDP process failed to initialize conditional-variable resource.  
Parameters: Thread Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MSDP-3-FM\_ERROR Format: FM could not shut down MSDP process

**Explanation** MSDP could not process the disable-req from FM.

**Recommended Action** Dump core, and then restart component.

**Error Message** MSDP-3-INVALID\_TLV Format: Invalid TLV, type: %d, length: %d from peer %s

**Explanation** MSDP process received an invalid packet. Appropriate error packet returned.  
Parameters: TLV type, TLV length, Peer IP address ...

**Recommended Action** No action is required.

**Error Message** MSDP-3-LIB\_MTS\_FAILED Format: %s failed in %s, errno: %s

**Explanation** Process failed to access the MSDP mts-queue.  
Parameters: MTS function name, Function in which MTS function failed, Error message ...

**Recommended Action** No action is required.

**Error Message** MSDP-3-MALLOC\_FAILED Format: %s failed in %s

**Explanation** MSDP process is out of free memory.  
Parameters: Malloc function, Function in which Malloc failed ...

**Recommended Action** Configure the network or router to decrease the number of routes.

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**Error Message** MSDP-3-MQ\_FAILED Format: %s failed in %s, errno: %s

**Explanation** MSDP process failed to access the message-queue.  
Parameters: MQ function name, Function in which MQ function failed, Error message ...

**Recommended Action** No action is required.

**Error Message** MSDP-3-MRIB\_ROUTE Format: In %s, %s failed to add mrib route

**Explanation** MSDP process failed to add mRIB routes.  
Parameters: Function name, mrib\_add\_route ...

**Recommended Action** No action is required.

**Error Message** MSDP-3-MSDP\_INIT Format: MSDP init failed: %s

**Explanation** MSDP process initialization failed.  
Parameters: Component Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MSDP-3-MTS\_BIND Format: In %s, %s failed due to %s

**Explanation** MSDP called an MTS API which returned an error.  
Parameters: Function name,MTS API,Error message ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MSDP-3-MTS\_DROP Format: Error returned from mts\_drop(), errmsg: %s

**Explanation** MSDP called an MTS API which returned an error.  
Parameters: Error message ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MSDP-3-MTS\_FAILED Format: %s failed in %s, errno: %s

**Explanation** MSDP process failed to access the mts-queue.  
Parameters: MTS function name, Function in which MTS function failed, Error message ...

**Recommended Action** No action is required.

**Error Message** MSDP-3-MTS\_RECV Format: Error returned from mts\_recv(), errmsg: %s

**Explanation** MSDP called an MTS API which returned an error.  
Parameters: Error message ...

**Recommended Action** Dump core, and then restart component.

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**Error Message** MSDP-3-MUTEX\_INIT Format: Couldn't init mutex %s

**Explanation** MSDP process failed to initialize mutex system resource.  
Parameters: Thread Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MSDP-3-NO\_SET\_PRIORITY Format: Failed to set policy or priority in %s

**Explanation** MSDP process could not set itself process priority, exiting.  
Parameters: Function name ...

**Recommended Action** No action is required.

**Error Message** MSDP-3-NO\_SHUTDOWN Format: Unable to shutdown msdp\_main\_thread - %s

**Explanation** MSDP process unable to shut itself down.  
Parameters: Message ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MSDP-3-NOSOURCE Format: Resetting peer due to VRF change for connect-source %s

**Explanation** The configured interface used for the connect-source has moved to another VRF.

**Recommended Action** No action is required.

**Error Message** MSDP-3-PTHREAD\_FAILED Format: %s failed in %s for thread %s

**Explanation** MSDP process failed to create a task thread.  
Parameters: PTHREAD function name, Function in which PTHREAD function failed, Error message ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MSDP-3-RESTART\_REASON Format: MSDP process has restarted, restart reason: %s\n

**Explanation** MSDP is restoring the routes it had added in previous instance.  
Parameters: Restart reason ...

**Recommended Action** No action is required.

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**Error Message** MSDP-3-SDB\_CLIENT\_ERROR Format: Failed to initialize shared database client with status %x and errmsg: %s\n

**Explanation** MSDP process could not initialize shared database, client.  
Parameters: Status, Error Message ...

**Recommended Action** No action is required.

**Error Message** MSDP-3-SELECT Format: In %s, %s failed with errmsg: %s

**Explanation** MSDP process failed to select.  
Parameters: Function name, TSP API, Error message ...

**Recommended Action** No action is required.

**Error Message** MSDP-3-SET\_SOCKET\_OPTIONS Format: In %s, %s failed for %s

**Explanation** MSDP process failed while setting socket options.  
Parameters: Function name, API, Socket option ...

**Recommended Action** No action is required.

**Error Message** MSDP-3-SETRLIMIT\_FAILED Format: Data segment allocation of %ld failed

**Explanation** MSDP process could not set a memory resource limit, exiting.  
Parameters: Size ...

**Recommended Action** No action is required.

**Error Message** MSDP-3-SETSOCKOPT Format: In %s, %s failed while setting %s option with errmsg: %s

**Explanation** MSDP process failed while setting tsp socket options.  
Parameters: Function name, TSP API, Socket option, Error message ...

**Recommended Action** No action is required.

**Error Message** MSDP-3-SETUPSOCKET\_ERROR Format: In %s, %s failed to create connection with %s

**Explanation** MSDP process failed to select.  
Parameters: Function name, TSP API, IP address ...

**Recommended Action** No action is required.

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**Error Message** MSDP-3-SM\_FAILED Format: %s failed in %s, errno: %s

**Explanation** MSDP process failed to access the The system shared memory resource.  
Parameters: SM function name, Function in which SM function failed, Error message ...

**Recommended Action** No action is required.

**Error Message** MSDP-3-SOCKET\_BIND Format: In %s, %s failed with errmsg %s for %s

**Explanation** MSDP process failed to bind.  
Parameters: Function name, TSP API, Error message, IP address ...

**Recommended Action** No action is required.

**Error Message** MSDP-3-SOCKET\_CONNECT Format: In %s, %s failed to connect %s with context name:%s and errmsg: %s

**Explanation** MSDP process failed to connect to peer.  
Parameters: Function name, TSP API, Peer IP address, Context name, Error message ...

**Recommended Action** No action is required.

**Error Message** MSDP-3-SOCKET\_ERROR Format: In %s, %s failed with errmsg: %s

**Explanation** MSDP process failed to create socket.  
Parameters: Function name, TSP API, Error message ...

**Recommended Action** No action is required.

**Error Message** MSDP-3-SYSMGR\_DISPATCH Format: Error returned from sysmgr\_dispatch(), errmsg: %s

**Explanation** MSDP called the system manager API which returned an error.  
Parameters: Error message ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MSDP-3-SYSMGR\_INIT Format: Error in %s while %s

**Explanation** MSDP called a active timer API which returned an error.  
Parameters: Function name,Cause ...

**Recommended Action** Dump core, and then restart component.

**Error Message** MSDP-3-TXLIST\_CREATE Format: Couldn't create txlist for %s in VRF:%s

**Explanation** MSDP failed to create txlist resource.  
Parameters: Data type, The VRF that failure occurred in ...

**Recommended Action** Dump core, and then restart component.

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**Error Message** MSDP-3-UNKNOWN\_MTYPE Format: Unknown mtype: %d/%d in %s

**Explanation** MSDP process received unknown Interprocess message, dropped.  
Parameters: Major type, Minor type, Function name ...

**Recommended Action** No action is required.

## MSDP-6

**Error Message** MSDP-6-RESTART\_SHUTDOWN Format: MSDP shutting self down via restart command

**Explanation** MSDP process is shutting itself down due to the restart command.

**Recommended Action** No action is required.

**Error Message** MSDP-6-SHUTDOWN Format: Shutting down MSDP - %s

**Explanation** MSDP process is shutting itself down.  
Parameters: Reason for shutdown ...

**Recommended Action** No action is required.

**Error Message** MSDP-6-UNKNOWN\_OPC Format: Received unknown mts opcode %d in %s

**Explanation** MSDP process received unknown Interprocess message, dropped.  
Parameters: MTS opcode, Function name ...

**Recommended Action** No action is required.

## OSPF Messages

This section contains the OSPF messages.

## OSPF-1

**Error Message** OSPF-1-INIT Format: Unable to %s %s

**Explanation** An internal software error occurred.  
Parameters: Action, Error ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

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**Error Message** OSPF-1-LOWMEM Format: Low memory condition: %s

**Explanation** The router did not have enough memory to store certain data structures.  
Parameters: Error ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** OSPF-1-MCASTJOIN Format: Unable to join %s group on interface %s

**Explanation** An internal software error occurred.  
Parameters: Multicast Group, Interface Id ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** OSPF-1-MCASTLEAVE Format: Unable to leave %s group on interface %s

**Explanation** An internal software error occurred.  
Parameters: Multicast Group, Interface Id ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** OSPF-1-MQSEND Format: Unable to send message %s to %s

**Explanation** An internal software error occurred.  
Parameters: Message, Destination ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** OSPF-1-NOMEM Format: Malloc (%ld bytes) failed for: %s

**Explanation** The router did not have enough memory to store mentioned data structures.  
Parameters: Size, Error ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** OSPF-1-SLABS Format: Could not create %s slabs

**Explanation** The router did not have enough memory to reserve space in advance for certain slab data structures.  
Parameters: Slab Type ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** OSPF-1-STARTTHREAD Format: Unable to start thread %s (%d), error %s

**Explanation** An internal software error occurred.  
Parameters: Thread name, Thread Id, Error ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** OSPF-1-TAG Format: Unable to retrieve service tag on %s supervisor

**Explanation** An internal software error occurred.  
Parameters: Active or Standby Supervisor ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** OSPF-1-TIMER Format: Unable to create %s timer on interface %s

**Explanation** An internal software error occurred.  
Parameters: Timer, Interface Id ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

## OSPF-2

**Error Message** OSPF-2-REDIST\_VPN Format: Received VPN routes without extended community for %s/%d

**Explanation** An internal error  
Parameters: None ...

**Recommended Action** No action is required.

## OSPF-3

**Error Message** OSPF-3-BFD\_SEND\_AUTO\_EXPIRY Format: BFD send auto expiry %s

**Explanation** OSPF could not send BFD auto expiry  
Parameters: Status ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-CLI\_ALL\_CMDS Format: Timed out waiting for CLI configuration (%s)

**Explanation** OSPF timed out waiting for CLI Server to send all OSPF configs  
Parameters: Error ...

**Recommended Action** No action is required.

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**Error Message** OSPF-3-CLI\_NON\_IF\_CMDS Format: Timed out waiting for router mode CLI configuration (%s)

**Explanation** OSPF timed out waiting for CLI Server to send router mode OSPF configs  
Parameters: Error ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-CMI\_ERR Format: CMI error: %s.

**Explanation** CMI returned an error  
Parameters: Error ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-CMI\_NO\_VRF\_ERR Format: CMI error: No %s VRF information found

**Explanation** CMI returned an error  
Parameters: Error ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-CTX Format: Error in subrouter context %s: %s

**Explanation** Error related to multiple subrouters and contexts  
Parameters: Context, Error ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-CTX\_IF Format: Error in subrouter context for interface %s: %s

**Explanation** Error related to interface context  
Parameters: Interface Id, Error ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-HA\_AREA Format: Unable to recreate area %d

**Explanation** OSPF could not do stateful restart  
Parameters: Area Id ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-HA\_INTF Format: Unable to recreate interface %s

**Explanation** OSPF could not do stateful restart  
Parameters: Interface Id ...

**Recommended Action** No action is required.

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**Error Message** OSPF-3-HA\_INTF\_AREA Format: Unable to add interface %s to area %s

**Explanation** OSPF could not do stateful restart  
Parameters: Interface Id, Area Id ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-HA\_LSDB\_AREA Format: Unable to find LSA area %s

**Explanation** OSPF could not do stateful restart  
Parameters: Area Id ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-HA\_LSDB\_INSTALL Format: Unable to install LSA %s, area %s %s

**Explanation** OSPF could not do stateful restart  
Parameters: LSA, Area Id, Interface Id ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-HA\_LSDB\_LINK Format: Unable to find link LSA interface/area

**Explanation** OSPF could not do stateful restart.

**Recommended Action** No action is required.

**Error Message** OSPF-3-HA\_LSID Format: Unable to reserve LSID %d for %s LSA %s

**Explanation** OSPF could not do stateful restart  
Parameters: LSA type, Interface name ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-HA\_NBR Format: Unable to recreate neighbor %s

**Explanation** OSPF could not do stateful restart  
Parameters: Neighbor Id ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-HA\_NBR\_INTF Format: Unable to find interface index %ld for neighbor %s

**Explanation** OSPF could not do stateful restart  
Parameters: Interface Index, Neighbor Id ...

**Recommended Action** No action is required.

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**Error Message** OSPF-3-HA\_NO\_SR Format: Unable to find sr %d

**Explanation** OSPF could not do stateful restart  
Parameters: Subrouter Id ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-HA\_SR Format: Unable to recreate sr %d

**Explanation** OSPF could not do stateful restart  
Parameters: Subrouter Id ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-HEAPSIZE Format: Error increasing heap size to %d, error %d

**Explanation** Reduced heap size will limit the LSDB size.  
Parameters: Size, Error ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-IF\_INVALID Format: Unable to find interface %s

**Explanation** OSPF could not find an interface  
Parameters: Interface name ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-INVALID\_TLV Format: Found corrupted TLV, LSA %s

**Explanation** Error while parsing TLV.  
Parameters: LSA ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-ISSU\_GR\_DISABLED Format: Aborting ISSU, GR is disabled in %d out of %d contexts Parameters: Contexts, Contexts ...

**Explanation** ISSU requires OSPF GR to be enabled for all contexts.

**Recommended Action** No action is required.

**Error Message** OSPF-3-ISSU\_GR\_FAILED Format: Aborting ISSU, GR failed in %d out of %d contexts Parameters: Contexts, Contexts ...

**Explanation** ISSU requires successful OSPF GR in all contexts.

**Recommended Action** No action is required.

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**Error Message** OSPF-3-ISSU\_GR\_IN\_HELPER\_MODE Format: Aborting ISSU, OSPF in GR helper mode in %d contexts Parameters: Contexts ...

**Explanation** ISSU requires stable OSPF topology in all contexts.

**Recommended Action** No action is required.

**Error Message** OSPF-3-ISSU\_GR\_IN\_PROGRESS Format: Aborting ISSU, GR in progress in %d out of %d contexts Parameters: Contexts, Contexts ...

**Explanation** ISSU requires stable OSPF topology in all contexts.

**Recommended Action** No action is required.

**Error Message** OSPF-3-MAXIFS Format: Exceeded the limit on interfaces per area [i.e %d]

**Explanation** Restricting the number of interfaces per area to avoid problems during lsa generation. Parameters: Interface Limit ...

**Recommended Action** Reduce the number of interfaces per area.

**Error Message** OSPF-3-MAXLSAS Format: Maximum number of LSAs in domain has been reached

**Explanation** The OSPF domain contains more LSAs than this router can store.

**Recommended Action** Redesign the network to redistribute less external routes into the OSPF domain.

**Error Message** OSPF-3-MIB\_FAIL Format: Failed to %s the MIB

**Explanation** Error while loading or unloading the MIB. Parameters: action ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-MTS\_BIND Format: Error returned from mts\_bind(), errno: %s

**Explanation** OSPF called an MTS API which returned an error. Parameters: Error ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-MTS\_DROP Format: Error returned from mts\_drop(), errno: %s

**Explanation** OSPF called an MTS API which returned an error. Parameters: Error ...

**Recommended Action** No action is required.

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**Error Message** OSPF-3-MTS\_NOTIFY Format: Error returned from mts\_send\_notify(),  
errno: %s

**Explanation** OSPF called an MTS API which returned an error.  
Parameters: Error ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-MTS\_RECV Format: Error returned from tsp\_mts\_recv(), errno: %s

**Explanation** OSPF called an MTS API which returned an error.  
Parameters: Error ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-PSS\_AREA Format: PSS %s for area %ld failed

**Explanation** OSPF called a PSS API which returned an error.  
Parameters: Action, Area Id ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-PSS\_GLOBAL Format: PSS %s for global data failed

**Explanation** OSPF called a PSS API which returned an error.  
Parameters: Action ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-PSS\_INTF Format: PSS %s for interface %s failed

**Explanation** OSPF called a PSS API which returned an error.  
Parameters: Action, Interface Id ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-PSS\_LSDB Format: PSS %s for LSA %s failed

**Explanation** OSPF called a PSS API which returned an error.  
Parameters: Action, LSA ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-PSS\_NBR Format: PSS %s for neighbor %s failed

**Explanation** OSPF called a PSS API which returned an error.  
Parameters: Action, Neighbor Id ...

**Recommended Action** No action is required.

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**Error Message** OSPF-3-PSS\_READ Format: PSS read for %s information failed

**Explanation** The system has detected an error.  
Parameters: Data ... ; Explanation: OSPF called a PSS API which returned an error.

**Recommended Action** No action is required.

**Error Message** OSPF-3-PSS\_SR Format: PSS %s for sr %ld failed

**Explanation** OSPF called a PSS API which returned an error.  
Parameters: Action, Subrouter Id ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-ROUTEDEL Format: Route deletion %s/%d failed

**Explanation** Internal Error.  
Parameters: Prefix, Length ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-SMALLBUF Format: %s packet doesn't fit in buffer (packet %d/  
buffer %d)

**Explanation** The router has allocated a packet buffer that was too small.  
Parameters: Packet Type, Packet Size, Buffer Size ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-TLV\_INTF Format: Failed to convert to %s for %s

**Explanation** OSPF called an TLV intf which returned an error.  
Parameters: Action, Data ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-UNAWAKABLE Format: Trying to awake unawakable thread %s

**Explanation** Thread cannot be wokenup at this time  
Parameters: Thread Name ...

**Recommended Action** No action is required.

**Error Message** OSPF-3-UNKNOWN SIG Format: Received unknown signal: %d

**Explanation** An unexpected software interruption was received.  
Parameters: Signal ...

**Recommended Action** No action is required.

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## OSPF-4

**Error Message** OSPF-4-AF\_NO\_FUNC Format: Function %s not supported by OSPF version %s

**Explanation** Function is not specified for the current address family  
Parameters: Function Name, OSPF Version ...

**Recommended Action** No action is required.

**Error Message** OSPF-4-AREA\_ERR Format: Packet from %s on %s received for wrong area %s

**Explanation** A OSPF packet not belonging to this area was received  
Parameters: Source IP address, Interface name, Area ID ...

**Recommended Action** No action is required.

**Error Message** OSPF-4-AUTH\_ERR Format: Received packet from %s on %s with bad authentication %hx

**Explanation** A OSPF packet with mismatched authentication type was received  
Parameters: Source IP address, Interface name, Type ...

**Recommended Action** No action is required.

**Error Message** OSPF-4-CKSM\_ERR Format: Bad OSPF checksum in packet %hx computed %hx from %s on %s

**Explanation** A OSPF packet with invalid checksum was received  
Parameters: Checksum value, Checksum value, Source IP address, Interface name ...

**Recommended Action** No action is required.

**Error Message** OSPF-4-CLEANUP Format: OSPF is exiting, reason %s(0x%x) ; Parameters: Reason string, Reason no. ...

**Explanation** OSPF has been deconfigured or restarted.

**Recommended Action** No action is required.

**Error Message** OSPF-4-DEST\_INVALID Format: Bad destination address %s

**Explanation** A OSPFv3 packet with muticast source address was received  
Parameters: Source IP address ...

**Recommended Action** No action is required.

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**Error Message** OSPF-4-DUPRID Format: Router %s on interface %s is using our routerid, packet dropped

**Explanation** Two routers are configured with the same router ID.  
Parameters: Router Id, Interface Id ...

**Recommended Action** Check all routers on the indicated interface for misconfigurations.

**Error Message** OSPF-4-IF\_ERR Format: Packet from %s received on %s interface %s

**Explanation** A OSPF packet not belonging to this interface was received  
Parameters: Source IP address, reason, Interface ...

**Recommended Action** No action is required.

**Error Message** OSPF-4-INVALIDOUT Format: Trying to send packet with packettype %d to %s on %s

**Explanation** The router tried to send unknown OSPF packet.  
Parameters: Packet Type, Destination, Interface Id ...

**Recommended Action** No action is required.

**Error Message** OSPF-4-NEIGH\_ERR Format: Neighbor %s not found, packet dropped

**Explanation** A non-hello OSPF packet with no neighbor was received  
Parameters: Source IP address ...

**Recommended Action** No action is required.

**Error Message** OSPF-4-PKTLEN\_ERR Format: Packet received from %s on %s has length %d which is less than %s %d

**Explanation** A OSPF packet with invalid length was received  
Parameters: Source IP address, Interface name, Packet length, Type, Header length ...

**Recommended Action** No action is required.

**Error Message** OSPF-4-PKTTYPER\_ERR Format: Unknown type %d received from %s on %s

**Explanation** A OSPF packet with incorrect packet type was received  
Parameters: Packet type, Source IP address, Interface name ...

**Recommended Action** No action is required.

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**Error Message** OSPF-4-REDIST\_MAX\_PFX Format: Redistribution prefix limit has been reached - %d prefixes

**Explanation** Check if redistribuTion of large number of prefixes is desired and has not been configured by mistake  
Parameters: Number of prefixes ...

**Recommended Action** No action is required.

**Error Message** OSPF-4-REDIST\_THR\_PFX Format: Redistribution prefix threshold has been reached - %d prefixes

**Explanation** Check if redistribuTion of large number of prefixes is desired and has not been configured by mistake  
Parameters: Number of prefixes ...

**Recommended Action** No action is required.

**Error Message** OSPF-4-RESTART\_SHUTDOWN Format: OSPF shutting self down via restart command

**Explanation** OSPF process is shutting itself down due to the restart command.

**Recommended Action** No action is required.

**Error Message** OSPF-4-SELF\_LSA Format: context %s: %s

**Explanation** Router received a newer copy of an LSA generated by itself. Two routers may be configured with the same router ID or a router which was disconnected from the network has come back.  
Parameters: Context, Message ...

**Recommended Action** Verify if the router ID for the router is unique in the network.

**Error Message** OSPF-4-SOURCE\_ERR Format: Bad source address %s - ours on %s

**Explanation** A OSPF packet with our own source address was received  
Parameters: IP address, Interface name ...

**Recommended Action** No action is required.

**Error Message** OSPF-4-SRC\_INVALID Format: Invalid src address %s, should not be seen on %s

**Explanation** A OSPF packet packet with source address not on this network was received  
Parameters: Source IP address, Interface name ...

**Recommended Action** No action is required.

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**Error Message** OSPF-4-SRC\_MCAST Format: Bad source address %s - multicast on %s

**Explanation** A OSPFv3 packet with muticast source address was received  
Parameters: Source IP address ...

**Recommended Action** No action is required.

**Error Message** OSPF-4-VERSION\_ERR Format: Bad ospf version %d received from %s on %s

**Explanation** A OSPF packet with incorrect version number was received  
Parameters: Version number, Source IP address, Interface name ...

**Recommended Action** No action is required.

**Error Message** OSPF-4-WRONGQ Format: Found wrong type of packet (%d) on internal %s queue

**Explanation** Did not expect the specified packet type on the given incoming message queue  
Parameters: Packet Type, Queue ...

**Recommended Action** No action is required.

## **OSPF-5**

**Error Message** OSPF-5-ADJCHANGE Format: Nbr %s on %s went %s

**Explanation** An OSPF neighborship has just been established. Or a neighborship has just been shutdown.  
Parameters: Neighbor Id, Interface Id, New State ...

**Recommended Action** No action is required.

**Error Message** OSPF-5-BFD\_DOWN Format: BFD state Down for %s on %s (area %s) BFD code %d

**Explanation** The system has detected an error.  
Parameters: Neighbor Id, Interface Id, Area Id, BFD code ... Explanation: OSPF received BFD down notification.

**Recommended Action** No action is required.

**Error Message** OSPF-5-NBRSTATE Format: Process %s, Nbr %s on %s from %s to %s, %s

**Explanation** The system has detected an error.  
Parameters: Process tag, Neighbor Id, Interface Id, Old State, New State, Event ... Explanation: An OSPF neighbor has just changed its state.

**Recommended Action** No action is required.

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## OSPF-6

**Error Message** OSPF-6-DECONFIG\_SHUTDOWN Format: OSPF shutting self down via deconfiguration

**Explanation** OSPF process is shutting itself down due to the deconfiguration command.

**Recommended Action** No action is required.

**Error Message** OSPF-6-HA\_DB\_REBUILD Format: HA run-time database buildup %s

**Explanation** OSPF stateful restart status  
Parameters: Action ...

**Recommended Action** No action is required.

**Error Message** OSPF-6-HA\_STATEFUL Format: Stateful HA %s

**Explanation** OSPF stateful restart status  
Parameters: Action ...

**Recommended Action** No action is required.

**Error Message** OSPF-6-MTS\_UNKNOWN\_MSG Format: Received unknown MTS message with opcode %d, dropping it

**Explanation** OSPF received an unknown MTS message. The message will be dropped  
Parameters: MTS Opcode ...

**Recommended Action** No action is required.

**Error Message** OSPF-6-SHUTDOWN\_REQUEST\_FAIL Format: OSPF shutdown request failed, %s

**Explanation** OSPF request to system manager for permission to shutdown was turned down.  
Parameters: Error ...

**Recommended Action** No action is required.

**Error Message** OSPF-6-START Format: Starting OSPF %s, %s

**Explanation** OSPF process is starting due to the specified reason.  
Parameters: Process name, Reason ...

**Recommended Action** No action is required.

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**Error Message** OSPF-6-UNKNOWN\_SHUTDOWN Format: OSPF shutting self down due to unknown reason

**Explanation** OSPF process is shutting itself down due to unknown reason.

**Recommended Action** No action is required.

## **PCL Messages**

This section contains the PCL messages.

### **PCL-2**

**Error Message** PCL-2-MALLOC\_FAILED Format: malloc() failed for allocating %s in %s()

**Explanation** PCL process is out of heap memory.

**Recommended Action** No action is required.

**Error Message** PCL-2-SLAB\_ALLOC\_FAILED Format: slab\_calloc() failed for allocating %s in %s()

**Explanation** PCL process is out of heap memory.

**Recommended Action** No action is required.

**Error Message** PCL-2-SMALLOC\_FAILED Format: smalloc() failed for allocating %s in %s()

**Explanation** PCL process is out of shared memory. This could be due to temporary increase in the number of policies configured to a very high value.

**Recommended Action** No action is required.

### **PCL-3**

**Error Message** PCL-3-API\_FAILED Format: %s - failed in %s()

**Explanation** An unexpected but manageable event has occurred.;

**Recommended Action** No action is required.

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**Error Message** PCL-3-API\_FAILED\_NUM Format: %s - failed for %d in %s()

**Explanation** An unexpected but manageable event has occurred.;

**Recommended Action** No action is required.

**Error Message** PCL-3-API\_FAILED\_NUM\_NUM Format: %s - failed for %d %d in %s()

**Explanation** An unexpected but manageable event has occurred.;

**Recommended Action** No action is required.

**Error Message** PCL-3-API\_FAILED\_STR Format: %s - failed for %s in %s()

**Explanation** An unexpected but manageable event has occurred.;

**Recommended Action** No action is required.

**Error Message** PCL-3-API\_FAILED\_STR\_NUM Format: %s - failed for %s %d in %s()

**Explanation** An unexpected but manageable event has occurred.;

**Recommended Action** No action is required.

**Error Message** PCL-3-API\_FAILED\_STR\_STR Format: %s - failed for %s %s in %s()

**Explanation** An unexpected but manageable event has occurred.;

**Recommended Action** No action is required.

**Error Message** PCL-3-MQ\_FAILED Format: %s failed, errno: %s in %s()

**Explanation** An unexpected but manageable event has occurred.;

**Recommended Action** No action is required.

**Error Message** PCL-3-MQ\_FAILED\_NAME Format: %s failed for client %s, errno: %s in %s()

**Explanation** An unexpected but manageable event has occurred.;

**Recommended Action** No action is required.

**Error Message** PCL-3-MQ\_FAILED\_PID Format: %s failed to client pid: %d, errno: %s in %s()

**Explanation** An unexpected but manageable event has occurred.;

**Recommended Action** No action is required.

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**Error Message** PCL-3-MTS\_DROP Format: Error returned from mts\_drop(), errno: %s

**Explanation** PCL called an MTS API which returned an error.

**Recommended Action** No action is required.

**Error Message** PCL-3-MTS\_RECV Format: Error returned from tsp\_mts\_recv(), errno: %s

**Explanation** PCL called an MTS API which returned an error.

**Recommended Action** No action is required.

**Error Message** PCL-3-WORK\_THREAD\_FAILIURE Format: %s failed for policy %s %s to client %s count %d in %s()

**Explanation** PCL work thread item failed after repeated attempts. This could be either due to too many policies configured or some of PCL client's message queues are full.

**Recommended Action** No action is required.

## PCL-6

**Error Message** PCL-6-MTS\_UNKNOWN\_MSG Format: Received unknown MTS message with opcode %d, dropping it

**Explanation** PCL received an unknown message. The message is dropped.

**Recommended Action** No action is required.

**Error Message** PCL-6-PKT\_LOG Format: %s

**Explanation** Packet header logging by access-rules.

**Recommended Action** No action is required.

## PCL-7

**Error Message** PCL-7-DEBUG Format: %s

**Explanation** PCL Debug information.

**Recommended Action** No action is required.

## PIM Messages

This section contains the PIM messages.

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## PIM-2

**Error Message** PIM-2-SHM\_LOCK\_CREAT Format: Failed to create shared memory lock: %s

**Explanation** The system has failed to initialize.  
Parameters: Error Name ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** PIM-2-STARTUP\_DEBUG Format: %s in %s

**Explanation** The system has failed to initialize.  
Parameters: Error, Function Name ...

**Recommended Action** No action is required.

## PIM-3

**Error Message** PIM-3-ADD\_ROUTE Format: Couldn't add PIM route %s in %s

**Explanation** PIM failed to update the local route-table entry.  
Parameters: Addresses, Function Name ...

**Recommended Action** No action is required.

**Error Message** PIM-3-API\_CLOSE Format: Couldn't close %s API

**Explanation** PIM failed to close API opened with the component.  
Parameters: Component Name ...

**Recommended Action** No action is required.

**Error Message** PIM-3-API\_FAILED Format: %s failed in %s

**Explanation** PIM process failed in invoking an API.  
Parameters: Function Name ...

**Recommended Action** No action is required.

**Error Message** PIM-3-API\_INIT Format: Couldn't initialize %s API

**Explanation** PIM failed to open API to interact with the component.  
Parameters: Component Name ...

**Recommended Action** No action is required.

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**Error Message** PIM-3-ATTACH\_SHM Format: Couldn't attach to shm of %s

**Explanation** PIM process failed to open a shared memory resource.  
Parameters: Shared Memory Segment Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-AVL\_ERROR Format: AVL-tree operation %s failed for %s

**Explanation** PIM process failed in an AVL-tree manipulation.  
Parameters: AVL tree operation, Tree name ...

**Recommended Action** No action is required.

**Error Message** PIM-3-BF\_CONVERT Format: bitfield\_convert() failed

**Explanation** PIM failed to convert a compressed bitfield.

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-BF\_CREATE Format: Couldn't create %s bitfield

**Explanation** PIM failed to create bitfield resource.  
Parameters: List Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-BFD\_ADD\_FAIL Format: %s request for interface %s failed in %s  
Explanation: BFD session add failed

**Explanation** The system has detected an error.  
Parameters: API name, Interface name, Function name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-BFD\_API\_FAIL Format: %s request failed in %s Explanation: BFD API failed

**Explanation** The system has detected an error.  
Parameters: API name, Function name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-BFD\_SEND\_AUTO\_EXPIRY Format: Unable to start BFD staling, error %s

**Explanation** PIM BFD staling API failed  
Parameters: Error string ...

**Recommended Action** Dump core, and then restart component.

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**Error Message** PIM-3-BFD\_SES\_REMOVE\_ALL Format: Unable to cleanup the BFD sessions during deconfiguration, error %s

**Explanation** The system is unable to cleanup BFD sessions  
Parameters: Error string ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** PIM-3-BIND Format: bind() on %s failed: %s

**Explanation** PIM failed to bind UDP socket. Auto-RP will not work.  
Parameters: Function Error String ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-COMP\_DEREG Format: Unable to de-register with %s

**Explanation** PIM failed to de-register with a server component.  
Parameters: Component Name ...

**Recommended Action** No action is required.

**Error Message** PIM-3-COMP\_REG Format: Unable to register with %s

**Explanation** PIM failed to register with a server component.  
Parameters: Component Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-CONFCHECK Format: Failed to %s Tunnel multicast concheck Capability. error: %s

**Explanation** Could not add/delete confcheck capability  
Parameters: Operation, Error ...

**Recommended Action** No action is required.

**Error Message** PIM-3-CREATE\_ROUTE Format: Couldn't create PIM route for %s in %s

**Explanation** PIM failed to update the local route-table entry.  
Parameters: Addresses, Function Name ...

**Recommended Action** No action is required.

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**Error Message** PIM-3-CV\_INIT Format: Couldn't init cond var %s

**Explanation** PIM process failed to initialize conditional-variable resource.  
Parameters: Thread Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-DEL\_IF Format: Couldn't delete interface %s from PIM route %s in %s ; Explanation: PIM failed to delete the outgoing interface from route-table entry.

**Explanation** The system has detected an error.  
Parameters: Interface, Addresses, Function Name ...

**Recommended Action** No action is required.

**Error Message** PIM-3-DEL\_ROUTE Format: Couldn't delete PIM route %s in %s

**Explanation** PIM failed to delete the local route-table entry.  
Parameters: Addresses, Function Name ...

**Recommended Action** No action is required.

**Error Message** PIM-3-FREE\_ROUTE Format: Couldn't free PIM route %s in %s

**Explanation** PIM failed to delete the route-table entry.  
Parameters: Addresses, Function Name ...

**Recommended Action** No action is required.

**Error Message** PIM-3-GET\_RP\_FAIL Format: %s: %s for group %s

**Explanation** PIM API for getting RP address failed  
Parameters: Function Name, reason, group address ...

**Recommended Action** No action is required.

**Error Message** PIM-3-HEARTBEAT\_TIMER Format: Unable to create heartbeat timer in %s

**Explanation** The system is unable to create heartbeat timer  
Parameters: Function Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-IGMP\_DOWN Format: Couldn't enable PIM on %s, IGMP is not up

**Explanation** PIM is not enabled on the interface, as it requires IGMP to be up.  
Parameters: Interface ...

**Recommended Action** No action is required.

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**Error Message** PIM-3-IM\_EXT Format: Couldn't set IM-extension for interface %s

**Explanation** PIM process failed to set IM extension.  
Parameters: Interface ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-INIT\_MTS\_SAP Format: mts\_bind() failed in pim\_init\_mts(),  
errno: %s

**Explanation** The system is unable to open MTS SAP  
Parameters: Error String ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-LIB\_API\_FAILED Format: %s failed in %s

**Explanation** PIM client failed in invoking an API.  
Parameters: Function Name ...

**Recommended Action** No action is required.

**Error Message** PIM-3-LIB\_API\_INIT Format: Couldn't initialize %s API

**Explanation** PIM failed to open API to interact with the component.  
Parameters: Component Name ...

**Recommended Action** No action is required.

**Error Message** PIM-3-LIB\_MALLOC Format: Private mem malloc (%lu) failed in %s

**Explanation** Process is out of free private memory.  
Parameters: Type of malloc(size), Function Name ...

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** PIM-3-LIB\_MTS\_SEND Format: mts\_send() failed for %s, errno: %s

**Explanation** Process called an MTS API which returned an error.  
Parameters: Error String ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-LIB\_SM\_CLOSE Format: Couldn't close shm segment %s

**Explanation** PIM process failed to remove shared memory resource.  
Parameters: Shared Memory Segment Name ...

**Recommended Action** No action is required.

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**Error Message** PIM-3-LIB\_SM\_OPEN Format: Couldn't open shm segment %s

**Explanation** PIM process failed to initialize shared memory resource.  
Parameters: Shared Memory Segment Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-MALLOC Format: Private mem malloc (%lu) failed in %s

**Explanation** PIM process is out of free private memory.  
Parameters: Type of malloc(size), Function Name ...

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** PIM-3-MCEC\_MSG Format: %s

**Explanation** PIM VPC related messages  
Parameters: String ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-MQCLOSE Format: Couldn't close %s mq: %s

**Explanation** PIM failed to close the message-queue resource.

**Recommended Action** No action is required.

**Error Message** PIM-3-MQFLUSH Format: Couldn't flush %s mq: %s

**Explanation** PIM failed to remove stale messages from the message-queue.

**Recommended Action** No action is required.

**Error Message** PIM-3-MQLOOP\_CREATE Format: Couldn't create %s mqloop: %s

**Explanation** PIM failed to create the mqloop resource.  
Parameters: MSG Queue Name, Error String ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-MQLOOP\_REGHAND Format: Couldn't register all handlers for %s mqloop

**Explanation** PIM failed to initialize handlers the mqloop resource.  
Parameters: MSG Queue Name ...

**Recommended Action** Dump core, and then restart component.

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**Error Message** PIM-3-MQLOOP\_SHUTDOWN Format: Couldn't shutdown %s mqloop

**Explanation** PIM failed to shutdown the mqloop resource.  
Parameters: MSG Queue Name ...

**Recommended Action** No action is required.

**Error Message** PIM-3-MQLOOP\_START Format: Couldn't start %s mqloop

**Explanation** PIM failed to initialize the mqloop resource.  
Parameters: MSG Queue Name, Error String ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-MQOPEN Format: Couldn't open %s mq: %s

**Explanation** PIM failed to open the message-queue resource.  
Parameters: Component, Function Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-MQSEND Format: mq\_send() error on %s queue in %s

**Explanation** PIM failed to send an IPC message on the message-queue.  
Parameters: Component, Function Name ...

**Recommended Action** No action is required.

**Error Message** PIM-3-MRIB\_ADD\_ROUTE Format: MRIB add route failed in %s

**Explanation** PIM failed to add route in MRIB.  
Parameters: Function Name ...

**Recommended Action** No action is required.

**Error Message** PIM-3-MRIB\_DEL\_ROUTE Format: MRIB delete route failed in %s

**Explanation** PIM failed to delete route in MRIB.  
Parameters: Function Name ...

**Recommended Action** No action is required.

**Error Message** PIM-3-MRIB\_NO\_SHARED\_TREE Format: MRIB shared tree entry absent for group %s/%d

**Explanation** MRIB route unexpectedly absent for a group entry.  
Parameters: Group address Group mask length ...

**Recommended Action** No action is required.

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**Error Message** PIM-3-MSDP\_ORIG\_DATASA Format: Couldn't originate MSDP data SA in %s

**Explanation** PIM failed to notify MSDP to originate data SA message.  
Parameters: Function Name ...

**Recommended Action** No action is required.

**Error Message** PIM-3-MTS\_DROP Format: Error returned from mts\_drop(), errno: %s

**Explanation** PIM called an MTS API which returned an error.  
Parameters: Error String ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-MTS\_INIT Format: Could not initialize MTS for %s

**Explanation** The system is unable to register opcodes  
Parameters: Service / Queue description ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-MTS\_RECV Format: Error returned from mts\_recv(), errno: %s

**Explanation** PIM called an MTS API which returned an error.  
Parameters: Error String ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-MTS\_REGISTER Format: mts\_register failed for PIM: %s

**Explanation** PIM was unable to register an MTS notification.

**Recommended Action** No action is required.

**Error Message** PIM-3-MTS\_SEND Format: mts\_send() failed for %s, errno: %s

**Explanation** PIM called an MTS API which returned an error.  
Parameters: Error String ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-MTS\_UNBIND Format: mts\_unbind() failed in %s for queue %s with err: %s

**Explanation** mts\_unbind failure  
Parameters: Function name, Queue name, Error String ...

**Recommended Action** Dump core, and then restart component.

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**Error Message** PIM-3-MTSOPEN Format: Couldn't bind %s mts-q: %s

**Explanation** PIM failed to open the MTS-queue resource.  
Parameters: MSG Queue Name, Error String ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-MUTEX\_INIT Format: Couldn't init mutex %s

**Explanation** PIM process failed to initialize mutex system resource.  
Parameters: Thread Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-MV\_INIT Format: Couldn't init mutex %s

**Explanation** PIM process failed to initialize mutex system resource.  
Parameters: Data type ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-NO\_SET\_PRIORITY Format: Failed to set policy or priority

**Explanation** PIM process could not set itself process priority, exiting.

**Recommended Action** No action is required.

**Error Message** PIM-3-OIM\_REGISTER\_FAIL Format: Unable to register with OIM module in %s  
Explanation: MVPN module couldnt register with OIM module

**Explanation** The system has detected an error.  
Parameters: API name, Function name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-OPCODE\_REG Format: Could not register opcode 0x%x, reason %s

**Explanation** The system is unable to register opcodes  
Parameters: MTS Opcode, Error string ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-PIM\_API\_NOT\_INIT Format: PIM API not initialized

**Explanation** PIM API is not initialized.

**Recommended Action** No action is required.

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**Error Message** PIM-3-PIM\_CIB Format: Couldn't find PIM VRF for %s

**Explanation** PIM failed to obtain its VRF information block.  
Parameters: Interface ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-PIM\_EXISTS Format: PIM is already running, process exiting

**Explanation** Another PIM process is already running, this process will shut down.

**Recommended Action** No action is required.

**Error Message** PIM-3-PIM\_INIT Format: PIM init failed: %s

**Explanation** PIM process initialization failed.  
Parameters: Component Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-POLICY\_INVALID\_BINDACK Format: Invalid RPM bind ack in %s

**Explanation** PIM received invalid policy response from RPM.

**Recommended Action** No action is required.

**Error Message** PIM-3-POLICY\_INVALID\_TYPE Format: Invalid RPM type %d in %s

**Explanation** PIM received invalid policy-type from RPM.

**Recommended Action** No action is required.

**Error Message** PIM-3-PSS\_FAILED Format: PSS operation %s failed

**Explanation** PIM process failed in a PSS operation.  
Parameters: Operation Name ...

**Recommended Action** No action is required.

**Error Message** PIM-3-PT\_ADD Format: Couldn't add %s to local PT

**Explanation** PIM failed to update the local route-table entry.  
Parameters: Addresses ...

**Recommended Action** No action is required.

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**Error Message** PIM-3-PT\_DEL Format: Couldn't delete %s from local PT

**Explanation** PIM failed to delete the local route-table entry.  
Parameters: Address ...

**Recommended Action** No action is required.

**Error Message** PIM-3-PTHREAD\_CREATE Format: Couldn't create thread %s

**Explanation** PIM process failed to create a task thread.  
Parameters: Thread Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-RDLOCK\_ASSERT Format: %s:%d: Assert, read-lock not acquired

**Explanation** Caller Failed to get PIM Shared Memory read lock  
Parameters: Function Name, Line ...

**Recommended Action** No action is required.

**Error Message** PIM-3-RESERVE\_LIMIT Format: Exceeded reserve-limit for VRF %s - dropping

**Explanation** Exceeded the reserve-limit for VRF  
Parameters: VRF ...

**Recommended Action** No action is required.

**Error Message** PIM-3-RESTART\_REASON Format: PIM process has restarted, restart reason: %s\n

**Explanation** PIM is restoring the routes it had added in previous instance.  
Parameters: Restart Reason ...

**Recommended Action** No action is required.

**Error Message** PIM-3-RLIMIT Format: Couldn't set PIM data segment size to %lu

**Explanation** PIM process could not set a memory resource limit, exiting.  
Parameters: Segment Size ...

**Recommended Action** No action is required.

**Error Message** PIM-3-ROUTE\_LOOKUP Format: Couldn't find PIM route %s

**Explanation** PIM failed to find entry in the local route-table.  
Parameters: Address ...

**Recommended Action** No action is required.

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**Error Message** PIM-3-SETSOCKOPT Format: setsockopt() on %s failed: %s

**Explanation** PIM failed in UDP socket operation. Auto-RP will not work.  
Parameters: Message String Error String ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-SETUP\_ROUTE Format: Couldn't setup PIM route %s in %s

**Explanation** PIM failed to install route in the local route-table.  
Parameters: Address, Function Name ...

**Recommended Action** No action is required.

**Error Message** PIM-3-SG\_EXP\_TMR\_VRF Format: \ip pim sg-expiry-timer\ value in VRF %s not supported in %s, please reconfigure within range %d-%d

**Explanation** Configuration not supported in ISSU target version, please reconfigure  
Parameters: VRF name, lower bound, upper bound ...

**Recommended Action** ACTION\_SW\_NONE.

**Error Message** PIM-3-SG\_EXP\_TMR\_VRFS Format: \ip pim sg-expiry-timer\ value in %d VRFs not supported in %s, please reconfigure within range %d-%d

**Explanation** Configuration not supported in ISSU target version, please reconfigure  
Parameters: VRF count, lower bound, upper bound ...

**Recommended Action** ACTION\_SW\_NONE.

**Error Message** PIM-3-SHARED\_DB\_PUB\_INIT Format: Could not do shared database publisher initialization for interfaces rc=0x%x [%s]

**Explanation** The system is unable to do shared db publisher initialization  
Parameters: Status Error, Syserror string ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-SHUTDOWN\_FM Format: FM could not shut down PIM process

**Explanation** FM could not shut down PIM process.

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-SLAB\_ALLOC Format: Slab alloc of type %s failed in %s

**Explanation** PIM process failed to allocate Slab memory.  
Parameters: Structure Type, Function Name ...

**Recommended Action** Configure the network or router to decrease the number of routes.

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**Error Message** PIM-3-SLAB\_CREATE Format: Slab alloc of type %s failed

**Explanation** PIM process failed to allocate Slab memory.  
Parameters: Structure Type ...

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** PIM-3-SM\_CREATE Format: Couldn't create shm segment %s

**Explanation** PIM process failed to initialize shared memory resource.  
Parameters: Shared Memory Segment Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-SMALLOC Format: Shared mem malloc (%lu) failed in %s

**Explanation** PIM process is out of free shared memory.  
Parameters: Type of malloc(size), Function Name ...

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** PIM-3-SOCKET Format: socket() for %s failed: %s

**Explanation** PIM failed to obtain UDP socket. Auto-RP will not work.  
Parameters: Function Error String ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-STATE\_LIMIT Format: Exceeded state-limit for VRF %s - dropping

**Explanation** Exceeded the state-limit for VRF  
Parameters: VRF ...

**Recommended Action** No action is required.

**Error Message** PIM-3-SUBCR\_INIT Format: Could not initialize shared database client for interfaces rc=0x%x [%s]

**Explanation** The system is unable to do subscRIBer init to access IM shared-dbs  
Parameters: Status Error, Syserror string ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-SYSMGR\_DISPATCH Format: Error returned from sysmgr\_dispatch(), errno: %s

**Explanation** PIM called the system manager API which returned an error.

**Recommended Action** Dump core, and then restart component.

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**Error Message** PIM-3-THREAD\_SHUTDOWN Format: Couldn't shutdown thread %s

**Explanation** PIM failed to shut down a task thread.  
Parameters: Thread Name ...

**Recommended Action** No action is required.

**Error Message** PIM-3-TIMER\_CREATE Format: Couldn't create %s timer for %s

**Explanation** PIM failed to initialize timer resource.  
Parameters: Timer Name, Timer description ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-TIMER\_SET\_INIT Format: Couldn't init %s active timer set

**Explanation** PIM failed to initialize timer resource.  
Parameters: Timer Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-TIMER\_START Format: Couldn't start %s timer

**Explanation** PIM failed to initialize timer resource.  
Parameters: Timer Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-TUNNEL\_ADD\_TLV\_FAIL Format: Unable to add tunnel tlv %s into the list for vrf %s Explanation: MVPN tunnel setup failed

**Explanation** The system has detected an error.  
Parameters: Tlv Type, VRF name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-TUNNEL\_CREATE\_FAIL Format: Unable to setup tunnel interface for vrf %s failed in %s Explanation: MVPN tunnel setup failed

**Explanation** The system has detected an error.  
Parameters: VRF name, Function name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-TXLIST\_CREATE Format: Couldn't create txlist for %s

**Explanation** PIM failed to create txlist resource.  
Parameters: Data type ...

**Recommended Action** Dump core, and then restart component.

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**Error Message** PIM-3-UDP\_READ Format: Error reading UDP socket

**Explanation** UDP Socket Error.

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-UDP\_SENDTO Format: udp\_sendto() on %s failed: %s

**Explanation** PIM failed to send over UDP socket.  
Parameters: Message String Error String ...

**Recommended Action** No action is required.

**Error Message** PIM-3-URIB\_CONTEXT Format: Couldn't get URIB VRF %s

**Explanation** PIM failed to obtain unicast routing VRF from URIB.

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-3-WRLOCK\_ASSERT Format: %s:%d: Assert, write-lock not acquired

**Explanation** Caller Failed to get PIM Shared Memory write lock  
Parameters: Function Name, Line ...

**Recommended Action** No action is required.

## PIM-4

**Error Message** PIM-4-DUP\_VPC\_NBR Format: Unexpected 2nd vPC peer %s detected (peer %s) on %s (domain %d misconfig?)

**Explanation** The system is unable to register opcodes  
Parameters: Service / Queue description ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM-4-HELLO\_INT Format: Configured PIM hello interval %d on interface %s is less than the supported minimum value of %d, updating the interval to minimum value\n

**Explanation** PIM minimum hello interval.  
Parameters: Hello interval, Interface, Min Hello interval ...

**Recommended Action** No action is required.

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## PIM-5

**Error Message** PIM-5-DR\_CHANGE Format: DR change from %s to %s on interface %s

**Explanation** PIM Designated router changed on the interface.  
Parameters: Old DR address, New DR address, Interface ...

**Recommended Action** No action is required.

**Error Message** PIM-5-NBR\_CHANGE Format: Neighbor %s %s on interface %s

**Explanation** PIM neighbor went up/down due to Hello-message seen/lost.  
Parameters: Neighbor IP address, Neighbor state, Interface ...

**Recommended Action** No action is required.

## PIM-6

**Error Message** PIM-6-IF\_DEPEND Format: Removed interface (%s) has %s dependency

**Explanation** There is residual configuration on the deleted interface.  
Parameters: Interface name, Dependent Config Command ...

**Recommended Action** No action is required.

**Error Message** PIM-6-MAX\_GRANGES Format: Max Granges allowed to be configured for use shared tree config is %d

**Explanation** Exceeded the group range limit.

**Recommended Action** No action is required.

**Error Message** PIM-6-MAX\_RPS Format: Cannot store bidir-RP %s, a maximum of %d are supported

**Explanation** Due to hardware limitations, there is a maximum number of Bidir-PIM RPs that can be stored.

**Recommended Action** No action is required.

**Error Message** PIM-6-MQFLUSHED Format: Flushing %lu messages from %s mq

**Explanation** Flushing old residual messages from the message-queue.

**Recommended Action** No action is required.

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**Error Message** PIM-6-MQLOOP\_UNKNOWN\_MSG Format: Received unknown message %d/%d

**Explanation** PIM process received unknown Interprocess message, dropped.

**Recommended Action** No action is required.

**Error Message** PIM-6-NEGATIVE\_PREFIX Format: Group prefix %s/%d from RP %s has negative-bit set, ignore group entry

**Explanation** The RP is advertising a group range to be in dense-mode. This implementation only supports sparse-mode so the group entry will be ignored.  
Parameters: Group Address, Mask length, RP Address ...

**Recommended Action** No action is required.

**Error Message** PIM-6-RESERVE\_LIMIT\_WARNING Format: Exceeded 80% of the reserve-limit for VRF %s

**Explanation** Exceeded 80% of the reserve-limit for VRF  
Parameters: VRF ...

**Recommended Action** No action is required.

**Error Message** PIM-6-RESTART\_SHUTDOWN Format: PIM shutting self down via restart command

**Explanation** PIM process is shutting itself down due to the restart command.

**Recommended Action** No action is required.

**Error Message** PIM-6-SHUTDOWN Format: Shutting down PIM process

**Explanation** PIM received a shutdown request.

**Recommended Action** No action is required.

**Error Message** PIM-6-SHUTDOWN\_SELF Format: PIM shutting self down

**Explanation** PIM process is shutting itself down.

**Recommended Action** No action is required.

**Error Message** PIM-6-STATE\_LIMIT\_WARNING Format: Exceeded 80% of the state-limit for VRF %s

**Explanation** Exceeded 80% of the state-limit for VRF  
Parameters: VRF ...

**Recommended Action** No action is required.

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**Error Message** PIM6-6-UNKNOWN\_OPC Format: Received unknown mts opcode %d

**Explanation** PIM process received unknown Interprocess message, dropped.  
Parameters: MTS Opcode ...

**Recommended Action** No action is required.

## PIM6 Messages

This section contains the PIM6 messages.

### PIM6-2

**Error Message** PIM6-2-SHM\_LOCK\_CREAT Format: Failed to create shared memory lock: %s

**Explanation** The system has failed to initialize.  
Parameters: Error Name ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** PIM6-2-STARTUP\_DEBUG Format: %s in %s

**Explanation** The system has failed to initialize.  
Parameters: Error, Function Name ...

**Recommended Action** No action is required.

### PIM6-3

**Error Message** PIM6-3-ADD\_ROUTE Format: Couldn't add PIM6 route %s in %s

**Explanation** PIM6 failed to update the local route-table entry.  
Parameters: Addresses, Function Name ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-API\_CLOSE Format: Couldn't close %s API

**Explanation** PIM6 failed to close API opened with the component.  
Parameters: Component Name ...

**Recommended Action** No action is required.

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**Error Message** PIM6-3-API\_FAILED Format: %s API failed in %s

**Explanation** API call failed in PIM6.

**Recommended Action** No action is required.

**Error Message** PIM6-3-API\_INIT Format: Couldn't initialize %s API

**Explanation** PIM6 failed to open API to interact with the component.  
Parameters: Component Name ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-ATTACH\_SHM Format: Couldn't attach to shm of %s

**Explanation** PIM6 process failed to open a shared memory resource.  
Parameters: Shared Memory Segment Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-BF\_CONVERT Format: bitfield\_convert() failed

**Explanation** PIM6 failed to convert a compressed bitfield.  
Parameters: Function Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-BF\_CREATE Format: Couldn't create %s bitfield

**Explanation** PIM6 failed to create bitfield resource.  
Parameters: List Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-BIND Format: bind() on %s failed: %s

**Explanation** PIM6 failed to bind UDP socket. Auto-RP will not work.  
Parameters: Function Error String ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-COMP\_DEREG Format: Unable to de-register with %s

**Explanation** PIM6 failed to de-register with a server component.  
Parameters: Component Name ...

**Recommended Action** No action is required.

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**Error Message** PIM6-3-COMP\_REG Format: Unable to register with %s

**Explanation** PIM6 failed to register with a server component.  
Parameters: Component Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-CREATE\_ROUTE Format: Couldn't create PIM6 route for %s in %s

**Explanation** PIM6 failed to update the local route-table entry.  
Parameters: Addresses, Function Name ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-CV\_INIT Format: Couldn't init cond var %s

**Explanation** PIM6 process failed to initialize conditional-variable resource.  
Parameters: Thread Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-DEL\_IF Format: Couldn't delete interface %s from PIM6 route %s in %s

**Explanation** PIM6 failed to delete the outgoing interface from route-table entry.  
Parameters: Interface, Addresses, Function Name ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-DEL\_ROUTE Format: Couldn't delete PIM6 route %s in %s

**Explanation** PIM6 failed to delete the local route-table entry.  
Parameters: Addresses, Function Name ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-FREE\_ROUTE Format: Couldn't free PIM6 route %s in %s

**Explanation** PIM6 failed to delete the route-table entry.  
Parameters: Addresses, Function Name ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-HEARTBEAT\_TIMER Format: Unable to create heartbeat timer in %s

**Explanation** The system is unable to create heartbeat timer  
Parameters: Function Name ...

**Recommended Action** Dump core, and then restart component.

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**Error Message** PIM6-3-INIT\_MTS\_SAP Format: mts\_bind() failed in pim\_init\_mts(),  
errno: %s

**Explanation** The system is unable to open MTS SAP

Parameters: Error String ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-INVALID\_MBUF Format: Received invalid mbuf pointer in %s

**Explanation** PIM6 received invalid data buffer, discarded.

**Recommended Action** No action is required.

**Error Message** PIM6-3-LIB\_API\_FAILED Format: %s API failed in %s

**Explanation** API call failed in PIM6 library.

**Recommended Action** No action is required.

**Error Message** PIM6-3-LIB\_API\_INIT Format: Couldn't initialize %s API

**Explanation** PIM6 failed to open API to interact with the component.

Parameters: Component Name ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-LIB\_MALLOC Format: Private mem malloc (%lu) failed in %s

**Explanation** Process is out of free private memory.

Parameters: Type of malloc(size), Function Name ...

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** PIM6-3-LIB\_SM\_CLOSE Format: Couldn't close shm segment %s

**Explanation** PIM6 process failed to remove shared memory resource.

Parameters: Shared Memory Segment Name ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-LIB\_SM\_OPEN Format: Couldn't open shm segment %s

**Explanation** PIM6 process failed to initialize shared memory resource.

Parameters: Shared Memory Segment Name ...

**Recommended Action** Dump core, and then restart component.

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**Error Message** PIM6-3-M6RIB\_ADD\_ROUTE Format: M6RIB add route failed in %s

**Explanation** PIM6 failed to add route in MRIB.  
Parameters: Function Name ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-M6RIB\_DEL\_ROUTE Format: M6RIB delete route failed in %s

**Explanation** PIM6 failed to delete route in MRIB.  
Parameters: Function Name ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-M6RIB\_NO\_SHARED\_TREE Format: M6RIB shared tree entry absent for group %s/%d

**Explanation** M6RIB route unexpectedly absent for a group entry.  
Parameters: Group address Group mask length ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-MALLOC Format: Private mem malloc (%lu) failed in %s

**Explanation** PIM6 process is out of free private memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** PIM6-3-MQCLOSE Format: Couldn't close %s mq: %s

**Explanation** PIM6 failed to close the message-queue resource.  
Parameters: MSG Queue Name, Error String ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-MQFLUSH Format: Couldn't flush %s mq: %s

**Explanation** PIM6 failed to remove stale messages from the message-queue.

**Recommended Action** No action is required.

**Error Message** PIM6-3-MQLOOP\_CREATE Format: Couldn't create %s mqloop: %s

**Explanation** PIM6 failed to create the mqloop resource.

**Recommended Action** Dump core, and then restart component.

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**Error Message** PIM6-3-MQLOOP\_REGHAND Format: Couldn't register all handlers for %s mqloop

**Explanation** PIM6 failed to initialize handlers the mqloop resource.  
Parameters: MSG Queue Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-MQLOOP\_SHUTDOWN Format: Couldn't shutdown %s mqloop

**Explanation** PIM6 failed to shutdown the mqloop resource.  
Parameters: MSG Queue Name ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-MQLOOP\_START Format: Couldn't start %s mqloop

**Explanation** PIM6 failed to initialize the mqloop resource.  
Parameters: MSG Queue Name, Error String ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-MQOPEN Format: Couldn't open %s mq: %s

**Explanation** PIM6 failed to open the message-queue resource.  
Parameters: Component, Function Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-MQSEND Format: mq\_send() error on %s queue in %s

**Explanation** PIM6 failed to send an IPC message on the message-queue.  
Parameters: Component, Function Name ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-MTS\_DROP Format: Error returned from mts\_drop(), errno: %s

**Explanation** PIM6 called an MTS API which returned an error.  
Parameters: Error String ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-MTS\_INIT Format: Could not initialize MTS for %s

**Explanation** The system is unable to register opcodes  
Parameters: Service / Queue description ...

**Recommended Action** Dump core, and then restart component.

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**Error Message** PIM6-3-MTS\_RECV Format: Error returned from mts\_recv(), errno: %s

**Explanation** PIM6 called an MTS API which returned an error.  
Parameters: Error String ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-MTSOPEN Format: Couldn't open %s mts-q: %s

**Explanation** PIM6 failed to open the MTS-queue resource.  
Parameters: MSG Queue Name, Error String ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-MUTEX\_INIT Format: Couldn't init mutex %s

**Explanation** PIM6 process failed to initialize mutex system resource.  
Parameters: Thread Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-NO\_SET\_PRIORITY Format: Failed to set policy or priority

**Explanation** PIM6 process could not set itself process priority, exiting.

**Recommended Action** No action is required.

**Error Message** PIM6-3-OPCODE\_REG Format: Could not register opcode 0x%x, reason %s

**Explanation** The system is unable to register opcodes  
Parameters: MTS Opcode, Error string ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-PIM6\_API\_NOT\_INIT Format: PIM6 API not initialized

**Explanation** PIM6 API is not initialized.  
Parameters: Thread Name ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-PIM6\_CIB Format: Couldn't find PIM6 VRF for %s

**Explanation** PIM6 failed to obtain its VRF information block.

**Recommended Action** Dump core, and then restart component.

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**Error Message** PIM6-3-PIM6\_EXISTS Format: PIM6 is already running, process exiting

**Explanation** Another PIM6 process is already running, this process will shut down.

**Recommended Action** No action is required.

**Error Message** PIM6-3-PIM6\_INIT Format: PIM6 init failed: %s

**Explanation** PIM6 process initialization failed.

Parameters: Component Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-POLICY\_INVALID\_BINDACK Format: Invalid RPM bind ack in %s

**Explanation** PIM6 received invalid policy response from RPM.

**Recommended Action** No action is required.

**Error Message** PIM6-3-POLICY\_INVALID\_TYPE Format: Invalid RPML type %d in %s

**Explanation** PIM6 received invalid policy-type from RPM.

**Recommended Action** No action is required.

**Error Message** PIM6-3-PSS\_FAILED Format: PSS operation %s failed

**Explanation** PIM6 process failed in a PSS operation.

Parameters: Operation Name ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-PT\_ADD Format: Couldn't add %s to local PT

**Explanation** PIM6 failed to update the local route-table entry.

Parameters: Addresses ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-PT\_DEL Format: Couldn't delete %s from local PT

**Explanation** PIM6 failed to delete the local route-table entry.

Parameters: Address ...

**Recommended Action** No action is required.

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**Error Message** PIM6-3-PTHREAD\_CREATE Format: Couldn't create thread %s

**Explanation** PIM6 process failed to create a task thread.  
Parameters: Thread Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-RDLOCK\_ASSERT Format: %s:%d: Assert, read-lock not acquired

**Explanation** Caller Failed to get PIM6 Shared Memory read lock  
Parameters: Function Name, Line ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-RESERVE\_LIMIT Format: Exceeded reserve-limit for VRF %s - dropping

**Explanation** Exceeded the reserve-limit for VRF  
Parameters: VRF ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-RESTART\_REASON Format: PIM6 process has restarted, restart reason: %s\n

**Explanation** PIM6 is restoring the routes it had added in previous instance.  
Parameters: Restart Reason ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-RLIMIT Format: Couldn't set PIM6 data segment size to %lu

**Explanation** PIM6 process could not set a memory resource limit, exiting.  
Parameters: Segment Size ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-ROUTE\_LOOKUP Format: Couldn't find PIM6 route %s

**Explanation** PIM6 failed to find entry in the local route-table.  
Parameters: Address ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-SETSOCKOPT Format: setsockopt() on %s failed: %s

**Explanation** PIM6 failed in UDP socket operation. Auto-RP will not work.  
Parameters: Message String Error String ...

**Recommended Action** Dump core, and then restart component.

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**Error Message** PIM6-3-SETUP\_ROUTE Format: Couldn't setup PIM6 route %s in %s

**Explanation** PIM6 failed to install route in the local route-table.  
Parameters: Addresses, Function Name ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-SHARED\_DB\_PUB\_INIT Format: Could not do shared database publisher initialization for interfaces rc=0x%x [%s]

**Explanation** The system is unable to do shared db publisher initialization  
Parameters: Status Error, Syserror string ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-SHUTDOWN\_FM Format: FM could not shut down PIM6 process

**Explanation** FM could not shut down PIM6 process.

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-SLAB\_ALLOC Format: Slab alloc of type %s failed in %s

**Explanation** PIM6 process failed to allocate Slab memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** PIM6-3-SLAB\_CREATE Format: Slab alloc of type %s failed

**Explanation** PIM6 process failed to allocate Slab memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** PIM6-3-SM\_CREATE Format: Couldn't create shm segment %s

**Explanation** PIM6 process failed to initialize shared memory resource.  
Parameters: Shared Memory Segment Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-SMALLOC Format: Shared mem malloc (%lu) failed in %s

**Explanation** PIM6 process is out of free shared memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

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**Error Message** PIM6-3-SOCKET Format: socket() for %s failed: %s

**Explanation** PIM6 failed to obtain UDP socket. Auto-RP will not work.  
Parameters: Function Error String ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-STATE\_LIMIT Format: Exceeded state-limit for VRF %s - dropping

**Explanation** Exceeded the state-limit for VRF  
Parameters: VRF ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-SUBCR\_INIT Format: Could not initialize shared database client for interfaces rc=0x%x [%s]

**Explanation** The system is unable to do subscriBER init to access IM shared-dbs  
Parameters: Status Error, Syserror string ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-SYSMGR\_DISPATCH Format: Error returned from sysmgr\_dispatch(), errno: %s

**Explanation** PIM6 called the system manager API which returned an error.

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-THREAD\_SHUTDOWN Format: Couldn't shutdown thread %s

**Explanation** PIM6 failed to shut down a task thread.

**Recommended Action** No action is required.

**Error Message** PIM6-3-TIMER\_CREATE Format: Couldn't create %s timer

**Explanation** PIM6 failed to initialize timer resource.  
Parameters: Timer Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-TIMER\_SET\_INIT Format: Couldn't init %s active timer set

**Explanation** PIM6 failed to initialize timer resource.  
Parameters: Timer Name ...

**Recommended Action** Dump core, and then restart component.

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**Error Message** PIM6-3-TIMER\_START Format: Couldn't start %s timer

**Explanation** PIM6 failed to initialize timer resource.  
Parameters: Timer Name ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-U6RIB\_CONTEXT Format: Couldn't get U6RIB VRF %s

**Explanation** PIM6 failed to obtain unicast routing VRF from URIB.  
Parameters: Interface ...

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-UDP\_READ Format: Error reading UDP socket

**Explanation** UDP Socket Error.

**Recommended Action** Dump core, and then restart component.

**Error Message** PIM6-3-UDP\_SENDDTO Format: udp\_sendto() on %s failed: %s

**Explanation** PIM6 failed to send over UDP socket.  
Parameters: Message String Error String ...

**Recommended Action** No action is required.

**Error Message** PIM6-3-WRLOCK\_ASSERT Format: %s:%d: Assert, write-lock not acquired

**Explanation** Caller Failed to get PIM6 Shared Memory write lock  
Parameters: Function Name, Line ...

**Recommended Action** No action is required.

## PIM6-4

**Error Message** PIM6-4-HELLO\_INT Format: Configured PIM hello interval %d on interface %s is less than the supported minimum value of %d, updating the interval to minimum value\n

**Explanation** PIM minimum hello interval.  
Parameters: Hello interval, Interface, Min Hello interval ...

**Recommended Action** No action is required.

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## PIM6-5

**Error Message** PIM6-5-DR\_CHANGE Format: DR change from %s to %s on interface %s

**Explanation** PIM Designated router changed on the interface.  
Parameters: Old DR address, New DR address, Interface ...

**Recommended Action** No action is required.

**Error Message** PIM6-5-NBR\_CHANGE Format: Neighbor %s %s on interface %s

**Explanation** PIM neighbor went up/down due to Hello-message seen/lost.  
Parameters: Neighbor IPv6 address, Neighbor state, Interface ...

**Recommended Action** No action is required.

## PIM6-6

**Error Message** PIM6-6-IF\_DEPEND Format: Removed interface (%s) has %s dependency

**Explanation** There is residual configuration on the deleted interface.  
Parameters: Interface name, Dependent Config Command ...

**Recommended Action** No action is required.

**Error Message** PIM6-6-MAX\_GRANGES Format: Max Granges allowed to be configured for use shared tree config is %d

**Explanation** Exceeded the group range limit.

**Recommended Action** No action is required.

**Error Message** PIM6-6-MAX\_RPS Format: Cannot store bidir-RP %s, a maximum of %d are supported

**Explanation** Due to hardware limitations, there is a maximum number of Bidir-PIM6 RPs that can be stored.

**Recommended Action** No action is required.

**Error Message** PIM6-6-MQFLUSHED Format: Flushing %lu messages from %s mq

**Explanation** Flushing old residual messages from the message-queue.

**Recommended Action** No action is required.

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**Error Message** PIM6-6-MQLOOP\_UNKNOWN\_MSG Format: Received unknown message %d/%d

**Explanation** PIM6 process received unknown Interprocess message, dropped.

**Recommended Action** No action is required.

**Error Message** PIM6-6-NEGATIVE\_PREFIX Format: Group prefix %s/%d from RP %s has negative-bit set, ignore group entry

**Explanation** The RP is advertising a group range to be in dense-mode. This implementation only supports sparse-mode so the group entry will be ignored.  
Parameters: Type of malloc(size), Function Name ...

**Recommended Action** No action is required.

**Error Message** PIM6-6-PRESERVE\_ROUTES Format: Preserving routes from last instantiation

**Explanation** PIM6 is restoring the routes it had added in previous instance.

**Recommended Action** No action is required.

**Error Message** PIM6-6-RESERVE\_LIMIT\_WARNING Format: Exceeded 80% of the reserve-limit for VRF %s

**Explanation** Exceeded 80% of the reserve-limit for VRF  
Parameters: VRF ...

**Recommended Action** No action is required.

**Error Message** PIM6-6-RESTART\_SHUTDOWN Format: PIM6 shutting self down via restart command

**Explanation** PIM6 process is shutting itself down due to the restart command.

**Recommended Action** No action is required.

**Error Message** PIM6-6-SHUTDOWN Format: Shutting down PIM6 process

**Explanation** PIM6 received a shutdown request.

**Recommended Action** No action is required.

**Error Message** PIM6-6-SHUTDOWN\_SELF Format: PIM6 shutting self down

**Explanation** PIM6 process is shutting itself down.

**Recommended Action** No action is required.

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**Error Message** PIM6-6-STATE\_LIMIT\_WARNING Format: Exceeded 80% of the state-limit for VRF %s

**Explanation** Exceeded 80% of the state-limit for VRF  
Parameters: VRF ...

**Recommended Action** No action is required.

**Error Message** PIM6-6-UNKNOWN\_OPD Format: Received unknown mts opcode %d

**Explanation** PIM6 process received unknown Interprocess message, dropped.  
Parameters: MTS Opcode ...

**Recommended Action** No action is required.

## PM Messages

This section contains the PM messages.

### PM-2

**Error Message** PM-2-STARTUP\_FAILURE Format: Failed to %s during startup. error %d

**Explanation** A critical operation has failed during startup of the PM process.

**Recommended Action** No action is required.

### PM-3

**Error Message** PM-3-API\_FAILED Format: External API failed (%d)

**Explanation** External API failed.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** PM-3-API\_FAILED Format: External API failed (%s)

**Explanation** External API failed.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** PM-3-ARG\_ERR Format: Argument error (%s): %s

**Explanation** An argument to a PM call is invalid.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** PM-3-CLNT\_FAILURE Format: Failed to %s from client

**Explanation** A PM client operation has failed.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** PM-3-CPI\_ERR Format: %s

**Explanation** A failure occurred in the communication with the CPI.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** PM-3-DUP\_REG\_ERR Format: %s is already registered with PM

**Explanation** A PM client tried to register more than once with PM.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** PM-3-ERROR Format: Failed to %s

**Explanation** A critical operation has failed in the PM process.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** PM-3-ETH\_STUB\_ERR Format: %s

**Explanation** A failure occurred in the Ethernet stub module.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** PM-3-HA\_UPDATE Format: HA update failed (%d)

**Explanation** HA update failed.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** PM-3-IF\_INDEX Format: Invalid interface index received from %d

**Explanation** Invalid interface index received.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** PM-3-INTERNAL\_ERROR Format: %s

**Explanation** An internal error has occurred in the PM process.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** PM-3-IPC\_ERR Format: %s

**Explanation** A failure occurred while communicating with another process.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** PM-3-MQ\_SEND Format: Failed to send message %s (err: %s)

**Explanation** A message queue send operation failed.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** PM-3-MSG\_TO\_TLV Format: TLV Conversion failed (%d)

**Explanation** TLV conversion failed.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** PM-3-MTS\_DROP Format: %s:Error returned from mts\_drop(), errno: %s opcode %d

**Explanation** PM called an MTS API which returned an error.

**Recommended Action** No action is required.

**Error Message** PM-3-MTS\_DROP Format: Error returned from mts\_drop(), errno: %s

**Explanation** PM called an MTS API which returned an error.

**Recommended Action** No action is required.

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**Error Message** PM-3-MTS\_RECV Format: Error returned from mts\_recv(), errno: %s

**Explanation** PM called an MTS API which returned an error.

**Recommended Action** No action is required.

**Error Message** PM-3-MTS\_SEND Format: Failed to send message %s (err: %s)

**Explanation** PM called an MTS API which returned an error.

**Recommended Action** No action is required.

**Error Message** PM-3-NO\_MBUF Format: Failed to allocate mbuf %s

**Explanation** The PM process has run out of network buffers.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** PM-3-NO\_MEM Format: Failed to allocate private memory for %s

**Explanation** The PM process has run out of private memory.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** PM-3-PSS\_API\_INIT Format: Ksink pss API init failed (%d)

**Explanation** Ksink pss API init failed.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** PM-3-PSS\_REGISTER Format: PSS register failed (%d)

**Explanation** PSS register failed.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** PM-3-RP2RP\_ERR Format: %s

**Explanation** A failure occurred in the communication with the other RP.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** PM-3-THR\_CREATE Format: Failed to create %s thread. error %d

**Explanation** A failure occurred while creating a thread.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** PM-3-TLV\_TO\_STRUCT Format: TLV to Struct Conversion failed (%d)

**Explanation** TLV to Struct conversion failed.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** PM-3-UNK\_MSG Format: Unrecognized message in %s thread. major type %d, minor type %d

**Explanation** An unknown message was received from another process.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** PM-3-UNK\_MSG\_MAJOR Format: Unrecognized message from %s. Major type %d

**Explanation** An unknown message (major) was received from another process.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** PM-3-UNK\_MSG\_MINOR Format: Unrecognized message from %s. Minor type %d

**Explanation** An unknown message (minor) was received from another process.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

## PM-5

**Error Message** PM-5-NOTICE Format: %s

**Explanation** An unexpected event has occurred.

**Recommended Action** No action is required.

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## PM-6

**Error Message** PM-6-CLIENT\_GET Format: HA client filter recovery failed (%d)

**Explanation** HA client filter recovery failed.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** PM-6-IF\_INIT Format: Interface %s has been initialised

**Explanation** An interface has been initialized.

**Recommended Action** No action is required.

**Error Message** PM-6-IF\_MEMB\_GET Format: HA if-membership recovery failed (%d)

**Explanation** HA if-membership recovery failed.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** PM-6-MSG Format: %s

**Explanation** A generic message to the user.

**Recommended Action** No action is required.

**Error Message** PM-6-MTS\_UNKNOWN\_MSG Format: Received unknown MTS message with opcode %d, dropping it

**Explanation** PM received an unknown message. The message is dropped.

**Recommended Action** No action is required.

**Error Message** PM-6-VDC\_MEMB\_GET Format: HA vdc-membership recovery failed (%d)

**Explanation** HA vdc-membership recovery failed.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

## PMALLOC Messages

This section contains the PMALLOC messages.

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## PMALLOC-3

**Error Message** PMALLOC-3-BITMAP\_MEM\_CHECK Format: Failed to allocate bitmap for memory checking in %s\n

**Explanation** In PMALLOC lib, process failed to allocate bitmap for memory check ing.  
Parameters: Function name ...

**Recommended Action** No action is required.

**Error Message** PMALLOC-3-MALLOC\_ENABLE\_CHECKER Format: Malloc enable checker failed in %s\n

**Explanation** In PMALLOC lib, process failed to turn on memory accesses.  
Parameters: Function name ...

**Recommended Action** No action is required.

**Error Message** PMALLOC-3-MALLOC\_ENABLE\_CHECKER\_INFO Format: %d bytes already allocated\n

**Explanation** In PMALLOC lib, warn if some bytes have already been allocated.  
Parameters: Number of bytes ...

**Recommended Action** No action is required.

**Error Message** PMALLOC-3-MALLOC\_FAILURE Format: Malloc failure in %s\n

**Explanation** In PMALLOC lib, Malloc failed.  
Parameters: Function name ...

**Recommended Action** No action is required.

**Error Message** PMALLOC-3-NOT\_ALLOCATED\_SM\_MALLOC\_STR Format: %s failed in %s\n

**Explanation** In PMALLOC lib, invalid memory block/excess block request.  
Parameters: Function name,Function name ...

**Recommended Action** No action is required.

**Error Message** PMALLOC-3-SEGMENT\_NOT\_INIT Format: Segment 0x%p not initialized for memory checking\n

**Explanation** In PMALLOC lib, segment is not initialized for memory check ing.  
Parameters: Shared memory segment ...

**Recommended Action** No action is required.

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**Error Message** PMALLOC-3-SM\_INIT\_CHECKING Format: %s failed in %s\n

**Explanation** In PMALLOC lib, function failed to initialized.  
Parameters: Function name,Function name ...

**Recommended Action** No action is required.

## PMALLOC-6

**Error Message** PMALLOC-6-BLOCKED\_MEMSEG\_MUTEX Format: Blocked for memseg\_mutex\n

**Explanation** In PMALLOC lib, process is blocked for memseg\_mutex.

**Recommended Action** No action is required.

**Error Message** PMALLOC-6-LARGE\_MEM Format: Large mem: shared %d\n

**Explanation** In PMALLOC lib, large memory requested.  
Parameters: Shared memory segment ...

**Recommended Action** No action is required.

**Error Message** PMALLOC-6-MMAP\_SIZE Format: MMAP size is: %d\n

**Explanation** In PMALLOC lib, Memory map size.  
Parameters: Memory Map size ...

**Recommended Action** No action is required.

**Error Message** PMALLOC-6-SBRK\_FAILURE Format: sbrk failed in %s\n

**Explanation** In PMALLOC lib, return vlaue from MORECORE failed.  
Parameters: Function name ...

**Recommended Action** No action is required.

## PT Messages

This section contains the PT messages.

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## PT-4

**Error Message** PT-4-PT\_WARNING Format: %s

**Explanation** Patricia Tree API warning.

**Recommended Action** No action is required.

## PWE Messages

This section contains the PWE messages.

### PWE-2

**Error Message** PWE-2-ERROR Format: %s

**Explanation** As self-explained by the message itself.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** PWE-2-FAILURE Format: Failed to %s

**Explanation** As self-explained by the message itself.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** PWE-2-FAILURE\_LXC\_ADD Format: add create-lxc to ipc txlist for iod %d and %d\n

**Explanation** As self-explained by the message itself.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** PWE-2-FAILURE\_THREAD Format: Failed to create %.20s - %d

**Explanation** As self-explained by the message itself.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** PWE-2-FAILURE\_TOLERANT Format: Failed to %s

**Explanation** The system errors as self-explained by the message itself.

**Recommended Action** No action is required.

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**Error Message** PWE-2-NO\_MEM Format: No memory event detected

**Explanation** The router did not have enough memory to store certain data structures.

**Recommended Action** Add more memory to the router.

**Error Message** PWE-2-NO\_SH\_MEM Format: No shared memory available for %s

**Explanation** Pre-allocated shared memory is not enough for too-large configs.

**Recommended Action** add more shared memory to pwe.

**PWE-3**

**Error Message** PWE-3-CORRUPT\_DATA Format: corrupt data %s

**Explanation** self-explanatory.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** PWE-3-INIT Format: PWE initialization failed %s

**Explanation** pwe cannot be initialized.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** PWE-3-MTS\_BIND Format: Error returned from mts\_bind(), errno: %s

**Explanation** PWE called an MTS API which returned an error.

**Recommended Action** Dump core, and then restart component.

**Error Message** PWE-3-MTS\_DROP Format: Error returned from mts\_drop(), errno: %s

**Explanation** PWE called an MTS API which returned an error.

**Recommended Action** Dump core, and then restart component.

**Error Message** PWE-3-MTS\_RECV Format: Error returned from mts\_recv(), errno: %s

**Explanation** PWE called an MTS API which returned an error.

**Recommended Action** Dump core, and then restart component.

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**Error Message** PWE-3-MTS\_UNKNOWN\_MSG Format: Unknown error returned from MTS, errno: %d

**Explanation** PWE called an MTS API which returned an unknown error.

**Recommended Action** Dump core, and then restart component.

**Error Message** PWE-3-SYSMGR\_DISPATCH Format: Error returned from sysmgr\_dispatch(), errno: %s

**Explanation** PWE called the system manager API which returned an error.

**Recommended Action** Dump core, and then restart component.

## **PWE-6**

**Error Message** PWE-6-EXIT\_OUT Format: Exit with status 0x%x

**Explanation** pwe exits.

**Recommended Action** No action is required.

**Error Message** PWE-6-INFORMATION Format: %s

**Explanation** Informational messages as self-explained by the message itself.

**Recommended Action** No action is required.

**Error Message** PWE-6-IP\_ADDRESS\_NONE Format: empty IP address for iod %d

**Explanation** self-explained.

**Recommended Action** No action is required.

**Error Message** PWE-6-SYSMAN\_CLEANUP Format: Terminated by SYSMAN cleanup signal ;  
Explanation: pwe has been deconfigured or restarted or killed

**Explanation** The system has detected an error.

**Recommended Action** No action is required.

## **REGEX Messages**

This section contains the REGEX messages.

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## REGEX-3

**Error Message** REGEX-3-BACKSLASH Format: Trailing \ error in %s\n

**Explanation** In REGEX lib, trailing backslash error.  
Parameters: Function name ...

**Recommended Action** No action is required.

**Error Message** REGEX-3-CORRPTD\_OPCODE Format: Corrupted opcode in %s\n

**Explanation** In REGEX lib, corrupted opcode.  
Parameters: Function name ...

**Recommended Action** No action is required.

**Error Message** REGEX-3-CORRPTD\_PGM Format: Corrupted program in %s\n

**Explanation** In REGEX lib, corrupted program.  
Parameters: Function name ...

**Recommended Action** No action is required.

**Error Message** REGEX-3-CORRPTD\_POINTERS Format: Corrupted pointers in %s\n

**Explanation** In REGEX lib, corrupted pointers.  
Parameters: Function name ...

**Recommended Action** No action is required.

**Error Message** REGEX-3-DMG\_REGEX Format: Damaged regexp fed to regsub in %s\n

**Explanation** In REGEX lib, damaged regexp fed to regsub.  
Parameters: Function name ...

**Recommended Action** No action is required.

**Error Message** REGEX-3-EXP\_TOO\_BIG Format: Expression too big in %s\n

**Explanation** In REGEX lib, expression too big.  
Parameters: Function name ...

**Recommended Action** No action is required.

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**Error Message** REGEX-3-INTERNAL\_URP Format: Internal urp in %s\n

**Explanation** In REGEX lib, internal urp error.  
Parameters: Function name ...

**Recommended Action** No action is required.

**Error Message** REGEX-3-INTR\_FOULUP Format: Internal foulup in %s\n

**Explanation** In REGEX lib, internal foulup.  
Parameters: Function name ...

**Recommended Action** No action is required.

**Error Message** REGEX-3-INVALID\_BRCKT\_RANGE Format: Invalid [] range in %s\n

**Explanation** In REGEX lib, invalid [] range.  
Parameters: Function name ...

**Recommended Action** No action is required.

**Error Message** REGEX-3-INVALID\_LENGTH Format: Invalid character position in %s\n

**Explanation** In REGEX lib, invalid character position.  
Parameters: Function name ...

**Recommended Action** No action is required.

**Error Message** REGEX-3-JUNK Format: Junk characters at the end in %s\n

**Explanation** In REGEX lib, junk characters at the end.  
Parameters: Function name ...

**Recommended Action** No action is required.

**Error Message** REGEX-3-MEMORY\_CORRUPTION Format: Memory corruption in %s\n

**Explanation** In REGEX lib, memory corruption.  
Parameters: Function name ...

**Recommended Action** No action is required.

**Error Message** REGEX-3-MEMORY\_ERR Format: Not enough memory in %s\n

**Explanation** In REGEX lib, not enough memory.  
Parameters: Function name ...

**Recommended Action** No action is required.

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**Error Message** REGEX-3-NESTED\_SYMBOL Format: Nested \*?+ in %s\n

**Explanation** In REGEX lib, nested \*?+ symbols.  
Parameters: Function name ...

**Recommended Action** No action is required.

**Error Message** REGEX-3-NULL\_PARM\_REGSUB Format: NULL parameter to regsub in %s\n

**Explanation** In REGEX lib, NULL parameter to regsub.  
Parameters: Function name ...

**Recommended Action** No action is required.

**Error Message** REGEX-3-NULL\_PGM\_PARAM Format: Null program parameter %s\n

**Explanation** In REGEX lib, null program parameter.  
Parameters: Function name ...

**Recommended Action** No action is required.

**Error Message** REGEX-3-NULL\_STR\_PARAM Format: NULL string parameter in %s\n

**Explanation** In REGEX lib, null string parameter.  
Parameters: Function name ...

**Recommended Action** No action is required.

**Error Message** REGEX-3-OPND\_EMPTY Format: \*+ operand could be empty in %s\n

**Explanation** In REGEX lib, \*+ operand could be empty.  
Parameters: Function name ...

**Recommended Action** No action is required.

**Error Message** REGEX-3-PTTRN\_LONG Format: Pattern substitution too long in %s\n

**Explanation** In REGEX lib, pattern substitution too long.  
Parameters: Function name ...

**Recommended Action** No action is required.

**Error Message** REGEX-3-SYMBOL\_ERR Format: ?+\* follows nothing in %s\n

**Explanation** In REGEX lib, symbol error.  
Parameters: Function name ...

**Recommended Action** No action is required.

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**Error Message** REGEX-3-TOO\_MANY\_PRNTHSIS Format: Too many paranthesis in %s\n

**Explanation** In REGEX lib, too many parenthesis.  
Parameters: Function name ...

**Recommended Action** No action is required.

**Error Message** REGEX-3-UNMATCHED\_BRCKT Format: Unmatched [] in %s\n

**Explanation** In REGEX lib, unmatched [].  
Parameters: Function name ...

**Recommended Action** No action is required.

**Error Message** REGEX-3-UNMATCHED\_PRNTHSIS Format: Unmatched paranthesis in %s\n

**Explanation** In REGEX lib, unmatched parenthesis.  
Parameters: Function name ...

**Recommended Action** No action is required.

## RIP Messages

This section contains the RIP messages.

### RIP-2

**Error Message** RIP-2-STARTUP\_DEBUG Format: %s

**Explanation** A startup debug of rip process RIP process  
Parameters: Event ...

**Recommended Action** No action is required.

**Error Message** RIP-2-STARTUP\_FAILURE Format: Failed to %s during startup

**Explanation** A critical operation has failed during startup of the RIP process  
Parameters: Event ...

**Recommended Action** No action is required.

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## RIP-3

**Error Message** RIP-3-AUTH\_SEND\_FAILURE Format: %s %s

**Explanation** The RIP process failed to send a message to a neighbor  
Parameters: Failure Reason, Interface Name ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** RIP-3-FAILURE Format: Failed to %s

**Explanation** A critical operation has failed in the RIP process  
Parameters: Event ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** RIP-3-GENERIC Format: %s

**Explanation** An error occurred  
Parameters: Error ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** RIP-3-IM\_DEL Format: IOD in IM delete message for %s (%d) mismatches with RIP interface %p (iod %d)

**Explanation** There is a mismatch of interface IODs in IM and RIP  
Parameters: Interface Name, Interface ID, Interface Name, Interface ID ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** RIP-3-INTERNAL\_ERROR Format: %s

**Explanation** An internal error has occurred in the RIP process  
Parameters: Error ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** RIP-3-MQ\_RCVD Format: %s thread - message queue receive failure (%d)

**Explanation** An error occurred while trying to receive a message from another process  
Parameters: Thread Name, Failure Reason ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** RIP-3-MTS\_DROP Format: Error returned from mts\_drop(), errno: %s

**Explanation** RIP called an MTS API which returned an error.  
Parameters: Error Number ...

**Recommended Action** No action is required.

**Error Message** RIP-3-MTS\_RECV Format: Error returned from mts\_recv(), errno: %s

**Explanation** RIP called an MTS API which returned an error.  
Parameters: Error Number ...

**Recommended Action** No action is required.

**Error Message** RIP-3-POLICY\_ERROR Format: %s

**Explanation** An error has occurred when processing policies  
Parameters: Error ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** RIP-3-PROCESS\_STOP Format: Process shutting down: %s

**Explanation** RIP called a sysmgr API which returned an error.  
Parameters: Stop Reason ...

**Recommended Action** No action is required.

**Error Message** RIP-3-SEND\_FAILURE Format: Failed to send message. %s

**Explanation** The RIP process failed to send a message to a neighbor  
Parameters: Failure Reason ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** RIP-3-SYSMGR\_CLEANUP Format: Error returned from  
sysmgrcb\_conditional\_srv\_cleanup\_status(): %d

**Explanation** RIP called a sysmgr API which returned an error.  
Parameters: Status ...

**Recommended Action** No action is required.

**Error Message** RIP-3-UNK\_MSG\_MAJOR Format: %s thread - Unrecognized message major  
type %d

**Explanation** An unknown message was received from another process  
Parameters: Thread Name, Major Type ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco  
Support web site <http://www.cisco.com/tac>.

**Error Message** RIP-3-UNK\_MSG\_MINOR Format: %s thread - Unrecognized message minor  
type %d

**Explanation** An unknown message (mior) was received from another process  
Parameters: Thread Name, Minor Type ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco  
Support web site <http://www.cisco.com/tac>.

## RIP-4

**Error Message** RIP-4-IF\_DOWN\_OVERLOAD Format: Interface %s brought down due to  
overload condition for %s af

**Explanation** The interface has been brought down due to an overload condition  
Parameters: Interface Name, Address Family ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco  
Support web site <http://www.cisco.com/tac>.

**Error Message** RIP-4-NO\_MEM Format: Failed to allocate private memory

**Explanation** The RIP process has run out of private memory.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco  
Support web site <http://www.cisco.com/tac>.

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**Error Message** RIP-4-VALIDATE\_ENTRY Format: %s

**Explanation** A route entry in an incoming response packet is invalid  
Parameters: Error ...

**Recommended Action** No action is required.

**Error Message** RIP-4-VALIDATE\_SRC Format: %s %s

**Explanation** An incoming packet has failed validation  
Parameters: Failure Reason, Interface Name ...

**Recommended Action** No action is required.

## RIP-5

**Error Message** RIP-5-TOO\_BIG\_KEY\_SIZE Format: Authentication key %s is > 16 characters in keychain %s

**Explanation** Authentication key size is > 16 characters.  
Parameters: Authentication Key, Keychain Name ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** RIP-5-U6RIB\_API\_FAILURE Format: Failed to %s routes %s U6RIB

**Explanation** An API call to U6RIB has failed  
Parameters: Event, To/From ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** RIP-5-URIB\_API\_FAILURE Format: Failed to %s routes %s URIB

**Explanation** An API call to URIB has failed  
Parameters: Event, To/From ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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## RIP-6

**Error Message** RIP-6-MTS\_UNKNOWN\_MSG Format: Received unknown MTS message with opcode %d, dropping it

**Explanation** RIP received an unknown message. The message is dropped  
Parameters: Opcode ...

**Recommended Action** No action is required.

**Error Message** RIP-6-SYSMAN\_CLEANUP Format: Terminated by SYSMAN cleanup signal ;  
Explanation: System Manager sent a cleanup signal to RIP to exit the process

**Explanation** The system has detected an error.

**Recommended Action** No action is required.

**Error Message** RIP-6-UNK\_DEB\_FLAG Format: Ignore unrecognized debug flag %s\

**Explanation** An unknown command line debug option was entered  
Parameters: Debug Flag ...

**Recommended Action** No action is required.

## RPM Messages

This section contains the RPM messages.

## RPM-2

**Error Message** RPM-2-LIB\_MALLOC\_FAILED Format: malloc() failed for allocating %s in %s()

**Explanation** RPM API library is out of heap memory  
Parameters: Data, RPM Function ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** RPM-2-MALLOC\_FAILED Format: malloc() failed for allocating %s in %s()

**Explanation** RPM process is out of heap memory  
Parameters: Data, RPM Function ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

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**Error Message** RPM-2-PPF\_SES\_ABORT Format: PPF session abort failed in client %s with an error 0x%08x(%s)

**Explanation** RPM encountered an error during PPF abort operation.

Parameters: PPF-Client, Error code, Error message ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** RPM-2-PPF\_SES\_COMMIT Format: PPF session commit failed in client %s with an error 0x%08x(%s)

**Explanation** RPM encountered a serious error while committing the verified PBR policy changes to PBR clients

Parameters: PPF-Client, Error code, Error message ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** RPM-2-PPF\_SES\_RQST Format: PPF session request failed in client %s with an error 0x%08x(%s)

**Explanation** RPM encountered an error while requesting PBR statistics from PBR clients

Parameters: PPF-Client, Error code, Error message ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** RPM-2-PPF\_SES\_VERIFY Format: PPF session verify failed in client %s with an error 0x%08x(%s)

**Explanation** RPM encountered an error while pushing PBR policy changes during the verify stage to PBR clients

Parameters: PPF-Client, Error code, Error message ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** RPM-2-PSS\_SYNC\_BUFFER Format: Crossed pss sync buffer size limit of %d with payload size %d - in %s()

**Explanation** RPM tried to PSS synchronization message exceeding the maximum allowed size

Parameters: Pss sync buffer size, Message payload size, RPM Function ...

**Recommended Action** No action is required.

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**Error Message** RPM-2-PTHREAD Format: %s failed with error - %d in %s()

**Explanation** RPM\_UNEXPECTED\_EXPLANATION  
Parameters: Failed Function, Error Code, RPM Function ...

**Recommended Action** No action is required.

**Error Message** RPM-2-SMALLOC\_FAILED Format: malloc() failed for allocating %s in %s()

**Explanation** RPM process is out of shared memory. This could be due to temporary increase in the number of policies configured to a very high value  
Parameters: Data, RPM Function ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** RPM-2-SRV\_INIT\_API\_FAIL Format: %s failed during initialization in %s()

**Explanation** RPM called a server API during initialization which returned an error.  
Parameters: Init. Function, RPM Function ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**RPM-3**

**Error Message** RPM-3-API\_FAILED Format: %s - failed in %s()

**Explanation** RPM invoked an API which failed. This is an unexpected but manageable event.  
Parameters: Failed API, RPM Function ...

**Recommended Action** No action is required.

**Error Message** RPM-3-API\_FAILED\_NUM Format: %s - failed for %d in %s()

**Explanation** RPM invoked an API which failed. This is an unexpected but manageable event.  
Parameters: Failed API, Number, RPM Function ...

**Recommended Action** No action is required.

**Error Message** RPM-3-API\_FAILED\_STR Format: %s - failed for %s in %s()

**Explanation** RPM invoked an API which failed. This is an unexpected but manageable event.  
Parameters: Failed API, String1, RPM Function ...

**Recommended Action** No action is required.

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**Error Message** RPM-3-API\_FAILED\_STR\_NUM Format: %s - failed for %s %d in %s()

**Explanation** RPM invoked an API which failed. This is an unexpected but manageable event.  
Parameters: Failed API, String, Number, RPM Function ...

**Recommended Action** No action is required.

**Error Message** RPM-3-API\_FAILED\_STR\_STR Format: %s - failed for %s %s in %s()

**Explanation** RPM invoked an API which failed. This is an unexpected but manageable event.  
Parameters: Failed API, String1, String2, RPM Function ...

**Recommended Action** No action is required.

**Error Message** RPM-3-BUILD\_LIC\_REQ Format: %s failed with error - %s (0x%08x) - in %s()

**Explanation** API failed to build a license request to recheckout a license.  
Parameters: Failed API, Error, Error Code, RPM Function ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** RPM-3-INFRA\_SYSERR Format: %s failed with error - %s (0x%08x) - in %s()

**Explanation** RPM called an infra API which returned an error.  
Parameters: Failed Function, Error, Error Code, RPM Function ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** RPM-3-INT\_ERROR Format: %s in %s()

**Explanation** RPM encountered an error during internal processing  
Parameters: Error, RPM Function ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** RPM-3-ISSU\_PREUPG\_FAILED Format: ISSU Preupgrade failed

**Explanation** Please remove the incompatible RPM/PBR config and restart ISSU.

**Recommended Action** No action is required.

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**Error Message** RPM-3-LIB\_API\_FAILED Format: %s - failed in %s()

**Explanation** RPM invoked an API which failed. This is an unexpected but manageable event.  
Parameters: Failed API, RPM Function ...

**Recommended Action** No action is required.

**Error Message** RPM-3-LIB\_API\_FAILED\_NUM Format: %s - failed for %d in %s()

**Explanation** RPM invoked an API which failed. This is an unexpected but manageable event.  
Parameters: Failed API, Number, RPM Function ...

**Recommended Action** No action is required.

**Error Message** RPM-3-LIB\_API\_FAILED\_NUM\_NUM Format: %s - failed for %d %d in %s()

**Explanation** RPM invoked an API which failed. This is an unexpected but manageable event.  
Parameters: Failed API, Number1, Number2, RPM Function ...

**Recommended Action** No action is required.

**Error Message** RPM-3-LIB\_API\_FAILED\_STR Format: %s - failed for %s in %s()

**Explanation** RPM invoked an API which failed. This is an unexpected but manageable event.  
Parameters: Failed API, String1, RPM Function ...

**Recommended Action** No action is required.

**Error Message** RPM-3-LIB\_INT\_ERROR Format: %s in %s()

**Explanation** RPM API encountered an error during internal processing  
Parameters: Error, RPM Function ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** RPM-3-LIB\_KEYCHAIN Format: Unexpected keychain result :%s

**Explanation** Unexpected result during RPM keychain API processing  
Parameters: Keychain Result ...

**Recommended Action** No action is required.

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**Error Message** RPM-3-LIB\_MTS\_SEND Format: Error returned from mts\_send(), errno: %s in %s()

**Explanation** An MTS API returned an error while RPM was sending an MTS message.  
Parameters: Error, RPM Function ...

**Recommended Action** No action is required.

**Error Message** RPM-3-LIC\_CHECKIN\_FAILED Format: %s failed with error - %s (0x%08x) - in %s()

**Explanation** Licensing API failed to check in a license.  
Parameters: Failed API, Error, Error Code, RPM Function ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** RPM-3-LIC\_CHECKOUT\_FAILED Format: %s failed with error - %s (0x%08x) - in %s()

**Explanation** Licensing API failed to check out a license.  
Parameters: Failed API, Error, Error Code, RPM Function ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** RPM-3-LIC\_REG\_FAILED Format: %s failed with error - %s (0x%08x) - in %s()

**Explanation** Licensing API failed while registering for license change notifications.  
Parameters: Failed API, Error, Error Code, RPM Function ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** RPM-3-LOAD\_PARSE\_TREE Format: %s failed with error - %s (0x%08x) - in %s()

**Explanation** API failed to load parse tree for PBR commands.  
Parameters: Failed API, Error, Error Code, RPM Function ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** RPM-3-MTS\_DROP Format: Error returned from mts\_drop(), errno: %s (0x%08x) in %s()

**Explanation** An MTS API returned an error when RPM tried to drop a message  
Parameters: Error, Error Code, RPM Function ...

**Recommended Action** No action is required.

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**Error Message** RPM-3-MTS\_RECV Format: Error returned from tsp\_mts\_recv(), errno: %s (0x%08x) in %s()

**Explanation** An MTS API returned an error while RPM was receiving on an MTS queue  
Parameters: Error, Error Code, RPM Function ...

**Recommended Action** No action is required.

**Error Message** RPM-3-MTS\_SEND Format: Error returned from mts\_send(), errno: %s (0x%08x) in %s()

**Explanation** An MTS API returned an error while RPM was sending an MTS message  
Parameters: Error, Error Code, RPM Function ...

**Recommended Action** No action is required.

**Error Message** RPM-3-UNLOAD\_PARSE\_TREE Format: %s failed with error - %s (0x%08x) - in %s()

**Explanation** API failed to unload parse tree for PBR commands.  
Parameters: Failed API, Error, Error Code, RPM Function ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**RPM-6**

**Error Message** RPM-6-LIB\_MATCH\_IGNORED Format: The command %s in seq. %u of route-map %s is ignored in %s()

**Explanation** A route-map match command has been ignored.  
Parameters: Match Command, Seq No., Route-map, RPM Function ...

**Recommended Action** No action is required.

**Error Message** RPM-6-MTS\_UNKNOWN\_MSG Format: Received unknown MTS message with opcode %d, dropping it in %s()

**Explanation** RPM received an unknown message. The message is dropped  
Parameters: MTS Opcode, RPM Function ...

**Recommended Action** No action is required.

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**Error Message** RPM-6-RESTART\_SHUTDOWN Format: RPM shutting self down via restart command in %s()

**Explanation** RPM process is shutting itself down due to the restart command.  
Parameters: RPM Function ...

**Recommended Action** No action is required.

## SLAB\_LIB Messages

This section contains the SLAB\_LIB messages.

### SLAB\_LIB-2

**Error Message** SLAB\_LIB-2-SLAB\_ELEM\_ERR Format: Slab element Alloc PC: %p, Element index: %d

**Explanation** An error occurred in a call to the slab library.

**Recommended Action** No action is required.

### SLAB\_LIB-3

**Error Message** SLAB\_LIB-3-SLAB\_ERR Format: Slab error [%s] in %s

**Explanation** An error occurred in a call to the slab library.

**Recommended Action** No action is required.

## SMM Messages

This section contains the SMM messages.

### SMM-0

**Error Message** SMM-0-SM\_CREATE\_ORIG\_VAL Format: %s with the %u value failed. Retrying with the lower value %u size

**Explanation** SMM could not create requested size, trying for a create for a lower size succeeded.  
Parameters: Function name, Original requested size, Lower size being retried ...

**Recommended Action** No action is required.

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**Error Message** SMM-0-SM\_RECREATE\_LOW\_VAL Format: Reallocate with new value %u bytes (%u MB) failed, but we were able to allocate a segment with a lower value.

**Explanation** SMM could not recreate requested size, but create for a lower size succeeded.  
Parameters: SHM size bytes, SHM size MB ...

**Recommended Action** No action is required.

## SMM-2

**Error Message** SMM-2-SAME\_REGION Format: Same region allocated on recreate request, from addr %p with size %d

**Explanation** A client requested for a new region to be created, but got the same region back.  
Parameters: memory address, size ...

**Recommended Action** No action is required.

**Error Message** SMM-2-SM\_API\_FAILED Format: %s failed in %s() with error %s\ for SHM size %u bytes (%u MB). Trying to allocate shared memory with lower value now.

**Explanation** SMM could not recreate a shared-memory segment.  
Parameters: SMM API, Function name, Error, SHM size bytes, SHM size in MB ...

**Recommended Action** No action is required.

## SMM-3

**Error Message** SMM-3-API\_FAILED Format: %s failed in %s

**Explanation** Component API call failed in SMM.  
Parameters: API name, Function name ...

**Recommended Action** No action is required.

**Error Message** SMM-3-API\_MTS\_FAILED Format: %s failed in %s, errno: %s

**Explanation** SMM failed using the MTS API.  
Parameters: API name, function name, Error number ...

**Recommended Action** No action is required.

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**Error Message** SMM-3-API\_SM\_FAILED Format: Could not allocate shared-memory segment.  
%s failed in %s with error %s

**Explanation** SMM process could not allocate shared-memory.  
Parameters: SMM API, Function name, Error ...

**Recommended Action** No action is required.

**Error Message** SMM-3-BAD\_API\_PARAM Format: %s API failed because %s

**Explanation** Illegal arguments were provided for an SMM API  
Parameters: API name, reason ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** SMM-3-BAD\_SEG\_TYPE Format: SMM API %s failed for %s, %s shared memory  
segment expected

**Explanation** Incorrect SMM API called for the type (static/dynamic) shared memory segment  
Parameters: SMM API, Segment name, Segment type ...

**Recommended Action** No action is required.

**Error Message** SMM-3-FTRUNCATE\_FAILED Format: %s failed in %s with error %s

**Explanation** SMM could not truncate process memory segment.  
Parameters: SM API, Function name, Error ...

**Recommended Action** No action is required.

**Error Message** SMM-3-GET\_SHM\_INFO\_FAILED Format: Failed to get SHM info in function  
%s with error: %s

**Explanation** Failed to get SHM information.  
Parameters: Function name, Error ...

**Recommended Action** No action is required.

**Error Message** SMM-3-GETRLIMIT\_FAILED Format: Getrlimit failed in %s, reason %s

**Explanation** SMM API could not set memory resource limit for a client  
Parameters: Function name, Error string ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

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**Error Message** SMM-3-HA\_FAILED Format: SMM HA:%s

**Explanation** SMM process restart recovery has succeeded / failed.  
Parameters: Reason string ...

**Recommended Action** No action is required.

**Error Message** SMM-3-INVALID\_STEP\_SIZE Format: %s: Invalid step sizes specified for dynamic SHM, incr size: %u, decr\_size: %u

**Explanation** Illegal arguments were provided for an SMM API  
Parameters: Function name, Increment step size, Decrement step size ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** SMM-3-LSEEK\_FAILED Format: Failed to seek to offset %u for file %s

**Explanation** Lseek operation on a shared memory file failed  
Parameters: Address, Segment name ...

**Recommended Action** No action is required.

**Error Message** SMM-3-MALLOC\_FAILED Format: %s failed in %s

**Explanation** SMM process is out of free memory.  
Parameters: API name, Function name ...

**Recommended Action** No action is required.

**Error Message** SMM-3-MEMORY\_API\_ERROR Format: %s failed in %s with error %s

**Explanation** Memory API failed.  
Parameters: SM API, Function name, Error ...

**Recommended Action** No action is required.

**Error Message** SMM-3-MMAP\_FAILED Format: %s failed in %s with error %s for segment %s. Requested map from %p for size %d

**Explanation** MMAP failed.  
Parameters: SM API, Function name, Error ...

**Recommended Action** No action is required.

**Error Message** SMM-3-MQ\_FAILED Format: %s failed in %s, errno: %s

**Explanation** SMM failed to access message-queue resource.  
Parameters: API name, function name, Error number ...

**Recommended Action** No action is required.

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**Error Message** SMM-3-MTS\_DROP Format: Error returned from mts\_drop()

**Explanation** SMM called an MTS API which returned an error.

**Recommended Action** Dump core, and then restart component.

**Error Message** SMM-3-MTS\_FAILED Format: %s failed in %s, errno: %s

**Explanation** SMM failed using the MTS API.  
Parameters: API name, function name, Error number ...

**Recommended Action** No action is required.

**Error Message** SMM-3-MTS\_RECV Format: Error returned from mts\_recv()

**Explanation** SMM called an MTS API which returned an error.

**Recommended Action** Dump core, and then restart component.

**Error Message** SMM-3-NO\_REGION Format: No corresponding region found for segment %s

**Explanation** SMM library could not find the region data structure which corresponds to each shared memory segment  
Parameters: Segment name ...

**Recommended Action** No action is required.

**Error Message** SMM-3-PSS\_REPORT Format: SMM HA:%s

**Explanation** Persistent DB reports for SMM.  
Parameters: Reason string ...

**Recommended Action** No action is required.

**Error Message** SMM-3-PTHREAD\_FAILED Format: %s failed for %s in %s

**Explanation** SMM process failed to create a task thread.  
Parameters: API name, function name, Error number ...

**Recommended Action** Dump core, then reload the stack.

**Error Message** SMM-3-REFCOUNT\_ERR Format: %s: Refcount of shared memory segment %s is %d, expected refcount %d

**Explanation** There are more/less readers of the same shared memory segment than expected for the API to succeed.

**Recommended Action** No action is required.

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**Error Message** SMM-3-REGION\_FAILED Format: Failed to create SMM region %s

**Explanation** SMM API failed in %s to create a region %s for the shared memory this client is trying to open.

Parameters: Function name, Region name ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** SMM-3-SETRLIMIT\_FAILED Format: Address space size increment of %d failed in %s, reason %s

**Explanation** SMM API could not set memory resource limit for a client

Parameters: Number of bytes, Function name, Error string ...

**Recommended Action** No action is required.

**Error Message** SMM-3-SHM\_CLEANUP\_FAILED Format: Failed to cleanup SHM info for %s in %s with error: %s

**Explanation** Failed to cleanup shared memory for recreate API

Parameters: SHM name, Function Name, Error string ...

**Recommended Action** No action is required.

**Error Message** SMM-3-SM\_CREATE\_FAILED Format: Failed to create %s shared memory segment %s of size %d (max %d)

**Explanation** SMM failed to create a shared memory segment.

Parameters: SHM type, SHM name, SHM size, Max size for dynamic SHM ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** SMM-3-SM\_FAILED Format: Could not allocate shared-memory segment

**Explanation** SMM process could not allocate shared-memory.

**Recommended Action** No action is required.

**Error Message** SMM-3-SM\_GET\_NEW\_REGION\_FAILED Format: Failed to get shared memory region for %s of size %d

**Explanation** SMM failed to get a new region of the requested size

Parameters: SHM name, size ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

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**Error Message** SMM-3-SM\_INFO\_FOR\_SMM Format: Received request %s for SMM's segment, unexpected

**Explanation** SMM received a request to open its own shared memory segment  
Parameters: API name ...

**Recommended Action** No action is required.

**Error Message** SMM-3-SM\_OPEN\_FAILED Format: %s failed in %s with error %s

**Explanation** SMM could not open a shared-memory segment.  
Parameters: SM API, Function name, Error ...

**Recommended Action** No action is required.

**Error Message** SMM-3-SMM\_API\_FAILED Format: %s failed in %s

**Explanation** Component API call failed in SMM.  
Parameters: API name, Function name ...

**Recommended Action** No action is required.

**Error Message** SMM-3-SYSMGR\_DISPATCH Format: Error returned from sysmgr\_dispatch()

**Explanation** SMM called the system manager API which returned an error.

**Recommended Action** Dump core, and then restart component.

**Error Message** SMM-3-TIMER\_FAILED Format: active\_timer\_create() failed in %s for %s timer

**Explanation** SMM failed to initialize timer resource.  
Parameters: timer type (heap/wheel) ...

**Recommended Action** Dump core, and then restart component.

**Error Message** SMM-3-TIMER\_SET\_INIT Format: Couldn't init %s active timer set

**Explanation** SMM failed to initialize timer resource.  
Parameters: timer type (heap/wheel) ...

**Recommended Action** Dump core, and then restart component.

**Error Message** SMM-3-UNKNOWN\_SMM\_MTYPE Format: Unknown %s in mtype: %d/%d (major/minor) in %s

**Explanation** SMM process received unknown Interprocess message, dropped.  
Parameters: Major/Minor type, Major number, Minor number, Function name ...

**Recommended Action** No action is required.

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## SMM-5

**Error Message** SMM-5-UNKNOWN\_OPC Format: Unknown MTS opcode %d in %s

**Explanation** The system has detected an unexpected error.  
Parameters: MTS opcode, Function name ...

**Recommended Action** No action is required.

## SMM-6

**Error Message** SMM-6-SUP\_SWITCHOVER Format: Received %s SUP switchover message.

**Explanation** Events related to changing SUP state from standby to active.

**Recommended Action** No action is required.

**Error Message** SMM-6-SUP\_SWOVER\_DONE Format: %s

**Explanation** Events related to changing SUP state from standby to active.

**Recommended Action** No action is required.

## SYSLOG Messages

This section contains the SYSLOG messages.

### SYSLOG-0

**Error Message** SYSLOG-0-SL\_MSG\_EMERG Format: %s

**Explanation** Syslog API Emergency.

**Recommended Action** No action is required.

### SYSLOG-1

**Error Message** SYSLOG-1-SL\_MSG\_ALERT Format: %s

**Explanation** Syslog API Alert.

**Recommended Action** No action is required.

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## SYSLOG-2

**Error Message** SYSLOG-2-DT\_TEST Format: Test Syslog facility: %s

**Explanation** The system has detected an error.

**Recommended Action** No action is required.

**Error Message** SYSLOG-2-DT\_TEST\_LIB Format: Test Syslog library facility: %s

**Explanation** The system has detected an error.

**Recommended Action** No action is required.

**Error Message** SYSLOG-2-SL\_MSG\_CRIT Format: %s

**Explanation** Syslog API Critical.

**Recommended Action** No action is required.

## SYSLOG-3

**Error Message** SYSLOG-3-NOTSET Format: Trying to print uninitialized error message

**Explanation** An internal software error occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** SYSLOG-3-SL\_MSG\_ERR Format: %s

**Explanation** Syslog API Error.

**Recommended Action** No action is required.

**Error Message** SYSLOG-3-TOOLONG Format: Error message too long: %s

**Explanation** An internal software error occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** SYSLOG-3-UNKNOWN Format: Unknown facility/severity: %x

**Explanation** An internal software error occurred.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

## SYSLOG-4

**Error Message** SYSLOG-4-SL\_MSG\_WARNING Format: %s

**Explanation** Syslog API Warning.

**Recommended Action** No action is required.

## SYSLOG-5

**Error Message** SYSLOG-5-SL\_MSG\_NOTICE Format: %s

**Explanation** Syslog API Notice.

**Recommended Action** No action is required.

## SYSLOG-6

**Error Message** SYSLOG-6-SL\_MSG\_INFO Format: %s

**Explanation** Syslog API Info.

**Recommended Action** No action is required.

## SYSLOG-7

**Error Message** SYSLOG-7-SL\_MSG\_DEBUG Format: %s

**Explanation** Syslog API Debug.

**Recommended Action** No action is required.

## SYSWRAP\_LIB Messages

This section contains the SYSWRAP\_LIB messages.

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## SYSWRAP\_LIB-2

**Error Message** SYSWRAP\_LIB-2-SYSWRAP\_ERR Format: Error condition in stack: %s tid=%lu: %x bytes left on stack of %lx bytes

**Explanation** An error occurred in a call to the syswrap library.

**Recommended Action** No action is required.

## TCP Messages

This section contains the TCP messages.

### TCP-2

**Error Message** TCP-2-APICLOSE Format: %s: Unable to close %s API

**Explanation** Cannot close API.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** TCP-2-APIINIT Format: %s: Unable to initialize %s API

**Explanation** Cannot init API.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** TCP-2-ATTACH Format: %s: Unable to attach to %s

**Explanation** Cannot attach shared memory.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** TCP-2-COND\_DESTROY Format: %s: pthread\_cond\_destroy failed, error %s

**Explanation** No system resources.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

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**Error Message** TCP-2-COND\_INIT Format: %s: pthread\_cond\_init failed, error %s

**Explanation** No system resources.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** TCP-2-COND\_WAIT Format: %s: pthread\_cond\_wait failed, error %s

**Explanation** No system resources.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** TCP-2-DEREGISTER Format: %s: Unable to deregister to %s

**Explanation** Cannot deregister with component.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** TCP-2-ENQUEUE Format: %s: Unable to enqueue %s to %s

**Explanation** Cannot insert client structure in client list.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** TCP-2-LARGE\_PKT Format: %s: Packet size greater than 65535 bytes, len %d

**Explanation** Packet size greater than 65535 bytes.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** TCP-2-MGETHDR Format: %s: MGETHDR failed, error %s

**Explanation** No system resources.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** TCP-2-MISMATCH\_LEN Format: %s: Mismatch in mbuf len (%d) and IP len (%d)

**Explanation** Mismatch in mbuf len and IP len.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

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**Error Message** TCP-2-MPREPEND Format: %s: m\_prepend failed for connection, L: %s.%d, F: %s.%d, error %s

**Explanation** No system resources.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** TCP-2-MPULLUP Format: %s: m\_pullup failed for %s, error %s

**Explanation** No system resources.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** TCP-2-MTS\_BIND Format: %s: Unable to bind to %s mts queue: %s

**Explanation** TCP called an MTS API which returned an error.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** TCP-2-MUTEX\_DESTROY Format: %s: pthread\_mutex\_destroy failed, error %s

**Explanation** No system resources.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** TCP-2-MUTEX\_INIT Format: %s: pthread\_mutex\_init failed, error %s

**Explanation** No system resources.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** TCP-2-MUTEX\_LOCK Format: %s: pthread\_mutex\_lock failed, error %s

**Explanation** No system resources.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

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**Error Message** TCP-2-MUTEX\_TRYLOCK Format: %s: pthread\_mutex\_trylock failed, error %s

**Explanation** No system resources.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** TCP-2-MUTEX\_UNLOCK Format: %s: pthread\_mutex\_unlock failed, error %s

**Explanation** No system resources.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** TCP-2-PANIC Format: %s: PANIC: %s

**Explanation** Internal TCP error.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** TCP-2-PTHREAD Format: %s: procket\_pthread\_create failed for %s: error %d

**Explanation** No system resources.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** TCP-2-REGISTER Format: %s: %s failed

**Explanation** Cannot register with component.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** TCP-2-SETSCHED Format: %s: Could not set scheduling or priority

**Explanation** Could not set scheduling or priority.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** TCP-2-TSP\_INIT Format: %s: Could not initialize tsp locking library

**Explanation** Could not initialize locking library.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

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## TCP-3

**Error Message** TCP-3-ALLOC Format: Error returned from calloc(), errno: %s

**Explanation** TCP called a calloc API which returned an error.

**Recommended Action** No action is required.

**Error Message** TCP-3-BADSIG Format: %s: Should not have received signal %d

**Explanation** Unexpected signal.

**Recommended Action** No action is required.

**Error Message** TCP-3-CLIENT\_DELETE Format: %s: Could not delete client %s\ pid %d error %s

**Explanation** Cannot delete client from clients list.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** TCP-3-CLIENT\_NULL Format: %s: Client struct for pid %d not found

**Explanation** Cannot find client for pid.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** TCP-3-DOMAININIT Format: %s: domaininit: %s sw[%d] has no usrreqs

**Explanation** Bkoken domain structure.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** TCP-3-FORK\_ERROR Format: %s: Parent of the forked child did not create state for child %d:%d

**Explanation** Parent process did not create state necessary for child process registration.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** TCP-3-INVALIDPARAM Format: %s: Invalid %s

**Explanation** Invalid parameter.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

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**Error Message** TCP-3-IP\_PROT\_UNKNOWN Format: %s: Unknown protocol in IP message %d

**Explanation** IP sent a packet with unknown protocol ID.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** TCP-3-MBUF\_COPY Format: %s: Unable to do m\_copyback

**Explanation** No system resources.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** TCP-3-MSG\_MAJOR\_UNKNOWN Format: %s: Unknown message major %d, minor %s

**Explanation** Unknown major type.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** TCP-3-MSG\_MINOR\_UNKNOWN Format: %s: Unknown minor message type %d from %s

**Explanation** Unknown minor type.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** TCP-3-MTS\_RESPOND Format: Error returned from mts\_send\_response(), errno: %s

**Explanation** TCP called an MTS API which returned an error.

**Recommended Action** No action is required.

**Error Message** TCP-3-NOMBUF Format: %s: Unable to get mbuf

**Explanation** No system resources.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** TCP-3-NOMEM Format: %s: malloc failed for: %s

**Explanation** No system resources.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

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**Error Message** TCP-3-PROCTERM\_NOTIFY Format: %s: Termination notification request failed for pid %d

**Explanation** Request for process termination notification has failed. This could lead to TCP memory leak over period of time.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** TCP-3-SM\_CREATE Format: %s: Shared memory %s\ create failed, error %d

**Explanation** No system resources.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** TCP-3-SOCKET\_COLL Format: %s: Socket collision, old client: %s\, pid: %d, new client: %s\, pid: %d

**Explanation** Two clients selected on the same socket.

**Recommended Action** No action is required.

**Error Message** TCP-3-SOCKET\_COLL\_FOUND Format: %s: Socket collision found for client: %s\, pid %d

**Explanation** Two clients selected on the same socket.

**Recommended Action** No action is required.

**Error Message** TCP-3-SOCREATE Format: %s: socreate create failed for client %s\ pid %d error %s

**Explanation** Cannot create socket. See errno for details Reload software if no memory.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** TCP-3-TCP\_MD5\_ERROR Format: %s:%s

**Explanation** General MD5 error messages.

**Recommended Action** No action is required.

**Error Message** TCP-3-TCP\_MTS\_DROP Format: Error returned from mts\_drop(), errno: %s

**Explanation** TCP called an MTS API which returned an error.

**Recommended Action** No action is required.

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**Error Message** TCP-3-TCP\_MTS\_RECV Format: %s: mts\_recv() failed on %s queue: %s

**Explanation** TCP called an MTS API which returned an error.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** TCP-3-TCP\_STRUCT\_TO\_TLV Format: Structure to TLV failed, errno: %s

**Explanation** TLV conversion failed.

**Recommended Action** No action is required.

**Error Message** TCP-3-TCP\_TLV\_TO\_STRUCT Format: Structure to TLV failed, errno: %s

**Explanation** TLV conversion failed.

**Recommended Action** No action is required.

**Error Message** TCP-3-TIMER\_CANCEL Format: %s: Timer cancel failed for %s

**Explanation** No system resources.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** TCP-3-TIMER\_CREATE Format: %s: Timer create failed for %s

**Explanation** No system resources.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** TCP-3-TIMER\_INIT Format: %s: Timer init failed

**Explanation** No system resources.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** TCP-3-TIMER\_START Format: %s: Timer start failed for %s

**Explanation** No system resources.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

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## TCP-6

**Error Message** TCP-6-EXISTS Format: %s: Child Exists: %d, ppid %d

**Explanation** Child already registered.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** TCP-6-NOT\_FOUND Format: %s: Parent not found: %d, cpid %d

**Explanation** Parent process not found.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** TCP-6-TCP\_MD5\_AUTH\_FAILURE Format: %s:Dropping packets from src:%s.%d,dst:%s.%d

**Explanation** TCP received packet which fails authentication. The packet is dropped.

**Recommended Action** No action is required.

**Error Message** TCP-6-TCP\_MTS\_UNKNOWN\_MSG Format: Received unknown MTS message with opcde %d, dropping it

**Explanation** TCP received an unknown MTS message. The message is dropped.

**Recommended Action** No action is required.

## TSP Messages

This section contains the TSP messages.

### TSP-3

**Error Message** TSP-3-INIT\_PROC Format: %s%s

**Explanation** Failed to init process with TSP.  
Parameters: Reason, Error string ...

**Recommended Action** No action is required.

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**Error Message** TSP-3-INIT\_THREAD Format: %s%s

**Explanation** Failed to init thread with TSP.  
Parameters: Reason, Error string ...

**Recommended Action** No action is required.

**Error Message** TSP-3-INVALID\_LOCK\_INDEX Format: Lock index invalid

**Explanation** Lock index is invalid.

**Recommended Action** No action is required.

**Error Message** TSP-3-INVALID\_THREAD\_ID Format: Invalid thread id: %d

**Explanation** Invalid thread id.  
Parameters: Thread id ...

**Recommended Action** No action is required.

**Error Message** TSP-3-LOCK\_MODE\_CONFLICT Format: Lock mode conflict

**Explanation** Lock R/W mode conflict.

**Recommended Action** No action is required.

**Error Message** TSP-3-LOCK\_RELEASE\_ORDER Format: Lock release out of order

**Explanation** Releasing locks out of order.

**Recommended Action** No action is required.

**Error Message** TSP-3-LOCK\_STACK\_EMPTY Format: Lock stack empty

**Explanation** Lock stack is empty.

**Recommended Action** No action is required.

**Error Message** TSP-3-LOCK\_STACK\_FULL Format: Lock stack full

**Explanation** Lock stack is full.

**Recommended Action** No action is required.

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**Error Message** TSP-3-MUTEX\_LOCK\_FAIL Format: pthread\_mutex\_lock() failed: %s

**Explanation** Failed to lock mutex.  
Parameters: Error string ...

**Recommended Action** No action is required.

**Error Message** TSP-3-MUTEX\_UNLOCK\_FAIL Format: pthread\_mutex\_unlock() failed: %s

**Explanation** Failed to unlock mutex.  
Parameters: Error string ...

**Recommended Action** No action is required.

**Error Message** TSP-3-RWSEM\_CREATE\_FAIL Format: rwsem\_create(sap=%u, flags=%#x) err %#x - %s

**Explanation** Failed to create rwsem.  
Parameters: Lock SAP id, Flags, Error code, Error string ...

**Recommended Action** No action is required.

**Error Message** TSP-3-RWSEM\_HAVE\_LOCK\_FAIL Format: rwsem\_have\_lock(sap=%u, flags=%#x) err %#x - %s

**Explanation** Failed to query rwsem status.  
Parameters: Lock SAP id, Flags, Error code, Error string ...

**Recommended Action** No action is required.

**Error Message** TSP-3-RWSEM\_INIT\_FAIL Format: rwsem\_lib\_init(vdc=%u, uuid=%u, tid=%u) err %#x - %s

**Explanation** Failed to initialize rwsem.  
Parameters: VDC id, UUID, TID, Error code, Error string ...

**Recommended Action** No action is required.

**Error Message** TSP-3-RWSEM\_LOCK\_FAIL Format: rwsem\_lock\_no\_sig(%s SAP %u) failed: %s

**Explanation** Failed to lock rwsem.  
Parameters: R/W, Lock SAP id, Error string ...

**Recommended Action** No action is required.

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**Error Message** TSP-3-RWSEM\_UNLOCK\_FAIL Format: rwsem\_unlock(%s SAP %u) failed: %s

**Explanation** Failed to unlock rwsem.  
Parameters: R/W, Lock SAP id, Error string ...

**Recommended Action** No action is required.

**TSP-6**

**Error Message** TSP-6-SUTIME\_BACKWARDS Format: Getrusage s/utime went backwards %lu.%06lu -> %lu.%06lu

**Explanation** CPU usage counters went backwards  
Parameters: old s/utime, current s/utime ...

**Recommended Action** No action is required.

**TX Messages**

This section contains the TX messages.

**TX-3**

**Error Message** TX-3-TXLIST\_ERROR Format: %s

**Explanation** TXLIST API returned an error.

**Recommended Action** No action is required.

**Error Message** TX-3-TXLIST\_PERROR Format: %s

**Explanation** TXLIST API returned a perror.

**Recommended Action** No action is required.

**Error Message** TX-3-TXTHREAD\_ERROR Format: %s

**Explanation** TXTHREAD API returned an error.

**Recommended Action** No action is required.

**Error Message** TX-3-TXTHREAD\_PERROR Format: %s

**Explanation** TXTHREAD API returned a perror.

**Recommended Action** No action is required.

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## U6RIB Messages

This section contains the U6RIB messages.

### U6RIB-2

**Error Message** U6RIB-2-API\_INIT\_SEM Format: Failed to init the API semaphore: open: %s, create: %s

**Explanation** U6RIB could not create the semaphore that protects access to the shared memory between U6RIB and its clients.

Parameters: Error from open, Error from create ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** U6RIB-2-NOPMEM Format: Failed to allocate private memory for %s

**Explanation** U6RIB has run out of private memory. This condition can be caused by a temporary increase in the number of routes in the network, or a general network or router misconfiguration.

**Recommended Action** Configure the network or router to decrease the number of routes, or add additional memory to the router.

**Error Message** U6RIB-2-NOSMEM Format: Failed to allocate shared memory for %s

**Explanation** U6RIB has run out of shared memory to store routes. This can be caused by a temporary increase of the number of routes in the network, or a general network or router misconfiguration.

**Recommended Action** Configure the network or router to decrease the number of routes, or reconfigure the shared memory through the following vdc mode commands: limit-resource u4route-mem min <min> max <max> limit-resource u6route-mem min <min> max <max>.

**Error Message** U6RIB-2-RES\_MGR Format: Error returned from %s, errno: 0x%08x (%s) in %s()

**Explanation** The resource manager returned an error to U6RIB, while U6RIB was performing an action relating to its shared memory

Parameters: RM Function, Error Code, Error Description, Calling Function ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

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**Error Message** U6RIB-2-STARTUP\_FAILURE Format: Startup failure: %s

**Explanation** An unrecoverable software error has occurred during u6RIB startup.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** U6RIB-2-TIMER\_LIB Format: %s %s

**Explanation** The timer library returned an error, causing an unrecoverable problem for U6RIB.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** U6RIB-2-TOO\_MANY\_CLIENTS Format: %s client %s\

**Explanation** U6RIB cannot add this client because the U6RIB client limit has already been reached. Parameters: Resource, Client ...

**Recommended Action** Restart the component when the system is working.

**U6RIB-3**

**Error Message** U6RIB-3-ADD\_PATH Format: %s: could not add path %s/%u via %s, %s for client %s\.

**Explanation** A route add operation has failed for the given client. There may be a previous error message that further explains the problem.

Parameters: Function, Prefix, Mask-len, NextHop, Interface, Client ...

**Recommended Action** No action is required.

**Error Message** U6RIB-3-ADD\_TPATH Format: Client %s\ added %s/%u via tableid 0x%08x : %s

**Explanation** A route add operation has failed for the given client. This was because the tableid could not be found. This may be a transient error.

Parameters: Client, Prefix, Mask-len, Table-Id, Error ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** U6RIB-3-ADD\_TPATH\_ROUTE Format: Client \%s\ added %s/%u%%s

**Explanation** A route add operation has failed for the given client. This was because the route could not be found. This may be a transient error.

Parameters: Client, Prefix, Mask-len, Table-name ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** U6RIB-3-ASSERT\_ERROR Format: %s:%d: Assertion \%s\ failed.

**Explanation** An internal software error has occurred. An assertion held to be true failed.

Parameters: Filename, Line number, Expression ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** U6RIB-3-AVLADD\_ERROR Format: Could not add %s (0x%08x) to the %s avl

**Explanation** U6RIB was unable to add a piece of data to an AVL data structure.

Parameters: Data item, Memory address, Data structure ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** U6RIB-3-AVLINIT\_ERROR Format: Could not init %s avl for VRF %s

**Explanation** U6RIB was unable to correctly initialize an AVL data structure.

Parameters: AVL name, VRF-name ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** U6RIB-3-CMI\_MTSSSEND\_FAILURE Format: mts\_send failure for client %s:  
%s

**Explanation** U6RIB was unable to send MTS message to a particular client

Parameters: Client name, Error ...

**Recommended Action** Use the 'system switchover' command to switchover to the standby supervisor. If no standby is present, or the standby is not ready, use the 'reload' CLI command to reload the system. The state of the standby can be checked using the 'show system redundancy ha status' CLI command.

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**Error Message** U6RIB-3-CMI\_PAYLOAD\_CONV\_ERR Format: CMI payload conversion error failure from %s order to %s order

**Explanation** The cmi payload conversion did not occur successfully.  
Parameters: order, order ...

**Recommended Action** No action is required.

**Error Message** U6RIB-3-ECMP\_LDSCR Format: %s

**Explanation** Error related to ECMP load-share configuration which will affect load-sharing for software-switched packets. If parity between hardware and software switching is important, perform a switchover.

**Recommended Action** Requires operator to intervene.

**Error Message** U6RIB-3-GET\_INSTANCE\_ERROR Format: instance not found for client %s\ in VRF %s

**Explanation** U6RIB could not find its data structures for a client in the shown VRF. The shown VRF should be reconfigured in the client. i.e. in router sub-mode configuration, 'no vrf <vrf-name>' Parameters: Client, VRF ...

**Recommended Action** Requires operator to intervene.

**Error Message** U6RIB-3-HTADD\_ERROR Format: Could not add %s to the %s hash table

**Explanation** A severe hash table error was encountered. The system may run into more errors because of this problem.

**Recommended Action** Use the 'system switchover' command to switchover to the standby supervisor. If no standby is present, or the standby is not ready, use the 'reload' CLI command to reload the system. The state of the standby can be checked using the 'show system redundancy ha status' CLI command.

**Error Message** U6RIB-3-INCONSISTENT\_RNH Format: %s: %s/%d

**Explanation** The system has detected an error.  
Parameters: Owner, Prefix, Length ...

**Recommended Action** No action is required.

**Error Message** U6RIB-3-INCONSISTENT\_ROUTE Format: %s: %s/%d via %s

**Explanation** The system has detected an error.  
Parameters: Owner, Prefix, Length, Next-hop ...

**Recommended Action** No action is required.

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**Error Message** U6RIB-3-INCONSISTENT\_STRUCTURE Format: %s

**Explanation** Unexpected remaining state during RIB cleanup.

**Recommended Action** No action is required.

**Error Message** U6RIB-3-INCONSISTENT\_SUMMARY Format: %s: routes %d, rnh's %d

**Explanation** Unexpected remaining state for client during RIB cleanup, see following for state:  
'show routing ipv6 unicast internal event-history errors'

Parameters: Owner, Routes, RNHs ...

**Recommended Action** No action is required.

**Error Message** U6RIB-3-INSTANCE\_CREATE\_ERROR Format: Failed to create routing instance info for client %s\, VRF %s

**Explanation** U6RIB could not create its data structures for a client in the shown VRF. There may be further errors to indicate the failure in more detail. The shown VRF should be reconfigured in the client. i.e. in router sub-mode configuration, 'no vrf <vrf-name>'

Parameters: Client, VRF ...

**Recommended Action** Requires operator to intervene.

**Error Message** U6RIB-3-KSINK\_LIB\_ERROR Format: %s %s

**Explanation** A error was encountered during ksink operations. The system may run into more errors because of this problem.

**Recommended Action** No action is required.

**Error Message** U6RIB-3-MOD\_ERROR Format: Client %s\ requested modify route for %s/%d: %s

**Explanation** The named client sent a modify route request, which generated the shown error.

Parameters: Client, Prefix, Prefix-Length, Error ...

**Recommended Action** No action is required.

**Error Message** U6RIB-3-MORE\_INFO\_ERROR Format: Client %s\: %s

**Explanation** This error provides further information about the previous error. Action should be taken depending on the previous error logged.

Parameters: Client, Message ...

**Recommended Action** No action is required.

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**Error Message** U6RIB-3-MORE\_MTS\_INFO\_ERROR Format: source SAP is: %d dest SAP is: %d

**Explanation** This error provides further information about the previous MTS error. Action should be taken depending on the previous error logged.

**Recommended Action** No action is required.

**Error Message** U6RIB-3-MTS\_BIND Format: mts\_bind failed for %s: %s

**Explanation** U6RIB was unable to bind to an MTS queue SAP.  
Parameters: MTS queue name, Error ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** U6RIB-3-MTS\_DEREGISTER Format: mts\_deregister failed for u6rib: %s

**Explanation** U6RIB was unable to deregister client from U6RIB notifications, causing an unrecoverable error.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** U6RIB-3-MTS\_DROP Format: Error returned from mts\_drop(), errno: %s

**Explanation** An MTS API returned an error when U6RIB tried to drop a message.

**Recommended Action** No action is required.

**Error Message** U6RIB-3-MTS\_NO\_PAYLOAD\_ERROR Format: Received MTS message with no payload on %s queue with opcode %d, dropping it

**Explanation** U6RIB received an unknown message. The message is dropped.

**Recommended Action** No action is required.

**Error Message** U6RIB-3-MTS\_OPTIONS Format: MTS option set failed for opcode %s: %s (%d)

**Explanation** U6RIB was unable to set options for an MTS opcode  
Parameters: Requestor, Error String, Error ...

**Recommended Action** Use the 'system switchover' command to switchover to the standby supervisor. If no standby is present, or the standby is not ready, use the 'reload' CLI command to reload the system. The state of the standby can be checked using the 'show system redundancy ha status' CLI command.

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**Error Message** U6RIB-3-MTS\_RECV Format: Error returned from mts\_recv(%s), errno: %s

**Explanation** An MTS API returned an error while U6RIB was receiving on an MTS queue.  
Parameters: Queue name, Error ...

**Recommended Action** No action is required.

**Error Message** U6RIB-3-MTS\_REGISTER Format: mts\_register failed for u6rib: %s

**Explanation** U6RIB was unable to register client for U6RIB notifications, causing an unrecoverable error.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** U6RIB-3-NO\_L3VM\_INFO\_ERROR Format: no L3VM info for table id 0x%08x from client %s\ - unknown to L3VM

**Explanation** A client tried to add some information to U6RIB, and provided a Table-Id that is unknown in the system. The client should be restarted.  
Parameters: Table-Id Client name ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** U6RIB-3-NO\_L3VM\_LIMITS Format: Could not get routing table limits from L3VM

**Explanation** U6RIB could not pull the routing limits for the table. L3VM should be restarted.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** U6RIB-3-NOT\_INIT\_L3VM\_ERROR Format: L3VM info for table id 0x%08x from client %s\ not available - U6RIB not initialised with L3VM

**Explanation** A client tried to add some information to the U6RIB, before U6RIB has registered for table information. The client should be restarted.  
Parameters: Table-Id, Client name ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** U6RIB-3-OPEN\_CLIENT\_SHM\_ERROR Format: Failed to open client shared memory %s\ : %s

**Explanation** The calling process failed with the shown error while trying to open the named U6RIB shared memory region. The status of the memory is shown in 'show process memory shared'.  
Parameters: Name of shared memory region ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

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**Error Message** U6RIB-3-PSS Format: Error returned from %s, errno: 0x%08x (%s) in %s()

**Explanation** U6RIB called a PSS API which returned an error. The error reported should be examined for the cause.

Parameters: Failed API, Error Code, Error Description, u6RIB Function ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** U6RIB-3-PTADD\_ERROR Format: Could not add %s/%d to the %s pt, error code %d

**Explanation** A severe route table error was encountered. The system may run into more errors because of this problem.

**Recommended Action** Use the 'system switchover' command to switchover to the standby supervisor. If no standby is present, or the standby is not ready, use the 'reload' CLI command to reload the system. The state of the standby can be checked using the 'show system redundancy ha status' CLI command.

**Error Message** U6RIB-3-QADD\_ERROR Format: Could not add %s to the %s queue

**Explanation** A severe queue error was encountered. The system may run into more errors because of this problem.

**Recommended Action** Use the 'system switchover' command to switchover to the standby supervisor. If no standby is present, or the standby is not ready, use the 'reload' CLI command to reload the system. The state of the standby can be checked using the 'show system redundancy ha status' CLI command.

**Error Message** U6RIB-3-QDEL\_ERROR Format: Could not delete %s from the %s queue

**Explanation** A severe queue error was encountered. The system may run into more errors because of this problem.

**Recommended Action** Use the 'system switchover' command to switchover to the standby supervisor. If no standby is present, or the standby is not ready, use the 'reload' CLI command to reload the system. The state of the standby can be checked using the 'show system redundancy ha status' CLI command.

**Error Message** U6RIB-3-RANGE\_CHECK\_ERR Format: Range check of %s failed from %s (0x%08x)

**Explanation** The value provided is outside of the acceptable range.  
Parameters: Range, Provider of value, Value Provided ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** U6RIB-3-RNH\_LOOP\_ERROR Format: Number of prefixes forming rnh loop exceeds %d\n Flagging route %s/%d from client %s\ with nh %s, rnh %s/%d\n as causing rnh loop

**Explanation** U6RIB detected a loop between routes installed in the RIB. Check the message to see which client caused the loop, and take appropriate action.

Parameters: Max RNH Loop, Prefix, Prefix Length, Client, Next-hop, Prefix, Prefix Length ...

**Recommended Action** Requires operator to intervene.

**Error Message** U6RIB-3-ROTECOUNT\_UNDERFLOW Format: Routing table statistic current tried to underflow deleting %s/%d

**Explanation** The system tried to decrement the current number of routes in the table, but the statistic was already zero.

Parameters: Prefix, Mask Len ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** U6RIB-3-ROTELIMIT\_EXCEEDED Format: Number of routes (%llu) reached or exceeds configured limit (%lu); dropped (%llu)

**Explanation** The number of routes in the named routing table has reached the configured limit. No further routes will be added to the table

Parameters: Current number of routes, Configured limit, Dropped routes ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** U6RIB-3-ROTELIMIT\_NOT\_ENFORCED Format: Number of routes (%llu) already exceeds newly configured limit (%lu); dropped (%llu)

**Explanation** The number of routes in the named routing table is already more than the newly configured limit. No further routes will be added to the table, but the new limit has not been enforced.

Parameters: Current number of routes, Configured limit, Dropped routes ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** U6RIB-3-ROTELIMIT\_WARNING Format: Number of routes (%llu) exceeds warning limit (%lu)

**Explanation** The number of routes in the named routing table has reached the configured warning limit.

Parameters: Current number of routes, Warning limit ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** U6RIB-3-RPM\_LIB\_ERROR Format: %s %d

**Explanation** An RPM library function returned an error.  
Parameters: Function, RPM Error Code ...

**Recommended Action** No action is required.

**Error Message** U6RIB-3-SDWRAP\_LIB\_ERROR Format: %s %s

**Explanation** A SDWrap library function returned an error.  
Parameters: Function, SDWrap Error Code ...

**Recommended Action** No action is required.

**Error Message** U6RIB-3-SEND\_FROM\_ERROR Format: Send from U6RIB to client %s\ failed: %s

**Explanation** U6RIB was unable to send a message to the shown client.  
Parameters: Client, Error ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** U6RIB-3-SEND\_TO\_ERROR Format: Send to u6rib failed: %s

**Explanation** The calling process was unable to send a message to U6RIB.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** U6RIB-3-STRUCT\_ERROR Format: Structural error: %s, client %s\, table id 0x%08x.

**Explanation** A severe data structural error was encountered. The system may run into more errors because of this problem.  
Parameters: Problem, Client, Table id ...

**Recommended Action** Use the 'system switchover' command to switchover to the standby supervisor. If no standby is present, or the standby is not ready, use the 'reload' CLI command to reload the system. The state of the standby can be checked using the 'show system redundancy ha status' CLI command.

**Error Message** U6RIB-3-TABLE\_CREATE\_ERROR Format: Failed to create table info for VRF %s for client %s\

**Explanation** U6RIB could not create its table data structure for the VRF being created. There may be further errors that indicate the failure in more detail. The shown VRF should be reconfigured in the system. i.e. in global configuration, 'no vrf context <vrf-name>'  
Parameters: VRF, Client ...

**Recommended Action** Requires operator to intervene.

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**Error Message** U6RIB-3-TABLE\_STATE\_ERROR Format: Table state %s for VRF %s for client %s\  
\%s\

**Explanation** U6RIB received a request from a client for a given VRF, but the given VRF was in a state where that request is not permitted  
Parameters: State, VRF, Client ...

**Recommended Action** Requires operator to intervene.

**Error Message** U6RIB-3-UFDM\_MTSEND\_FAILURE Format: MTS send to UFDM failed with unexpected error %d

**Explanation** U6RIB was unable to send a route update to UFDM. This means there will be a route missing from the FIB.

**Recommended Action** Use the 'system switchover' command to switchover to the standby supervisor. If no standby is present, or the standby is not ready, use the 'reload' CLI command to reload the system. The state of the standby can be checked using the 'show system redundancy ha status' CLI command.

**Error Message** U6RIB-3-UNCONVERGED\_ROUTING\_CLIENT Format: Client %s\  
\ did not signal convergence

**Explanation** The named Client did not signal convergence as expected, within a default time frame.  
Parameters: Client ...

**Recommended Action** No action is required.

**Error Message** U6RIB-3-UNKNOWN\_ROUTING\_CLIENT Format: Client %s\  
\ trying to perform unexpected routing operation

**Explanation** The named Client is calling a routing API, but U6RIB does not expect this client to perform route operations.  
Parameters: Client ...

**Recommended Action** No action is required.

## **U6RIB-4**

**Error Message** U6RIB-4-COMM\_BUFF\_ERROR Format: Only created %d %s communication buffers of size %d

**Explanation** Fewer communication buffers were created than expected. This will have been caused by a low memory condition. Examine the logs for the low memory error.

**Recommended Action** Configure the network or router to decrease the number of routes, or reconfigure the shared memory through the following vdc mode commands: limit-resource u4route-mem min <min> max <max> limit-resource u6route-mem min <min> max <max>.



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**Error Message** U6RIB-5-DUP\_REGISTER Format: Client \%s\ register more than once with same pid

**Explanation** A client tried to register more than once with U6RIB. The re-registration was ignored.

**Recommended Action** No action is required.

**Error Message** U6RIB-5-GENERAL\_FAILURE Format: Failed to %s

**Explanation** The logged action failed.

**Recommended Action** Use the 'system switchover' command to switchover to the standby supervisor. If no standby is present, or the standby is not ready, use the 'reload' CLI command to reload the system. The state of the standby can be checked using the 'show system redundancy ha status' CLI command.

**Error Message** U6RIB-5-NOTIFY\_THREAD Format: Failed to notify %s thread - Reschedule

**Explanation** An unexpected but recoverable event has occurred.

**Recommended Action** No action is required.

**Error Message** U6RIB-5-NULL\_WORKITEM\_PIB Format: No client info found for work item type %d table %08lu

**Explanation** An unexpected but recoverable event has occurred.

**Recommended Action** No action is required.

**Error Message** U6RIB-5-PID\_CHANGED Format: Client \%s\ register with new pid

**Explanation** A client re-registered with a new pid. This is likely if the client restarts. U6RIB accepted the re-registration.

**Recommended Action** No action is required.

**Error Message** U6RIB-5-RES\_MGR\_CHANGE Format: Changed u6route-mem from (%d, %d) to (%d, %d)

**Explanation** The requested limit-resource command was adapted to fit the limits in this version. Parameters: Requested Min, Requested Max, New Min, New Max ...

**Recommended Action** No action is required.

**Error Message** U6RIB-5-UNK\_MSG\_MINOR Format: Unrecognised %s message minor type %d

**Explanation** U6RIB received an unknown message. The message is dropped.

**Recommended Action** No action is required.

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**Error Message** U6RIB-5-UNK\_MTS\_OPC Format: %s thread - Unrecognised MTS opcode %d

**Explanation** U6RIB received an unknown message. The message is dropped  
Parameters: Thread name, Op-code ...

**Recommended Action** No action is required.

**U6RIB-6**

**Error Message** U6RIB-6-GENERAL\_INFO Format: %s

**Explanation** Informational message only.

**Recommended Action** No action is required.

**Error Message** U6RIB-6-MTS\_SHORT\_MSG\_ERROR Format: Received short (%d < %d) MTS message on %s queue with opcode %d, dropping it

**Explanation** U6RIB received an unknown message. The message is dropped.

**Recommended Action** No action is required.

**Error Message** U6RIB-6-NH\_DELETED\_NIB\_INFO Format: Found hidden next-hop %s (%d) for client %s\ in deleted NIB

**Explanation** U6RIB found a hidden next-hop for the client While a client was deregistering for a table.

Parameters: Next-hop, Interface, Client ...

**Recommended Action** No action is required.

**Error Message** U6RIB-6-NO\_MTS\_PAYLOAD Format: Received MTS message with no payload in thread %s from sap %d, dropping it

**Explanation** U6RIB received an unknown message. The message is dropped.

**Recommended Action** No action is required.

**Error Message** U6RIB-6-ROUTE LIMIT\_OVERFLOWED Format: Routing table statistic %s\ overflowed 32 bits

**Explanation** The routing table statistic is returned in a MIB which only supports 32 bit values. The statistic just past the maximum value for 32 bits.

Parameters: Statistic name ...

**Recommended Action** No action is required.

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**Error Message** U6RIB-6-ROUDELIMIT\_RECOVERED Format: Number of routes (%llu) is below the configured limit (%lu)

**Explanation** The number of routes in the named routing table has fallen below the configured limit. The routing table has recovered  
Parameters: Current number of routes, Configured limit ...

**Recommended Action** No action is required.

**Error Message** U6RIB-6-ROUDELIMIT\_REINSTALL Format: Routing table was reinstalled

**Explanation** The routing table was automatically reloaded to allow the new routing limit or because the reinstall threshold was crossed.

**Recommended Action** No action is required.

**Error Message** U6RIB-6-TRACE\_OVERFLOW Format: Trace buffer %s overflowed

**Explanation** The given event trace overflowed. This is normal behavior.  
Parameters: Trace name ...

**Recommended Action** No action is required.

## URIB Messages

This section contains the URIB messages.

### URIB-2

**Error Message** URIB-2-API\_INIT\_SEM Format: Failed to init the client API semaphore: open: %s, create: %s

**Explanation** URIB could not create the semaphore that protects access to the shared memory between URIB and its clients.  
Parameters: Error from open, Error from create ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** URIB-2-BAD\_PT Format: Possible Patricia tree corruption in %s

**Explanation** An unrecoverable software error has occurred because of a bad route table.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

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**Error Message** URIB-2-NOPMEM Format: Failed to allocate private memory for %s

**Explanation** URIB has run out of private memory. This condition can be caused by a temporary increase in the number of routes in the network, or a general network or router misconfiguration.

**Recommended Action** Configure the network or router to decrease the number of routes, or add additional memory to the router.

**Error Message** URIB-2-NOSMEM Format: Failed to allocate shared memory for %s

**Explanation** URIB has run out of shared memory to store routes and related information. This condition can be caused by a temporary increase in the number of routes in the network, or a general network or router misconfiguration.

**Recommended Action** Configure the network or router to decrease the number of routes, or reconfigure the shared memory through the following vdc mode commands: `limit-resource u4route-mem min <min> max <max>` `limit-resource u6route-mem min <min> max <max>`.

**Error Message** URIB-2-RES\_MGR Format: Error returned from %s, errno: 0x%08x (%s) in %s()

**Explanation** The resource manager returned an error to URIB, while URIB was performing an action relating to its shared memory  
Parameters: RM Function, Error Code, Error Description, Calling Function ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** URIB-2-STARTUP\_FAILURE Format: Startup failure: %s

**Explanation** An unrecoverable software error has occurred during URIB startup.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** URIB-2-TIMER\_LIB Format: %s %s

**Explanation** The timer library returned an error, causing an unrecoverable problem for URIB.

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** URIB-2-TOO\_MANY\_CLIENTS Format: %s client %s\

**Explanation** URIB cannot add this client because the URIB client limit has already been reached.  
Parameters: Resource, Client ...

**Recommended Action** Restart the component when the system is working.

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## URIB-3

**Error Message** URIB-3-ADD\_ERROR Format: Client \%s\ could not add %s/%d to the %s

**Explanation** A error was encountered. The system may run into more errors because of this problem.  
Parameters: Client, Prefix, Length, Target ...

**Recommended Action** Use the 'system switchover' command to switchover to the standby supervisor. If no standby is present, or the standby is not ready, use the 'reload' CLI command to reload the system. The state of the standby can be checked using the 'show system redundancy ha status' CLI command.

**Error Message** URIB-3-ADD\_PATH\_ERROR Format: %s: could not add path for client \%s\.

**Explanation** A route add operation has failed for the given client. There may be a previous error message that further explains the problem.  
Parameters: Function, Client ...

**Recommended Action** No action is required.

**Error Message** URIB-3-ADD\_RPATH Format: Client \%s\ added %s/%u via not found rnh %s/%u%%s

**Explanation** A route add operation has failed for the given client. This may be a transient error.  
Parameters: Client, Prefix, Mask-len, Recursive Prefix, Recursive Mask-len, Table ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** URIB-3-ADD\_TPATH Format: Client \%s\ added %s/%u via tableid 0x%08x : %s

**Explanation** A route add operation has failed for the given client. This was because the tableid could not be found. This may be a transient error.  
Parameters: Client, Prefix, Mask-len, Table-Id, Error ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** URIB-3-ADD\_TPATH\_ROUTE Format: Client \%s\ added %s/%u%%s

**Explanation** A route add operation has failed for the given client. This was because the route could not be found. This may be a transient error.  
Parameters: Client, Prefix, Mask-len, Table-name ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** URIB-3-ASSERT\_ERROR Format: %s:%d: Assertion \"%s\" failed.

**Explanation** An internal software error has occurred. An assertion held to be true failed.  
Parameters: Filename, Line number, Expression ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** URIB-3-AVLADD\_ERROR Format: Could not add %s (0x%08x) to the %s avl

**Explanation** URIB was unable to add a piece of data to an AVL data structure.  
Parameters: Data item, Memory address, Data structure ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** URIB-3-AVLINIT\_ERROR Format: Could not init %s avl for VRF %s

**Explanation** URIB was unable to correctly initialize an AVL data structure.  
Parameters: AVL name, VRF-name ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** URIB-3-CMI\_MTSEND\_FAILURE Format: mts\_send failure for client %s: %s

**Explanation** URIB was unable to send MTS message to a particular client  
Parameters: Client name, Error ...

**Recommended Action** Use the 'system switchover' command to switchover to the standby supervisor. If no standby is present, or the standby is not ready, use the 'reload' CLI command to reload the system. The state of the standby can be checked using the 'show system redundancy ha status' CLI command.

**Error Message** URIB-3-CMI\_PAYLOAD\_CONV\_ERR Format: CMI payload conversion error failure from %s order to %s order

**Explanation** The cmi payload conversion did not occur successfully.  
Parameters: order, order ...

**Recommended Action** No action is required.

**Error Message** URIB-3-COPY\_ERROR Format: Could not copy %s for %s/%d

**Explanation** A error was encountered during route optimization. The system may run into more errors because of this problem.

**Recommended Action** No action is required.

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**Error Message** URIB-3-DEL\_ERROR Format: Could not delete %s/%d from %s

**Explanation** A error was encountered. The system may run into more errors because of this problem.

**Recommended Action** Use the 'system switchover' command to switchover to the standby supervisor. If no standby is present, or the standby is not ready, use the 'reload' CLI command to reload the system. The state of the standby can be checked using the 'show system redundancy ha status' CLI command.

**Error Message** URIB-3-DEL\_PATH\_ERROR Format: %s: could not del path for client %s\.

**Explanation** A route add operation has failed for the given client. There may be a previous error message that further explains the problem.  
Parameters: Function, Client ...

**Recommended Action** No action is required.

**Error Message** URIB-3-EPID\_MIS\_MATCH\_ERROR Format: %s\ epid (%u) does not match known epid (%u)

**Explanation** The id a client provided does not match the id that URIB currently has stored for the client. The client probably restarted ungracefully and URIB has the old id.  
Parameters: Client, Expected epid, Received epid ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** URIB-3-FILE\_OPEN\_ERROR Format: File open error: %s

**Explanation** This message is for internal debugging only.

**Recommended Action** No action is required.

**Error Message** URIB-3-FILE\_WRITE\_ERROR Format: File write error: %s

**Explanation** This message is for internal debugging only.

**Recommended Action** No action is required.

**Error Message** URIB-3-GENERAL\_CRIB\_ERROR Format: %s

**Explanation** CRIB not in use.

**Recommended Action** No action is required.

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**Error Message** URIB-3-GENERAL\_PTHREAD\_ERROR Format: Thread %d: %s

**Explanation** The POSIX pthread library returned an error to URIB.  
Parameters: Thread name, Thread operation ...

**Recommended Action** Use the 'system switchover' command to switchover to the standby supervisor. If no standby is present, or the standby is not ready, use the 'reload' CLI command to reload the system. The state of the standby can be checked using the 'show system redundancy ha status' CLI command.

**Error Message** URIB-3-GENERAL\_UI\_ERROR Format: %s

**Explanation** The shown error occurred while the user interface was processing a request. The request should be tried again.  
Parameters: Error ...

**Recommended Action** Requires operator to retry the request.

**Error Message** URIB-3-GET\_INSTANCE\_ERROR Format: instance not found for client %s\  
in VRF %s

**Explanation** URIB could not find its data structures for a client in the shown VRF. The shown VRF should be reconfigured in the client. i.e. in router sub-mode configuration, 'no vrf <vrf-name>' Parameters: Client, VRF ...

**Recommended Action** Requires operator to intervene.

**Error Message** URIB-3-HTADD\_ERROR Format: Could not add %s to the %s hash table

**Explanation** A severe hash table error was encountered. The system may run into more errors because of this problem.

**Recommended Action** Use the 'system switchover' command to switchover to the standby supervisor. If no standby is present, or the standby is not ready, use the 'reload' CLI command to reload the system. The state of the standby can be checked using the 'show system redundancy ha status' CLI command.

**Error Message** URIB-3-INCONSISTENT\_RNH Format: %s: %s/%d

**Explanation** Unexpected remaining recursive next-hop removed during RIB cleanup  
Parameters: Owner, Prefix, Length ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** URIB-3-INCONSISTENT\_ROUTE Format: %s: %s/%d via %s

**Explanation** Unexpected remaining route removed during RIB cleanup.  
Parameters: Owner, Prefix, Length, Next-hop ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** URIB-3-INCONSISTENT\_STRUCTURE Format: %s

**Explanation** Unexpected remaining state removed during RIB cleanup.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** URIB-3-INCONSISTENT\_SUMMARY Format: %s: routes %d, rnh's %d

**Explanation** Unexpected remaining state for client during RIB cleanup. Use the 'show routing ipv4 unicast internal event-history errors' command for more information.  
Parameters: Owner, Routes, RNHs ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** URIB-3-INSTANCE\_CREATE\_ERROR Format: Failed to create routing instance info for client %s, VRF %s

**Explanation** URIB could not create its data structures for a client in the shown VRF. There may be further errors to indicate the failure in more detail. The shown VRF should be reconfigured in the client. i.e. in router sub-mode configuration, 'no vrf <vrf-name>'  
Parameters: Client, VRF ...

**Recommended Action** Requires operator to intervene.

**Error Message** URIB-3-KSINK\_LIB\_ERROR Format: %s %s

**Explanation** A error was encountered during ksink operations. The system may run into more errors because of this problem.

**Recommended Action** No action is required.

**Error Message** URIB-3-LABELCOUNT\_UNDERFLOW Format: Label count tried to underflow for %s

**Explanation** The client tried to decrement the current number of labels, but the statistic was already zero.  
Parameters: Pib ...

**Recommended Action** No action is required.

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**Error Message** URIB-3-MOD\_ERROR Format: Client \%s\ could not modify %s/%d: %s

**Explanation** A error was encountered. The system may run into more errors because of this problem.  
Parameters: Client, Prefix, Length, Reason ...

**Recommended Action** Use the 'system switchover' command to switchover to the standby supervisor. If no standby is present, or the standby is not ready, use the 'reload' CLI command to reload the system. The state of the standby can be checked using the 'show system redundancy ha status' CLI command.

**Error Message** URIB-3-MORE\_INFO\_ERROR Format: Client \%s\ : %s

**Explanation** This error provides further information about the previous error. Action should be taken depending on the previous error logged.  
Parameters: Client, Message ...

**Recommended Action** No action is required.

**Error Message** URIB-3-MORE\_MTS\_INFO\_ERROR Format: source SAP is: %d dest SAP is: %d

**Explanation** This error provides further information about the previous MTS error. Action should be taken depending on the previous MTS error logged.

**Recommended Action** No action is required.

**Error Message** URIB-3-MTS\_BIND Format: mts\_bind failed for %s: %s

**Explanation** URIB was unable to bind to an MTS queue SAP, causing an unrecoverable error.  
Parameters: MTS queue name, Error ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** URIB-3-MTS\_DEREGISTER Format: mts\_deregister failed for urib: %s

**Explanation** URIB was unable to deregister client from URIB notifications, causing an unrecoverable error.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** URIB-3-MTS\_DROP Format: Error returned from mts\_drop(), error: %s

**Explanation** An MTS API returned an error when URIB tried to drop a message.

**Recommended Action** No action is required.

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**Error Message** URIB-3-MTS\_NO\_CLIENT\_SAP Format: %s: client \%s\ has not provided a SAP for ack

**Explanation** A client registered with URIB, but did not provide a SAP for URIB to send reply messages to. This caused an unrecoverable error.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** URIB-3-MTS\_NO\_PAYLOAD\_ERROR Format: Received MTS message with no payload on %s queue with opcode %d, dropping it. src SAP: %d dst SAP: %d

**Explanation** URIB received an unknown message. The message is dropped.

**Recommended Action** No action is required.

**Error Message** URIB-3-MTS\_OPTIONS Format: MTS option set failed for opcode %s: %s (%d)

**Explanation** URIB was unable to set options for an MTS opcode  
Parameters: Requestor, Error String, Error ...

**Recommended Action** Use the 'system switchover' command to switchover to the standby supervisor. If no standby is present, or the standby is not ready, use the 'reload' CLI command to reload the system. The state of the standby can be checked using the 'show system redundancy ha status' CLI command.

**Error Message** URIB-3-MTS\_RECV Format: Error returned from mts\_recv(%s), errno: %s

**Explanation** An MTS API returned an error while URIB was receiving on an MTS queue.  
Parameters: Queue name, Error ...

**Recommended Action** No action is required.

**Error Message** URIB-3-MTS\_REGISTER Format: mts\_register failed for urib: %s

**Explanation** URIB was unable to register client for URIB notifications, causing an unrecoverable error.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** URIB-3-MTS\_SHORT\_MSG\_ERROR Format: Received short (%d < %d) MTS message on %s queue with opcode %d, dropping it. src SAP: %d dst SAP: %d

**Explanation** URIB received an unknown message. The message is dropped.

**Recommended Action** No action is required.

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**Error Message** URIB-3-MTS\_SIZE\_ERROR Format: %s: incorrect %s message size from client %s: %d (should be %d)

**Explanation** The size of a URIB message is incorrect for the type of message. The message is dropped.

**Recommended Action** No action is required.

**Error Message** URIB-3-MTS\_UBIND Format: mts\_unbind failed for %s: %s

**Explanation** URIB was unable to unbind from an MTS queue SAP, causing an unrecoverable error. Parameters: MTS queue name, Error ...

**Recommended Action** Use the 'system switchover' command to switchover to the standby supervisor. If no standby is present, or the standby is not ready, use the 'reload' CLI command to reload the system. The state of the standby can be checked using the 'show system redundancy ha status' CLI command.

**Error Message** URIB-3-MTS\_UNK\_OPC Format: Received unknown MTS message on %s queue with opcode %d, dropping it. src SAP: %d dst SAP: %d

**Explanation** URIB received an unknown message. The message is dropped. Parameters: Queue name, Op-code, SAP number, SAP number ...

**Recommended Action** No action is required.

**Error Message** URIB-3-NH\_RESOLV\_ADD\_ERROR Format: Could not add %s/%d to the %s (%d) resolve buffer

**Explanation** A error was encountered. The system may run into more errors because of this problem.

**Recommended Action** Use the 'system switchover' command to switchover to the standby supervisor. If no standby is present, or the standby is not ready, use the 'reload' CLI command to reload the system. The state of the standby can be checked using the 'show system redundancy ha status' CLI command.

**Error Message** URIB-3-NO\_L3VM\_INFO\_ERROR Format: no L3VM info for table id 0x%08x from client %s\ - unknown to L3VM

**Explanation** A client tried to add some information to URIB and provided a Table-Id that is unknown in the system. The client should be restarted. Parameters: Table-Id Client name ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

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**Error Message** URIB-3-NO\_L3VM\_LIMITS Format: Could not get routing table limits from L3VM

**Explanation** URIB could not pull the routing limits for the table. L3VM should be restarted.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** URIB-3-NOT\_INIT\_L3VM\_ERROR Format: L3VM info for table id 0x%08x from client %s\ not available - URIB not initialised with L3VM

**Explanation** A client tried to add some information to the URIB, before URIB has registered for the table information. The client should be restarted.

Parameters: Table-Id, Client name ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** URIB-3-OPEN\_CLIENT\_SHM\_ERROR Format: Failed to open client shared memory %s\ : %s

**Explanation** The calling process failed with the shown error while trying to open the named URIB shared memory region. The status of the memory is shown in 'show process memory shared'.

Parameters: Name of shared memory region ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** URIB-3-PSS Format: Error returned from %s, errno: 0x%08x (%s) in %s()

**Explanation** URIB called a PSS API which returned an error. The error reported should be examined for the cause.

Parameters: Failed API, Error Code, Error Description, URIB Function ...

**Recommended Action** Use 'reload' command to reload the system. Be aware that this problem affects all VDCs on the system.

**Error Message** URIB-3-PTADD\_ERROR Format: Could not add %s/%d to the %s pt, error code %d

**Explanation** A severe route table error was encountered. The system may run into more errors because of this problem.

**Recommended Action** Use the 'system switchover' command to switchover to the standby supervisor. If no standby is present, or the standby is not ready, use the 'reload' CLI command to reload the system. The state of the standby can be checked using the 'show system redundancy ha status' CLI command.

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**Error Message** URIB-3-PTDEL\_ERROR Format: Could not delete %s/%d from the URIB pt, error code %d

**Explanation** A severe route table error was encountered. The system may run into more errors because of this problem.

**Recommended Action** Use the 'system switchover' command to switchover to the standby supervisor. If no standby is present, or the standby is not ready, use the 'reload' CLI command to reload the system. The state of the standby can be checked using the 'show system redundancy ha status' CLI command.

**Error Message** URIB-3-QADD\_ERROR Format: Could not add %s to the %s queue

**Explanation** A severe queue error was encountered. The system may run into more errors because of this problem.

**Recommended Action** Use the 'system switchover' command to switchover to the standby supervisor. If no standby is present, or the standby is not ready, use the 'reload' CLI command to reload the system. The state of the standby can be checked using the 'show system redundancy ha status' CLI command.

**Error Message** URIB-3-RANGE\_CHECK\_ERR Format: Range check of %s failed from %s (0x%08x)

**Explanation** The value provided is outside of the acceptable range.  
Parameters: Range, Provider of value, Value Provided ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** URIB-3-RNH\_LOOP\_ERROR Format: Number of prefixes forming rnh loop exceeds %d\n Flagging route %s/%d from client %s\ with rnh %s/%d\n as causing rnh loop

**Explanation** URIB detected a loop between routes installed in the RIB. The message shows which client caused the loop.

Parameters: Max RNH Loop, Prefix, Prefix Length, Client, Prefix, Prefix Length ...

**Recommended Action** Requires operator to intervene.

**Error Message** URIB-3-RNH\_REFCOUNT Format: Client %s\ deleting RNH %s/%u with refcount %u

**Explanation** A client tried to delete a Recursive Next-hop while that RNH was still in use.  
Parameters: Client, Prefix, Mask-len, Reference count ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** URIB-3-ROUTECOUNT\_UNDERFLOW Format: Routing table statistic current tried to underflow deleting %s/%d

**Explanation** The system tried to decrement the current number of routes in the table, but the statistic was already zero.

Parameters: Prefix, Mask Len ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** URIB-3-RPM\_LIB\_ERROR Format: %s %d

**Explanation** An RPM library function returned an error.

Parameters: Function, RPM Error Code ...

**Recommended Action** No action is required.

**Error Message** URIB-3-SDWRAP\_LIB\_ERROR Format: %s %s

**Explanation** A SDWrap library function returned an error.

Parameters: Function, SDWrap Error Code ...

**Recommended Action** No action is required.

**Error Message** URIB-3-SEND\_FROM\_ERROR Format: Send from URIB to client %s\ failed: %s

**Explanation** URIB was unable to send a message to the shown client.

Parameters: Client, Error ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** URIB-3-SEND\_NOTIF\_ERROR Format: Failed to send %s notification buffer to client %s\; retried %lu times

**Explanation** URIB was unable to send a notification to a client.

Parameters: Type of Notify, Client, Retries ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** URIB-3-SEND\_TO\_ERROR Format: Send to URIB failed: %s

**Explanation** The calling process was unable to send a message to URIB.

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.





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**Error Message** URIB-4-ROUDELIMIT\_WARNING Format: Number of routes (%llu) exceeds warning limit (%lu)

**Explanation** The number of routes in the named routing table has reached the configured warning limit.

Parameters: Current number of routes, Warning limit ...

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

**Error Message** URIB-4-RTDEL\_ERROR Format: Could not find prefix %s/%d, client \%s\sdeleterequest'

**Explanation** Route delete request was received for a non-existing route.

Parameters: Prefix, Prefix Length, Client ...

**Recommended Action** No action is required.

**Error Message** URIB-4-UFDM\_ACKNOT\_FOUND Format: Could not find UFDM buffer with ptr 0x%08x

**Explanation** Ack received for a UFDM buffer that URIB does not know about.

Parameters: Memory address of UFDM buffer ...

**Recommended Action** No action is required.

**Error Message** URIB-4-UNEXPECTED\_VALUE Format: Unexpected value for %s

**Explanation** An unexpected value was encountered for the logged event.

**Recommended Action** No action is required.

**Error Message** URIB-4-XL\_LICENSE\_MEMORY Format: XL License installed; use \show routing memory estimate\ and see VDC resource u4route-mem documentation.

**Explanation** An XL License was just installed in the system. The memory currently configured for URIB may not be big enough to hold all the routes the hardware can install. Check VDC resource u4route-mem, then switchover to apply.

**Recommended Action** No action is required.

**Error Message** URIB-4-ZERO\_NEXTHOP Format: Client \%s\ added 0.0.0.0 next hop and interface %s is not point-to-point

**Explanation** The client protocol added a 0.0.0.0 next-hop address on a nonpoint-to-point interface  
Parameters: Client, Interface ...

**Recommended Action** No action is required.

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## URIB-5

**Error Message** URIB-5-API\_INIT\_SEM\_CLEAR Format: Cleared the API semaphore from %d

**Explanation** The API semaphore was in an unexpected state, and was restored to a correct value.  
Parameters: Value of semaphore ...

**Recommended Action** No action is required.

**Error Message** URIB-5-BOGUS\_INTF Format: Client %s\ tried to add %s/%d via %s with invalid iod %d

**Explanation** A bad interface was received in a path add from the client.  
Parameters: Client, Prefix, Prefix Length, Next-hop, Iod ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** URIB-5-BOGUS\_MASK Format: Client %s\ tried to add %s/%d

**Explanation** A bogus mask was received from the client.  
Parameters: Client, Prefix, Prefix Length ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** URIB-5-BOGUS\_PREFIX Format: %s\ tried to add %s/%d

**Explanation** A bogus prefix was received from the client.  
Parameters: Client, Prefix, Prefix Length ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** URIB-5-BOGUS\_RNH Format: %s\ tried to add %s/%d with RNH %s/%d

**Explanation** A bogus update with unexpected RNH was received from the client.  
Parameters: Client, Prefix, Prefix Length, RNH, RNH Length ...

**Recommended Action** Use the 'restart' command to restart the feature and clear this problem.

**Error Message** URIB-5-GENERAL\_FAILURE Format: Failed to %s

**Explanation** The logged action failed, causing an unrecoverable error. ; Recommended action: Use the 'system switchover' command to switchover to the standby supervisor. If no standby is present, or the standby is not ready, use the 'reload' CLI command to reload the system. The state of the standby can be checked using the 'show system redundancy ha status' CLI command.

**Recommended Action** Contact the Cisco Technical Assistance Center (TAC) through the Cisco Support web site <http://www.cisco.com/tac>.

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**Error Message** URIB-5-PATH\_DELETE Format: Could not find %s for client \%s\, prefix %s/%d nexthop %s, %s

**Explanation** URIB could not find the path that a client tried to delete.  
Parameters: Structure, Client, Prefix, Prefix Length, Next-hop, Interface ...

**Recommended Action** No action is required.

**Error Message** URIB-5-RES\_MGR\_CHANGE Format: Changed u4route-mem from (%d, %d) to (%d, %d)

**Explanation** The requested limit-resource command was adapted to fit the limits in this version.  
Parameters: Requested Min, Requested Max, New Min, New Max ...

**Recommended Action** No action is required.

**Error Message** URIB-5-RPATH\_DELETE Format: Could not find %s for client \%s\, prefix %s/%d rnh %s/%u

**Explanation** URIB could not find the recursive path that a client tried to delete.  
Parameters: Structure, Client, Prefix, Prefix Length, Recursive Prefix, Recursive Mask-len ...

**Recommended Action** No action is required.

**URIB-6**

**Error Message** URIB-6-GENERAL\_INFO Format: %s

**Explanation** Informational message only.

**Recommended Action** No action is required.

**Error Message** URIB-6-NH\_DELETED\_NIB\_INFO Format: Found hidden rnh %s/%d for client \%s\ in deleted NIB

**Explanation** URIB found a hidden next-hop for a client while the client was deregistering for a table.  
Parameters: Prefix, Mask Length, Interface, Client ...

**Recommended Action** No action is required.

**Error Message** URIB-6-ROUDELIMIT\_OVERFLOWED Format: Routing table statistic \%s\ overflowed 32 bits

**Explanation** The routing table statistic is returned in a MIB which only supports 32 bit values. The statistic just past the maximum value for 32 bits.  
Parameters: Statistic name ...

**Recommended Action** No action is required.

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**Error Message** URIB-6-ROUDELIMIT\_RECOVERED Format: Number of routes (%llu) is below the configured limit (%lu)

**Explanation** The number of routes in the named routing table has fallen below the configured limit. The routing table has recovered  
Parameters: Current number of routes, Configured limit ...

**Recommended Action** No action is required.

**Error Message** URIB-6-ROUDELIMIT\_REINSTALL Format: Routing table was reinstalled

**Explanation** The routing table was automatically reloaded to allow the new routing limit or because the reinstall threshold was crossed.

**Recommended Action** No action is required.

**Error Message** URIB-6-TRACE\_OVERFLOW Format: Trace buffer %s overflowed

**Explanation** The given event trace overflowed. This is normal behavior.  
Parameters: Trace name ...

**Recommended Action** No action is required.

**Error Message** URIB-6-UFDM\_MGMT Format: Route %s/%d in VRF management not sent to ufdm

**Explanation** URIB tried to give a route in the management VRF to UFDM  
Parameters: Prefix, Prefix Length ...

**Recommended Action** No action is required.

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