

Cisco Nexus 9000 Series NX-OS System Routing Messages Reference, Release 10.3(1)F

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Messages and Recovery Procedures

This chapter lists the system messages by facility. Within each facility, the messages are listed by severity levels 0 to 7: 0 is the highest severity level, and 7 is the lowest severity level. Each message is followed by an explanation and a recommended action.

AM Messages

This section contains the AM messages.

AM-2

Error Message `AM-2-API_INITIALIZE: Failed to initialize [chars] API with rc=0x[hex], [chars]`

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message `AM-2-API_INIT: Failed to initialize [chars] API`

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message `AM-2-BAD_TIMER: [chars]`

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message AM-2-CLI_INIT: Failed to initialize CLI

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message AM-2-INIT_FAIL: Initialization failure

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message AM-2-MQ_OPEN: Failed to open message queue [chars]: [chars]

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message AM-2-MTS_BIND: Failed to do mts_bind for [chars]: [chars]

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message AM-2-MTS_OPC_SET: Failed to register with opcode [dec]: [chars]

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message AM-2-MTS_RECV: MTS queue receive failed on [chars] queue: [chars]

Explanation An unexpected fatal error has occurred.

Recommended Action Reload the stack

Error Message AM-2-MTS_SADDR_GET: Failed to get source of mts queue [chars]: [chars]

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message AM-2-NO_WORKBIT: Failed to register [chars] too many notify clients

Explanation An unexpected fatal error has occurred.

Recommended Action Report the issue to Customer Support

Error Message AM-2-REQD_COMP_DOWN: Required component "[chars]" has gone down.

Explanation An unexpected fatal error has occurred.

Recommended Action Reload the stack

Error Message AM-2-REQD_COMP_FAIL: Required component "[chars]" has failed to initialize.

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message AM-2-SDB_CREAT: Failed to create shared database

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message AM-2-SDB_DESTROY: Failed to destroy shared database

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message AM-2-SDB_OPEN: Failed to open shared database

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message AM-2-SET_SCHED: Failed to set policy or priority

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message AM-2-SHM_CREAT: Failed to create shared memory: [chars]

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message AM-2-SHM_LOCK_CREAT: Failed to create shared memory lock: [chars]

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message AM-2-SVR_REG: Failed to register as a client of [chars] for VRF [chars]

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message AM-2-SYSMGR_NAME: Failed to get name from sysmgr during [chars]

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message AM-2-SYSMGR_NOTIFY: Bad notification from sysmgr for [chars]

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message AM-2-SYSMGR_QUERY: Failed to query sysmgr for [chars]

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message AM-2-SYSMGR_UUID: Failed to get uuid from sysmgr during [chars]

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message AM-2-THREAD_FAIL: Failed to start [chars] thread

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message AM-2-THR_CREAT: Failed to create thread [chars]: error [dec]

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message AM-2-URIB_PIB: Unable to get pib for [chars] VRF from URIB

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

AM-3

Error Message AM-3-ADJ_LIMIT_REACHED: Adacency limit reached [dec] percent of capacity for [chars] address family: [chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Requires operator to intervene

Error Message AM-3-BAD_PARAMS: Called [chars] with address family [dec], iod [dec], l3address [chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message AM-3-CV_INIT: Couldn't init cond var [chars]

Explanation AM process failed to initialize conditional-variable resource.

Recommended Action Dump core, then restart component

Error Message AM-3-DEL_PROT_ADJ: Unable to delete protocol adjacency for [chars], uuid [dec]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message AM-3-IF_INDEX: Invalid interface index received from [dec]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message AM-3-IPV6_GLEAN_EXCESS_TRAFFIC: Excess traffic (% PRIu64 packets / % PRIu64 octets) were dropped in [chars] seconds for ungleaned prefix [chars]/128 on interface [chars] in vrf [chars]

Explanation Informational log about a system event.

Recommended Action Keep running, do nothing special

Error Message AM-3-IP_GLEAN_EXCESS_TRAFFIC: Excess traffic (% PRIu64 packets / % PRIu64 octets) were dropped in [chars] seconds for ungleaned prefix [chars]/32 on interface [chars] in vrf [chars]

Explanation Informational log about a system event.

Recommended Action Keep running, do nothing special

Error Message AM-3-MAC_REG_FAILED: Mac registration with L2FM failed for mac [chars], iod [chars], phy iod: [chars]

Explanation Mac registration with L2FM failed.

Recommended Action Keep running, do nothing special

Error Message AM-3-MAX_RETRIES: Notification retry limit exceeded for [chars]

Explanation Client is not replying to our notifications.

Recommended Action Report the issue to Customer Support

Error Message AM-3-MQ_RECV: Message queue receive failed on [chars] queue: [chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message AM-3-MQ_SEND: Failed to send [chars] to [chars] queue: [chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message AM-3-MSG_TO_TLV: Notification message to TLV failed

Explanation An unexpected but recoverable error has occurred.

Recommended Action No special action is required.

Error Message AM-3-MTS_DROP: MTS drop failed on [chars] queue: [chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message AM-3-MTS_SEND: Failed to send [chars] to [chars] queue: [chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message AM-3-MUTEX_INIT: Couldn't init mutex [chars]

Explanation AM process failed to initialize mutex system resource.

Recommended Action Dump core, then restart component

Error Message AM-3-NO_AF: [chars]: Unable to get address family block for index [dec]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message AM-3-NO_MEM_2: Malloc failed for [chars] [dec] [chars]

Explanation System may be low on memory.

Recommended Action Out of memory. Add more memory to the router

Error Message AM-3-NO_MEM: Malloc failed for [chars] [chars]

Explanation System may be low on memory.

Recommended Action Out of memory. Add more memory to the router

Error Message AM-3-NO_PIB: Unable to get pib for client pid [dec] while processing [chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message AM-3-NO_SMEM: Smalloc failed for [chars] [chars]

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

Recommended Action Out of memory. Add more memory to the router

Error Message AM-3-PROT_ADJ_COUNT: Proto adj count is already 0 for iod [dec]

Explanation Received invalid Adj Delete.

Recommended Action Keep running, do nothing special

Error Message AM-3-PTHREAD_FAILED: pthread_create() failed for UFDM txlist thread()

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message AM-3-PT_ADD: Pt_add failed for [chars] [chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message AM-3-QUEUE: [chars] failed for [chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message AM-3-READ_LOCK_HOLD: [chars]:[chars]():[dec]: Assert, read-lock not acquired

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message AM-3-RIB_RTE_BUF: Failed to send AM route changes to [chars],
Reason=nullRouteBuffer

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message AM-3-SHM_OPEN: Shared memory does not exist: [chars]

Explanation Informational log about a system event.

Recommended Action No special action is required.

Error Message AM-3-THR_MUTEX_LOCK: Failed to thread mutex lock

Explanation Failed function pthread_mutex_lock

Recommended Action Reload the stack

Error Message AM-3-THR_MUTEX_UNLOCK: Failed to thread mutex lock

Explanation Failed function pthread_mutex_unlock

Recommended Action Reload the stack

Error Message AM-3-TLV_TO_STRUCT: Notification TLV to struct failed

Explanation An unexpected but recoverable error has occurred.

Recommended Action No special action is required.

Error Message AM-3-TXLIST_CREATE: Couldn't create txlist for [chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

[AM-5](#)

Error Message AM-5-INVALID_NOTIFY: Received invalid notification message

Explanation An unexpected but recoverable error has occurred.

Recommended Action No special action is required.

Error Message AM-5-MQ_MAJOR: Received unknown major message type ([dec]) from [chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message AM-5-MQ_MINOR: Received unknown minor message type ([dec]) from [chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message AM-5-MQ_UNEXP: Received unexpected message ([dec]/[dec]) on [chars] queue

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message AM-5-MSG_UNK: Received unknown % type: [dec]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message AM-5-MTS_OPC_UNK: Received unknown MTS opcode [dec]

Explanation An unexpected but recoverable error has occurred.

Recommended Action No special action is required.

Error Message AM-5-REG_DELAY: AM register [chars] delay: [dec] seconds

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

[AM-6](#)

Error Message AM-6-FAILED_STATS: Failed to retrieve stats from FTM

Explanation Informational log about a system event.

Recommended Action No special action is required.

Error Message AM-6-SYSMAN_CLEANUP: Terminated by SYSMAN cleanup signal

Explanation Informational log about a system event.

Recommended Action No special action is required.

[AM-7](#)

Error Message AM-7-URIB_CNTXT: Failed to get Table_ID for [chars] on [chars] from [chars] ([dec])

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

ARP Messages

This section contains the ARP messages.

ARP-2

Error Message ARP-2-AM_PIB: Failed to acquire AM handle [chars]

Explanation An unrecoverable software error has occurred during arp initialization.

Recommended Action Reload the stack

Error Message ARP-2-AM_REG: Failed to register as a client of AM [chars]

Explanation An unrecoverable software error has occurred during arp initialization.

Recommended Action Reload the stack

Error Message ARP-2-API_INITIALIZE: Failed to initialize [chars] API with rc=0x[hex], [chars]

Explanation An unrecoverable software error has occurred during arp initialization.

Recommended Action Reload the stack

Error Message ARP-2-API_INIT: Failed to initialize [chars] API

Explanation An unrecoverable software error has occurred during arp initialization.

Recommended Action Reload the stack

Error Message ARP-2-CLI_INIT: Failed to initialize CLI

Explanation An unrecoverable software error has occurred during arp initialization.

Recommended Action Reload the stack

Error Message ARP-2-DUP_SRCIP: Source address of packet received from [chars] on [chars] is

duplicate of local, [chars]

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 misconfiguration.

Error Message ARP-2-DUP_SRC_IP: Source address of packet received from [chars] on [chars]([chars]) is duplicate of local, [chars]

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 misconfiguration.

Error Message ARP-2-INIT_FAIL: Initialization failure

Explanation An unrecoverable software error has occurred during arp initialization.

Recommended Action Reload the stack

Error Message ARP-2-MQ_OPEN: Failed to open message queue [chars]: [chars]

Explanation An unrecoverable software error has occurred during arp initialization.

Recommended Action Reload the stack

Error Message ARP-2-MQ_RECV: Message queue receive failed on [chars] queue: [chars]

Explanation An unexpected fatal error has occurred.

Recommended Action Reload the stack

Error Message ARP-2-MTS_BIND: Failed to do mts_bind for [chars]: [chars]

Explanation An unrecoverable software error has occurred during arp initialization.

Recommended Action Reload the stack

Error Message ARP-2-MTS_OPC_SET: Failed to register with opcode [dec]: [chars]

Explanation An unrecoverable software error has occurred during arp initialization.

Recommended Action Reload the stack

Error Message ARP-2-MTS_RECV_FAIL: [chars] as MTS queue receive failed: [chars]

Explanation An unexpected fatal error has occurred.

Recommended Action Reload the stack

Error Message ARP-2-MTS_RECV: MTS queue receive failed on [chars] queue: [chars]

Explanation An unexpected fatal error has occurred.

Recommended Action Reload the stack

Error Message ARP-2-SET_SCHED: Failed to set policy or priority

Explanation An unrecoverable software error has occurred during arp initialization.

Recommended Action Reload the stack

Error Message ARP-2-SHM_CREAT: Failed to create [chars] shared memory

Explanation An unrecoverable software error has occurred during arp initialization.

Recommended Action Reload the stack

Error Message ARP-2-SVR_REG: Failed to register as a client of [chars]

Explanation An unrecoverable software error has occurred during arp initialization.

Recommended Action Reload the stack

Error Message ARP-2-SYSMGR_NOTIFY: Bad notification from sysmgr for [chars]

Explanation An unrecoverable software error has occurred during arp initialization.

Recommended Action Reload the stack

Error Message ARP-2-SYSMGR_QUERY: Failed to query sysmgr for [chars]

Explanation An unrecoverable software error has occurred during arp initialization.

Recommended Action Reload the stack

Error Message ARP-2-SYSMGR_UUID: Failed to get uuid from sysmgr during [chars]

Explanation An unrecoverable software error has occurred during arp initialization.

Recommended Action Reload the stack

Error Message ARP-2-THREAD_FAIL: Failed to start [chars] thread

Explanation An unrecoverable software error has occurred during arp initialization.

Recommended Action Reload the stack

Error Message ARP-2-THR_CREAT: Failed to create thread [chars]: error [dec]

Explanation An unrecoverable software error has occurred during arp initialization.

Recommended Action Reload the stack

Error Message ARP-2-TIMERS_INIT: Failed to initialize timers

Explanation An unrecoverable software error has occurred during arp initialization.

Recommended Action Reload the stack

Error Message ARP-2-TIMER_SET: Failed to initialize new timer set

Explanation An unrecoverable software error has occurred during arp initialization.

Recommended Action Reload the stack

[ARP-3](#)

Error Message ARP-3-ADJ_ADD_CONTROL: Failed to add adjacency by control plane. Host ip address : [chars]

Explanation Due to this failure, Traffic forwarding to the host may be affected.

Recommended Action No special action is required.

Error Message ARP-3-ADJ_ADD_PEER_SYNC: Failed to add PS adjacency from L2RIB. Host ip address : [chars]

Explanation Due to this failure, Traffic forwarding to the host may be affected.

Recommended Action No special action is required.

Error Message ARP-3-ADJ_ADD: Failed to add adjacency for received packet from [chars] on [chars]

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

Recommended Action Keep running, do nothing special

Error Message ARP-3-ADJ_DEL_CONTROL: Failed to delete adjacency by contol plane. Host ip address : [chars]

Explanation Due to this failure, Traffic forwarding to the host continue to happen.

Recommended Action No special action is required.

Error Message ARP-3-ADJ_DEL_PEER_SYNC: Failed to delete PS adjacency from L2RIB. Host ip address : [chars]

Explanation Due to this failure, Traffic forwarding to the host continue to happen.

Recommended Action No special action is required.

Error Message ARP-3-ADJ_UPD: Failed to update adjacency for received packet from [chars] on [chars]

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

Recommended Action Keep running, do nothing special

Error Message ARP-3-API_MQ_INVALID: ARP API Error: Invalid ARP message queue in [chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action No special action is required.

Error Message ARP-3-API_MQ_SEND: ARP API Error: Failed to send [chars] to [chars] queue:
[chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action No special action is required.

Error Message ARP-3-API_MTS_INVALID: ARP API Error: Invalid ARP MTS queue in [chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action No special action is required.

Error Message ARP-3-API_MTS_SEND: ARP API Error: Failed to send [chars] to [chars] queue:
[chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action No special action is required.

Error Message ARP-3-COUNT_MISMATCH: Mismatch between calculated and received adjacencies:
Calculated:[dec] and Received:[dec]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-DAI_FETCH_ERR: DAI lookup failed, callback function returned 0x[hex]
([chars]) for [chars] [chars]

Explanation DAI lookup failed

Recommended Action Keep running, do nothing special

Error Message ARP-3-DUP_VADDR_SRCIP: Source address of packet received from [chars] on
[chars] is duplicate of local virtual ip, [chars]

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 misconfiguration.

Error Message ARP-3-DUP_VADDR_SRC_IP: Source address of packet received from [chars] on [chars]([chars]) is duplicate of local virtual ip, [chars]

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 misconfiguration.

Error Message ARP-3-DUP_VIRT_SRCIP: Source address of packet received from [chars] on [chars] is duplicate of local virtual ip, [chars]

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 misconfiguration.

Error Message ARP-3-DUP_VIRT_SRC_IP: Source address of packet received from [chars] on [chars]([chars]) is duplicate of local virtual ip, [chars]

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 misconfiguration.

Error Message ARP-3-GRAT_ETH: Sending gratuitous arp for [chars] on invalid interface [chars], not ethernet

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-GRAT_IOD: Sending gratuitous ARP for [chars] on an invalid interface [dec]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-GRAT_IP: Sending gratuitous ARP request for [chars] IP address [chars] on [chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-GRAT_NON_AM: Sending gratuitous arp for [chars] on invalid interface [chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-GRAT_P2P: Sending gratuitous arp for [chars] on invalid interface [chars], point-to-point

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-HDR_ERR: Failed to get ARP header, expected [dec], got [dec] bytes

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-HDR_L2LEN_ERR: Received packet with incorrect layer 2 address length ([dec] bytes), [chars] with S/D MAC: [chars] [chars] eff_ifc [chars]([dec]), log_ifc [chars]([dec]), phy_ifc [chars]([dec])

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-HDR_L3LEN_ERR: Received packet with incorrect layer 3 address length ([dec] bytes)

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-IF_INDEX: Invalid interface index received from [dec]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-IM_EXT: Couldn't set IM-extension for interface [chars]

Explanation ARP process failed to set IM extension.

Recommended Action No special action is required.

Error Message ARP-3-INVAL_HDR_HRD_TYPE: Found incorrect hardware type in ARP header: [dec],
source-mac : [chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-INVAL_HDR_PROT_TYPE: Found incorrect protocol type in ARP header: 0x[hex]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-INVAL_STATE: Unrecognized ARP entry state in timer callback: [dec]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-MAC_ERR: Failed to get MAC address on [chars] for [chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action No special action is required.

Error Message ARP-3-MBUF_ERR: Failed to get the remainder of packet, expected [dec], got
[dec] bytes

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-MTS_DROP: MTS drop failed on [chars] queue: [chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-NO_MBUF: Failed to allocate buffer for [chars]

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

Recommended Action Report the issue to Customer Support

Error Message ARP-3-NO_MEM: Malloc failed for [chars] [chars]

Explanation The system may be low on memory.

Recommended Action Out of memory. Add more memory to the router

Error Message ARP-3-NO_SMEM: Shared memory allocation failed for [chars] [chars]

Explanation ARP Shared memory might be used up

Recommended Action Out of memory. Add more memory to the router

Error Message ARP-3-PKT_ENCAP: Failed to encapsulate packet

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-PKT_OUT: Failed to send packet to PM

Explanation PM's message queue may be temporarily full.

Recommended Action Keep running, do nothing special

Error Message ARP-3-REQ_ADD: Failed to add adjacency while sending request for [chars] on [chars], request from pid: [dec]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-REQ_ETH: Sending ARP request for [chars] on invalid interface [chars], not ethernet, request from pid: [dec]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-REQ_IOD: Sending ARP request for [chars] on an invalid interface [dec], request from pid: [dec]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-REQ_IP: Dropping ARP request for [chars] IP address [chars] on [chars], request from pid: [dec]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-TIMER_RSTART: Failed to restart timer 0x[hex] for [chars] on [chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action No special action is required.

Error Message ARP-3-VRRPQ_ADD: Failed to add VRRP queue entry for [chars], [chars] on [chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-VRRPQ_IP: Trying to add invalid IP address [chars] on [chars] to vrrp

queue

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-VRRP_ETH: Adding vrrp arp for [chars]: invalid interface [chars], not ethernet

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-VRRP_IOD: Adding vrrp arp for [chars]: invalid interface [dec]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-VRRP_NON_AM: Sending vrrp arp for [chars] on invalid interface [chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-3-VRRP_P2P: Sending vrrp arp for [chars] on invalid interface [chars], point-to-point

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

ARP-4

Error Message ARP-4-DIR_BCAST: [chars] address of packet received from [chars] on [chars] matches directed broadcast address, [chars]

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 misconfiguration.

Error Message ARP-4-DUP_IP: ARP entry found with duplicate IP address [chars] on [chars]

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 misconfiguration.

Error Message ARP-4-INVAL_IP: Received packet with invalid [chars] IP address ([chars]) from [chars] on [chars]

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

Recommended Action Check all routers on the interface for misconfiguration.

Error Message ARP-4-INVAL_MAC: Received packet with invalid [chars] MAC address ([chars]) from [chars] on [chars]

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

Recommended Action Check all routers on the interface for misconfiguration.

Error Message ARP-4-OWN_SRCMAC: Received packet with a local source MAC address ([chars]) from [chars] on [chars]

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

Recommended Action Check all routers on the interface for misconfiguration.

[ARP-5](#)

Error Message ARP-5-MQ_MINOR: Received unknown minor message type ([dec]) from [chars]

Explanation An unexpected but recoverable error has occurred.

Recommended Action No special action is required.

Error Message ARP-5-MQ_UNEXP: Received unexpected message ([dec]/[dec]) on [chars] queue

Explanation An unexpected but recoverable error has occurred.

Recommended Action No special action is required.

Error Message ARP-5-MSG_UNK: Received unknown % type: [dec]

Explanation An unexpected but recoverable error has occurred.

Recommended Action No special action is required.

Error Message ARP-5-MTS_OPC_UNK: Received unknown MTS opcode [dec]

Explanation An unexpected but recoverable error has occurred.

Recommended Action No special action is required.

Error Message ARP-5-UNK_IP_NOTIF: Unrecognized IP address change notification type [dec]

Explanation An unexpected but recoverable error has occurred.

Recommended Action No special action is required.

Error Message ARP-5-UNK_MSG_MINOR: Unrecognized [chars] message minor type [dec]

Explanation An unexpected but recoverable error has occurred.

Recommended Action No special action is required.

Error Message ARP-5-UNK_SIG: Received unknown signal [dec]

Explanation An unexpected but recoverable error has occurred.

Recommended Action No special action is required.

ARP-6

Error Message ARP-6-REQ_NON_AM: Sending ARP request for [chars] on invalid interface [chars] request from pid: [dec]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-6-REQ_P2P: Sending ARP request for [chars] on invalid interface [chars], point-to-point, request from pid: [dec]

Explanation An unexpected but recoverable error has occurred.

Recommended Action Keep running, do nothing special

Error Message ARP-6-SYSMAN_CLEANUP: Terminated by SYSMAN cleanup signal

Explanation Informational log about a system event.

Recommended Action No special action is required.

ICMPV6 Messages

This section contains the ICMPV6 messages.

ICMPV6-2

Error Message ICMPV6-2-ADJ_FIND: Couldn't find an adjacency for [chars] in [chars]()

Explanation ICMPv6 could not find AM adjacency

Recommended Action No special action is required.

Error Message ICMPV6-2-ADJ_RAVL: [chars] in [chars]()

Explanation ICMPv6 called an AVL API that has failed

Recommended Action No special action is required.

Error Message ICMPV6-2-DB_RESTORE_OBJ: [chars] in [chars]()

Explanation ICMPv6 DB restoration from DME object store has failed

Recommended Action No special action is required.

Error Message ICMPV6-2-MALLOC_FAILED: malloc() failed for allocating [chars] in [chars]()

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 Keep running, do nothing special

ICMPV6-3

Error Message ICMPV6-3-ADJ_ADD: Failed to add adjacency for received packet from [chars] on [chars]

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

Recommended Action No special action is required.

Error Message ICMPV6-3-API_FAILED: [chars] failed in [chars]()

Explanation An unexpected but manageable event has occurred.);

Recommended Action No special action is required.

Error Message ICMPV6-3-API_INIT_FAILED: [chars] failed in [chars]() with rc=0x[hex], [chars]

Explanation An unexpected but manageable event has occurred.);

Recommended Action No special action is required.

Error Message ICMPV6-3-API_INTERFACE_FAILED: [chars] failed for [chars] in [chars]()

Explanation An unexpected but manageable event has occurred.);

Recommended Action No special action is required.

Error Message ICMPV6-3-BAD_INFO_RECEIVED: Invalid [chars] message type [dec] received in [chars]()

Explanation An unexpected but manageable event has occurred.);

Recommended Action No special action is required.

Error Message ICMPV6-3-BITFIELD_FAILED: [chars] failed in [chars]

Explanation ICMPV6 process could not execute the bitfield operation.

Recommended Action Dump core, then reload the stack

Error Message ICMPV6-3-COUNT_MISMATCH: Mismatch between calculated and received adjacencies:
Calculated:[dec] and Received:[dec]

Explanation UNEXPECTED_ERROR_EXPLANATION

Recommended Action Keep running, do nothing special

Error Message ICMPV6-3-CV_INIT: Couldn't init cond var [chars]

Explanation ICMPV6 process failed to initialize conditional-variable resource.

Recommended Action Dump core, then restart component

Error Message ICMPV6-3-FHRP_CTXT: Adding virtual ipv6 address for [chars]: non-ipv6 enabled
interface [chars] in context [dec]

Explanation UNEXPECTED_ERROR_EXPLANATION

Recommended Action No special action is required.

Error Message ICMPV6-3-GROUP_PREFIX_IGNORE: Too many Groups in Group Prefix [chars]. Specify
the prefix within /120

Explanation GPrefix yields too many Groups

Recommended Action No special action is required.

Error Message ICMPV6-3-GROUP_RANGE_IGNORE: Too many Groups in Group Range [chars] - [chars]

Explanation Group Range yields too many Groups

Recommended Action No special action is required.

Error Message ICMPV6-3-IF_INDEX: Invalid interface index received from [dec]

Explanation UNEXPECTED_ERROR_EXPLANATION

Recommended Action Keep running, do nothing special

Error Message ICMPV6-3-MBUF_OP_FAILED: [chars] for size [dec] failed in [chars]()

Explanation An unexpected but manageable event has occurred.);

Recommended Action No special action is required.

Error Message ICMPV6-3-MQ_FAILED_NAME: [chars] failed for client [chars], errno: [chars] in [chars]()

Explanation An unexpected but manageable event has occurred.);

Recommended Action No special action is required.

Error Message ICMPV6-3-MQ_FAILED_PID: [chars] failed to client pid: [dec], errno: [chars] in [chars]()

Explanation An unexpected but manageable event has occurred.);

Recommended Action No special action is required.

Error Message ICMPV6-3-MQ_FAILED: [chars] failed, errno: [chars] in [chars]()

Explanation An unexpected but manageable event has occurred.);

Recommended Action No special action is required.

Error Message ICMPV6-3-MSG_TO_TLV: TLV Conversion failed ([dec])

Explanation TLV conversion failed

Recommended Action Report the issue to Customer Support

Error Message ICMPV6-3-MTS_DROP: Error returned from mts_drop(), errno: [chars]

Explanation ICMPv6 called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message ICMPV6-3-MTS_FAILED_NAME: [chars] failed for client [chars], errno: [chars] in [chars]()

Explanation An unexpected but manageable event has occurred.);

Recommended Action No special action is required.

Error Message ICMPV6-3-MTS_FAILED_PID: [chars] failed to client pid: [dec], errno: [chars] in [chars]()

Explanation An unexpected but manageable event has occurred.);

Recommended Action No special action is required.

Error Message ICMPV6-3-MTS_FAILED: [chars] failed, errno: [chars] in [chars]()

Explanation An unexpected but manageable event has occurred.);

Recommended Action No special action is required.

Error Message ICMPV6-3-MTS_RECV: Error returned from mts_recv(), errno: [chars]

Explanation ICMPv6 called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message ICMPV6-3-MUTEX_INIT: Couldn't init mutex [chars]

Explanation ICMPV6 process failed to initialize mutex system resource.

Recommended Action Dump core, then restart component

Error Message ICMPV6-3-ND_LOG: [chars]

Explanation Neighbor Discovery process found erroneous configuration on the network

Recommended Action No special action is required.

Error Message ICMPV6-3-ND_RA_LOG: [chars]

Explanation Network configuration information obtained from Neighbor Discovery - Router Acknowledgement(RA) packet

Recommended Action No special action is required.

Error Message ICMPV6-3-PACKET_LENGTH_ERROR: ICMPv6 packet from [chars] is smaller than payload length of [dec] bytes:[chars]()

Explanation An unexpected but manageable event has occurred.);

Recommended Action No special action is required.

Error Message ICMPV6-3-PT_ADD: Couldn't add element to PT [chars]

Explanation ICMPv6 failed to update the local database entry.

Recommended Action No special action is required.

Error Message ICMPV6-3-PT_DEL: Couldn't delete element from PT [chars]

Explanation ICMPv6 failed to delete the local database entry.

Recommended Action No special action is required.

Error Message ICMPV6-3-RESERVE_LIMIT: Exceeded reserve-limit for interface [chars] - dropping

Explanation Exceeded 80 percent of the reserve-limit for interface

Recommended Action No special action is required.

Error Message ICMPV6-3-STATE_LIMIT: Exceeded state-limit for interface [chars] - dropping

Explanation Exceeded 80 percent of the state-limit for interface

Recommended Action No special action is required.

Error Message ICMPV6-3-SYSMGR_DISPATCH: Error returned from sysmgr_dispatch(), errno: [chars]

Explanation ICMPv6 called a System Manager API which returned an error.

Recommended Action Dump core, then restart component

Error Message ICMPV6-3-TLV_TO_STRUCT: TLV to Struct Conversion failed ([dec])

Explanation TLV to Struct conversion failed

Recommended Action Report the issue to Customer Support

Error Message ICMPV6-3-TXLIST_CREATE: Couldn't create txlist for [chars]

Explanation ICMPV6 failed to create txlist resource.

Recommended Action Dump core, then restart component

Error Message ICMPV6-3-VRF_CREATE: ICMPv6 VRF creation failed for vrf [chars]

Explanation ICMPv6 process could not create the VRF context.

Recommended Action Dump core, then reload the stack

ICMPV6-4

Error Message ICMPV6-4-M6RIB_SM_ADDR: M6RIB shared memory not valid for mtype:[dec], xid:[dec], count:[dec]

Explanation M6RIB shared memory being accesses is not valid

Recommended Action No special action is required.

Error Message ICMPV6-4-MTS_QUEUE_NOT_INITIALIZED: [chars] mts queue not intialized

Explanation ICMPV6_UNEXPECTED_EXPLANATION

Recommended Action No special action is required.

Error Message ICMPV6-4-RATE_LIMIT_WARNING: icmpv6 rate limit exceeded in [chars]

Explanation Num of ipc msgs sent to icmpv6 are rate limited

Recommended Action No special action is required.

ICMPV6-6

Error Message ICMPV6-6-RESERVE_LIMIT_WARNING: Exceeded 80 percent of the reserve-limit for interface [chars]

Explanation Exceeded 80 percent of the reserve-limit for interface

Recommended Action No special action is required.

Error Message ICMPV6-6-STATE_LIMIT_WARNING: Exceeded 80 percent of the state-limit for interface [chars]

Explanation Exceeded 80 percent of the state-limit for interface

Recommended Action No special action is required.

Error Message ICMPV6-6-UNKNOWN_OPC: Received unknown mts opcode [dec]

Explanation ICMPv6 process received unknown Interprocess message, dropped.

Recommended Action No special action is required.

ICMPV6-7

Error Message ICMPV6-7-IPV6_PACKET_SEND_FAILED: [chars] failed in [chars]()

Explanation An unexpected but manageable event has occurred.);

Recommended Action No special action is required.

IPV6 Messages

This section contains the IPV6 messages.

IPV6-2

Error Message IPV6-2-FASTBOOT_MALLOC_FAILED: [chars] failed while [chars]

Explanation IPv6 process is out of free memory.

Recommended Action No special action is required.

Error Message IPV6-2-FREAD_FAILED: fread failed [dec] [dec]

Explanation IPv6 fread failed

Recommended Action No special action is required.

Error Message IPV6-2-IPV6_MSG_DAD_FAILED: IPv6 DAD failed for [chars]

Explanation Duplicate address detected over network

Recommended Action No special action is required.

Error Message IPV6-2-IPV6_MSG_MVSH: [chars]

Explanation Shutting down interface using mvsh

Recommended Action No special action is required.

Error Message IPV6-2-IPV6_REDIR: IPv6 Redirect triggered on interface [chars] Source: [chars]
Destination: [chars]

Explanation IPv6 Redirect done on an interface

Recommended Action No special action is required.

Error Message IPV6-2-LPSS_CREATE: lpss create for [chars] failed with 0x[hex] (errno: [dec])

Explanation Component API call failed in IPv6.

Recommended Action No special action is required.

Error Message IPV6-2-LPSS_OPEN: lpss open for [chars] failed with 0x[hex] (errno: [dec])

Explanation Component API call failed in IPv6.

Recommended Action No special action is required.

Error Message IPV6-2-RECURSIVE_LOOP: Recursive loop in [chars]

Explanation There is a recursive function calling loop.

Recommended Action Report the issue to Customer Support

Error Message IPV6-2-SDB_CREAT: Failed to create shared database

Explanation Component API call failed in IPv6.

Recommended Action No special action is required.

Error Message IPV6-2-SDB_DESTROY: Failed to destroy shared database, errno: [dec]

Explanation Component API call failed in IPv6.

Recommended Action No special action is required.

Error Message IPV6-2-SDB_OPEN: Failed to open shared database, err: [chars]

Explanation Component API call failed in IPv6.

Recommended Action No special action is required.

Error Message IPV6-2-VPC_CONFIG: [chars]

Explanation Required config for peer router is not present.

Recommended Action No special action is required.

IPV6-3

Error Message IPV6-3-BAD_CONTEXT: Bad context-id [dec] in [chars]

Explanation The context cannot be found

Recommended Action No special action is required.

Error Message IPV6-3-FRAME_LENGTH_LONG: Frame length: [dec] greater than maximum IPv6 payload size for packet received on interface [chars]

Explanation The packet has too big frame length, dropped.

Recommended Action No special action is required.

Error Message IPV6-3-GET_PIB_FAILED: [chars] failed in [chars]

Explanation IPv6 could not find client's PIB handle.

Recommended Action No special action is required.

Error Message IPV6-3-INVALID_VERSION: Invalid IPv6 version: [dec] for packet received on interface [chars]

Explanation The packet has invalid protocol version field, dropped.

Recommended Action No special action is required.

Error Message IPV6-3-IPV6_API_FAILED_IOD: [chars] failed in [chars], iod = [dec]

Explanation Component API call failed in IPv6.

Recommended Action No special action is required.

Error Message IPV6-3-IPV6_API_FAILED: [chars] failed in [chars]

Explanation Component API call failed in IPv6.

Recommended Action No special action is required.

Error Message IPV6-3-IPV6_CV_INIT: Couldn't init cond var [chars]

Explanation IPv6 process failed to initialize conditional-variable resource.

Recommended Action Dump core, then restart component

Error Message IPV6-3-IPV6_MSG_TO_TLV: TLV Conversion failed ([dec])

Explanation TLV conversion failed

Recommended Action Report the issue to Customer Support

Error Message IPV6-3-IPV6_MTS_RECV: Error returned from mts_recv(), errno: [chars]

Explanation IPv6 called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message IPV6-3-IPV6_MTS_UNKNOWN_MSG: Received unknown MTS message with opcode [dec], dropping it

Explanation IPv6 recieved an unknown message. The message is dropped

Recommended Action No special action is required.

Error Message IPV6-3-IPV6_MV_INIT: Couldn't init mutex [chars]

Explanation IPv6 process failed to initialize mutex system resource.

Recommended Action Dump core, then restart component

Error Message IPV6-3-IPV6_TLV_TO_STRUCT: TLV to Struct Conversion failed ([dec])

Explanation TLV to Struct conversion failed

Recommended Action Report the issue to Customer Support

Error Message IPV6-3-IPV6_TXLIST_CREATE: Couldn't create txlist for [chars]

Explanation IPv6 failed to create txlist resource.

Recommended Action Dump core, then restart component

Error Message IPV6-3-M6RIB_ADD_ROUTE: M6RIB add route failed in [chars] for VRF [chars]

Explanation IP failed to add route in M6RIB.

Recommended Action No special action is required.

Error Message IPV6-3-MALLOC_FAILED_PREFIX: [chars] failed in [chars] for [chars]

Explanation IPV6 process is out of free memory.

Recommended Action No special action is required.

Error Message IPV6-3-MALLOC_FAILED: [chars] failed in [chars]

Explanation IPv6 process is out of free memory.

Recommended Action No special action is required.

Error Message IPV6-3-MBUF_FAILED: [chars] failed in [chars] ([dec] bytes)

Explanation IPV6 process is out of mbufs.

Recommended Action No special action is required.

Error Message IPV6-3-MQ_FAILED_NAME: [chars] failed in [chars] for client [chars], errno: [chars]

Explanation IPv6 failed to access message-queue resource for the client.

Recommended Action No special action is required.

Error Message IPV6-3-MQ_FAILED_PID: [chars] failed in [chars] to client pid: [dec], errno: [chars]

Explanation IPv6 failed to access message-queue resource for the client.

Recommended Action No special action is required.

Error Message IPV6-3-MQ_FAILED: [chars] failed in [chars], errno: [chars]

Explanation IPv6 failed to access message-queue resource.

Recommended Action No special action is required.

Error Message IPV6-3-MTS_FAILED_NAME: [chars] failed in [chars] for client [chars], errno: [chars]

Explanation IPv6 failed to access mts-queue resource for the client.

Recommended Action No special action is required.

Error Message IPV6-3-MTS_FAILED_PID: [chars] failed in [chars] to client pid: [dec], errno: [chars]

Explanation IPv6 failed to access mts-queue resource for the client.

Recommended Action No special action is required.

Error Message IPV6-3-MTS_FAILED: [chars] failed in [chars], errno: [chars]

Explanation IPv6 failed to access mts-queue resource.

Recommended Action No special action is required.

Error Message IPV6-3-PID_CONFLICT: Client is using pid: [dec]/[dec] with different extended pid: [dec]

Explanation Multiple clients have same process ids.

Recommended Action No special action is required.

Error Message IPV6-3-PTHREAD_FAILED: [chars] failed for [chars] in [chars]

Explanation IPv6 process failed to create a task thread.

Recommended Action Dump core, then reload the stack

Error Message IPV6-3-REG_FAILED: Failed to register with IPv6

Explanation Component API call failed in IPv6.

Recommended Action No special action is required.

Error Message IPV6-3-SYSMGR_DISPATCH: Error returned from sysmgr_dispatch(), errno: [chars]

Explanation IPv6 called a System Manager API which returned an error.

Recommended Action Dump core, then restart component

Error Message IPV6-3-U6RIB_BAD_IPC: U6RIB corrupted IPC message suspected

Explanation IPv6 process received invalid IPC message from U6RIB.

Recommended Action No special action is required.

Error Message IPV6-3-UNKNOWN_MTYPE: Unknown mtype: [dec]/[dec] opcode [dec] in [chars]

Explanation IPv6 process received unknown Interprocess message, dropped.

Recommended Action No special action is required.

[IPV6-4](#)

Error Message IPV6-4-IPV6_MTS_DROP: Error returned from mts_drop(), errno: [chars]

Explanation IPv6 called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message IPV6-4-M6RIB_SM_ADDR: M6RIB shared memory not valid for mtype:[dec], xid:[dec], count:[dec]

Explanation M6RIB shared memory being accesses is not valid

Recommended Action No special action is required.

[IPV6-6](#)

Error Message IPV6-6-FRAME_LENGTH_SHORT: Frame length: [dec] less than IPv6 payload length: [dec] for packet received on interface [chars] from source address [chars]

Explanation The packet has invalid frame length, dropped.

Recommended Action No special action is required.

Error Message IPV6-6-IPV6_STATS_ERROR: Failed to get hardware statistics for interface [chars], reason [chars]

Explanation IPv6 could not get the requested statistics from the hardware.

Recommended Action No special action is required.

Error Message IPV6-6-v6_REG_SEND_MSG: Suppress PIM6 Data Register for ([chars], [chars]) due to suppression-timer

Explanation Suppress PIM6 Data Register due to suppression-timer.

Recommended Action No special action is required.

[IP Messages](#)

This section contains the IP messages.

IP-2

Error Message IP-2-CRIT_FAILURE: Failed to [chars]

Explanation A Critical operation has failed in the IP process

Recommended Action Dump core, then restart component

Error Message IP-2-IP_NS_NETLINK_CREATE_FAILED: NS ([chars]) Netlink socket create failed ([dec])

Explanation NS Netlink socket create failed

Recommended Action Report the issue to Customer Support

Error Message IP-2-IP_STARTUP_FAILURE: Failed to [chars] during startup. error [dec]

Explanation A Critical operation has failed during startup of the IP process

Recommended Action No special action is required.

Error Message IP-2-NAT_MAX_LIMIT: NAT: Can't create dynamic translations, [chars]

Explanation The configured max limit is reached.

Recommended Action No special action is required.

IP-3

Error Message IP-3-CV_INIT: Couldn't init cond var [chars]

Explanation IP process failed to initialize conditional-variable resource.

Recommended Action Dump core, then restart component

Error Message IP-3-INVALID_IF_INDEX: Invalid interface index received from [dec]

Explanation Invalid interface index received

Recommended Action Report the issue to Customer Support

Error Message IP-3-IP_CLIENT_GET: HA client filter recovery failed ([dec])

Explanation HA client filter recovery failed

Recommended Action Report the issue to Customer Support

Error Message IP-3-IP_CLNT_FAILURE: Invalid IP registration reply. Message major type [dec], minor type [dec]

Explanation An IP client has failed in the registration process with IP

Recommended Action Report the issue to Customer Support

Error Message IP-3-IP_FAILURE: Failed to [chars]

Explanation A Critical operation has failed in the IP process

Recommended Action Report the issue to Customer Support

Error Message IP-3-IP_HA_UPDATE: HA update failed ([dec])

Explanation HA update failed

Recommended Action Report the issue to Customer Support

Error Message IP-3-IP_INTERNAL_ERROR: [chars]

Explanation An internal error has occurred in the IP process

Recommended Action Report the issue to Customer Support

Error Message IP-3-IP_INTF_DAMPENED: Interface [chars] is suppressed

Explanation Interface got deactivated for L3 service due to frequent flappings

Recommended Action Please check the interface link. This link is frequently changing

Error Message IP-3-IP_INTF_UNDAMPENED: Interface [chars] is unsuppressed

Explanation Interface got activated for L3 service

Recommended Action No special action is required.

Error Message IP-3-IP_MSG_TO_TLV: TLV Conversion failed ([dec])

Explanation TLV conversion failed

Recommended Action Report the issue to Customer Support

Error Message IP-3-IP_MTSDROP: Error returned from mts_drop(), errno: [chars]

Explanation IP called a MTS API which returned an error.

Recommended Action No special action is required.

Error Message IP-3-IP_MTSRECV: Error returned from mts_rcv(), errno: [chars]

Explanation IP called a MTS API which returned an error.

Recommended Action No special action is required.

Error Message IP-3-IP_MTSSEND: Error returned from mts_send(), errno: [chars]

Explanation IP called a MTS API which returned an error.

Recommended Action No special action is required.

Error Message IP-3-IP_NO_MBUF: Failed to allocate mbuf [chars]

Explanation The IP process has run out of network buffers

Recommended Action Report the issue to Customer Support

Error Message IP-3-IP_NO_MEM: Failed to allocate private memory for [chars]

Explanation The IP process has run out of private memory

Recommended Action Report the issue to Customer Support

Error Message IP-3-IP_THR_CREATE: Failed to create [chars] thread. error [dec]

Explanation A failure occurred while creating a thread

Recommended Action Report the issue to Customer Support

Error Message IP-3-IP_TLV_TO_STRUCT: TLV to Struct Conversion failed ([dec])

Explanation TLV to Struct conversion failed

Recommended Action Report the issue to Customer Support

Error Message IP-3-IP_UNK_MSG: Unrecognized message major type [dec], minor type [dec]

Explanation An unknown message was received from another process

Recommended Action Report the issue to Customer Support

Error Message IP-3-MRIB_ADD_ROUTE: MRIB add route failed in [chars] for VRF [chars]

Explanation IP failed to add route in MRIB.

Recommended Action No special action is required.

Error Message IP-3-MRIB_DELETE_ROUTE: MRIB delete route failed in [chars] for VRF [chars]

Explanation IP failed to delete route from MRIB.

Recommended Action No special action is required.

Error Message IP-3-MV_INIT: Couldn't init mutex [chars]

Explanation IP process failed to initialize mutex system resource.

Recommended Action Dump core, then restart component

Error Message IP-3-NO_SH_MEM: Failed to allocate shared memory [chars]

Explanation The IP process has run out of shared memory

Recommended Action Report the issue to Customer Support

Error Message IP-3-PSS_API_INIT: Ksink pss API init failed ([dec])

Explanation Ksink pss API init failed

Recommended Action Report the issue to Customer Support

Error Message IP-3-TXLIST_CREATE: Couldn't create txlist for [chars]

Explanation IP failed to create txlist resource.

Recommended Action Dump core, then restart component

Error Message IP-3-URIB_ERR: Failed to [chars] urib

Explanation A failure occurred in a transaction with URIB

Recommended Action Report the issue to Customer Support

IP-6

Error Message IP-6-BAD_ICMP_PKT: Received ICMP packet with bad length ([dec]). Min len [dec], Adv len [dec], IP hdr length [dec], Expected IP hdr len [dec]

Explanation An ICMP packet was received with a bad length

Recommended Action No special action is required.

Error Message IP-6-IM_RECOVER_ERROR: Failed to recover correct information for interface [chars] [dec]

Explanation IP could not recover the info for interface

Recommended Action No special action is required.

Error Message IP-6-IP_MTS_UNKNOWN_MSG: Received unknown MTS message with opcode [dec], dropping it

Explanation IP received an unknown message. The message is dropped

Recommended Action No special action is required.

Error Message IP-6-IP_UNK_MSG_MAJOR: Unrecognized message from [chars]. Major type [dec]

Explanation An unknown message (major) was received from another process

Recommended Action Report the issue to Customer Support

Error Message IP-6-IP_UNK_MSG_MINOR: Unrecognized message from [chars]. Minor type [dec]

Explanation An unknown message (minor) was received from another process

Recommended Action Report the issue to Customer Support

Error Message IP-6-MQ_FLUSH: Flushing [dec] messages from the MRIB message queue

Explanation The MRIB message queue was flushed after a restart of the IP process

Recommended Action No special action is required.

Error Message IP-6-REG_SEND_MSG: Suppress PIM Data Register for ([chars], [chars]) due to suppression-timer

Explanation Suppress PIM Data Register due to suppression-timer.

Recommended Action No special action is required.

Error Message IP-6-STATS_ERROR: Failed to get hardware statistics for interface [chars], reason [chars]

Explanation IP could not get the requested statistics from the hardware.

Recommended Action No special action is required.

Error Message IP-6-SYSMAN_CLEANUP: Terminated by SYSMAN cleanup signal [dec]

Explanation System Manager sent a cleanup signal to IP to exit the process

Recommended Action No special action is required.

[IP-7](#)

Error Message IP-7-INVALID_NOTIFY: [chars]

Explanation UNEXPECTED_ERROR_EXPLANATION

Recommended Action No special action is required.

ISIS Messages

This section contains the ISIS messages.

ISIS-2

Error Message ISIS-2-AVL_FAIL: Add to CSNP cache failed: [chars] - [chars]

Explanation An unexpected but handleable event has occurred.

Recommended Action Restart component

Error Message ISIS-2-HOLDDOWN: Failed to enable process after sequence number wrap holddown.

Explanation An unexpected but handleable event has occurred.

Recommended Action Restart component

Error Message ISIS-2-IIB_EXT: [chars] extension msg for [chars] ([dec]) - [chars]

Explanation An unexpected but handleable event has occurred.

Recommended Action Restart component

Error Message ISIS-2-IM_DEL: Delete msg for [chars] ([dec]) iib [hex] - iib iod [dec]
mismatched

Explanation An unexpected but handleable event has occurred.

Recommended Action Restart component

Error Message ISIS-2-ISIS_RST_HMM_OFF: HMM is disabled, FP ISIS will restart in FabricPath
mode

Explanation IS-IS for FabricPath restarts due to a major mode change

Recommended Action No special action is required.

Error Message ISIS-2-ISIS_RST_HMM_ON: HMM is enabled, FP ISIS will restart in DFA mode

Explanation IS-IS for Fabric Path restarts due to a major mode change

Recommended Action No special action is required.

Error Message ISIS-2-LSP_FREE_LINK: L[dec] [chars] is already on free list

Explanation An unexpected but handleable event has occurred.

Recommended Action Restart component

Error Message ISIS-2-MCAST_ADD: Failed to add L[dec] multicast address

Explanation Was unable to join to the appropriate multicast group on an interface.

Recommended Action Restart component

Error Message ISIS-2-MEM_ERR: Insufficient memory for [chars]

Explanation Memory is not available for adding SNP entries

Recommended Action Restart component

Error Message ISIS-2-MQRCVD: [chars] thread - message queue receive failure <[dec]>

Explanation An unexpected but handleable event has occurred.

Recommended Action Restart component

Error Message ISIS-2-REDIST_PIB_SHM: Failed to attach to redistributing PIB's SHM [chars]

Explanation An unexpected but handleable event has occurred.

Recommended Action Restart component

Error Message ISIS-2-ROUTE_BUF_OVERFLOW: [chars] route buffer overflow at entry [dec]

Explanation An unexpected but handleable event has occurred.

Recommended Action Restart component

Error Message ISIS-2-ROUTE_NOTIFY: Route notifications to the RIB are not possible. This will result in stale state in the FIB.

Explanation An unexpected but handleable event has occurred.

Recommended Action Restart component

Error Message ISIS-2-RUNTIME_CLEANUP_FAILURE: Unexpected runtime cleanup failure. Failed to [chars]

Explanation An unexpected software error has occurred while cleaning up a sub-component.

Recommended Action Restart component

Error Message ISIS-2-RUNTIME_EXIT_FAIL: Deregister with [chars] failed with error [chars]

Explanation IS-IS was unable to deregister with a server

Recommended Action No special action is required.

Error Message ISIS-2-RUNTIME_INIT_FAILURE: Unexpected runtime initialization failure. Failed to [chars]

Explanation An unexpected software error has occurred while initializing a sub-component.

Recommended Action Restart component

Error Message ISIS-2-STARTUP_FAILURE: Startup failure: Failed to [chars]

Explanation An unrecoverable software error has occurred during startup.

Recommended Action Reload the stack

Error Message ISIS-2-SUM_DIST: sum-addr [chars]/[dec] has zero route-dist candidate count

Explanation An unexpected but handleable event has occurred.

Recommended Action Restart component

Error Message ISIS-2-TLV_MIGRATE: L[dec] [chars] still has TLV during migration

Explanation An unexpected but handleable event has occurred.

Recommended Action Restart component

Error Message ISIS-2-URIB_ADD_RNH_FAILURE: Cannot add RNH to [chars]

Explanation An unexpected but handleable event has occurred.

Recommended Action Restart component

Error Message ISIS-2-URIB_UPDATE: Failed to notify SPF thread about route update buffer availability

Explanation An unexpected but handleable event has occurred.

Recommended Action Restart component

ISIS-3

Error Message ISIS-3-AVL_LOOKUP: Can't locate CSNP fragment for [chars]

Explanation SNP cache may get cleaned up during normal operation

Recommended Action Keep running, do nothing special

Error Message ISIS-3-BFD_SESSION_REMOVE: Failed to remove BFD session, error [chars]

Explanation Unable to remove BFD sessions.

Recommended Action Keep running, do nothing special

Error Message ISIS-3-ISIS_HA_PSS: HA Persistent-store failure for [chars] [chars]: [chars]

Explanation A software error has occurred during HA. Stateful HA recovery will be disabled

Recommended Action No special action is required.

Error Message ISIS-3-LSP_REFRESH: Refresh non-self-originated level-[dec] LSP [chars]

Explanation An unexpected but handleable event has occurred.

Recommended Action Keep running, do nothing special

Error Message ISIS-3-MBUF_COPY: Error 0x[hex] copy [dec] bytes packet from [chars][chars]

Explanation An unexpected but handleable event has occurred.

Recommended Action Keep running, do nothing special

Error Message ISIS-3-MCAST_DEL: Failed to remove L[dec] multicast address

Explanation Was unable to leave from the appropriate multicast group on an interface.

Recommended Action Keep running, do nothing special

Error Message ISIS-3-MTS_DROP: Error returned from mts_drop(), errno: [chars]

Explanation ISIS called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message ISIS-3-MTS_RECV: Error returned from mts_recv(), errno: [chars]

Explanation ISIS called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message ISIS-3-MTS: Error returned from MTS operation [chars], errno: [chars]

Explanation ISIS called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message ISIS-3-NOTIFY_THREAD: Failed to notify [chars] thread - Reschedule

Explanation An unexpected but handleable event has occurred.

Recommended Action Keep running, do nothing special

Error Message ISIS-3-NO_HELPER_IIB: No helper iib for [chars]

Explanation An unexpected but handleable event has occurred.

Recommended Action Keep running, do nothing special

Error Message ISIS-3-OTV_INFO: Failed to retrieve OTV [chars] info [chars]

Explanation Unable to retrieve OTV information

Recommended Action Keep running, do nothing special

Error Message ISIS-3-OTV_SITE_CAP: Failed to add/remove otv site/net-id capability conf check, error [chars]

Explanation Unable to add conf check.

Recommended Action Keep running, do nothing special

Error Message ISIS-3-PIB_UP: Failed to bring up protocol

Explanation An unexpected but handleable event has occurred.

Recommended Action No special action is required.

Error Message ISIS-3-PT_ADD: Couldn't add entry to [chars] PT

Explanation ISIS failed to update a local database entry.

Recommended Action No special action is required.

Error Message ISIS-3-PT_DEL: Couldn't delete entry for [chars] from [chars] PT

Explanation ISIS failed to delete an entry from a local database.

Recommended Action No special action is required.

Error Message ISIS-3-RPM_CALLBACK: RPM Callback handle and/or user data missing

Explanation An attempt to obtain RPM Keychain information failed.

Recommended Action No special action is required.

Error Message ISIS-3-SELF_LSP_CLEANUP: Cleanup L[dec] LSP [chars] with non-null TLV list

Explanation An unexpected but handleable event has occurred.

Recommended Action Keep running, do nothing special

Error Message ISIS-3-SLAB_ALLOC: Slab alloc of type [chars] failed for [chars]

Explanation ISIS process failed to allocate Slab memory.

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

Error Message ISIS-3-SPF_ADJ_DEL: Deleting SPF adj with refcount [dec]

Explanation An unexpected but handleable event has occurred.

Recommended Action Keep running, do nothing special

Error Message ISIS-3-SRAPP_REGISTER_CB: SR-APP register callback error [dec] ([chars])
[chars]

Explanation IS-IS failed to complete registration with SR-APP

Recommended Action Restart component

Error Message ISIS-3-ULIB_REGISTER_CB: Ulib register callback error [dec] ([chars]) [chars]

Explanation IS-IS failed to complete registration with Ulib

Recommended Action Restart component

Error Message ISIS-3-UNK_DEB_FLAG: Ignore unrecognized debug flag "[chars]"

Explanation An unexpected but handleable event has occurred.

Recommended Action Keep running, do nothing special

Error Message ISIS-3-UNK_IP_NOTIF: Unrecognized IP address change notification type [dec]

Explanation An unexpected but handleable event has occurred.

Recommended Action Keep running, do nothing special

Error Message ISIS-3-UNK_LSP_TIMER: Unrecognized LSP timer type [dec] for level-[dec] LSP [chars]

Explanation An unexpected but handleable event has occurred.

Recommended Action Keep running, do nothing special

Error Message ISIS-3-UNK_MSG_MAJOR: [chars] thread - Unrecognized message major type [dec]

Explanation An unexpected but handleable event has occurred.

Recommended Action Keep running, do nothing special

Error Message ISIS-3-UNK_MSG_MINOR: Unrecognized [chars] message minor type [dec]

Explanation An unexpected but handleable event has occurred.

Recommended Action Keep running, do nothing special

Error Message ISIS-3-UNK_MTS_OPC: [chars] thread - Unrecognized MTS opcode [dec]

Explanation An unexpected but handleable event has occurred.

Recommended Action Keep running, do nothing special

Error Message ISIS-3-UNK_SYSMGR_NOTIFY: Unexpected registration received from process [dec]

Explanation An unexpected but handleable event has occurred.

Recommended Action Keep running, do nothing special

Error Message ISIS-3-VLAN_MGR: Error in parsing [chars] message from VLAN Manager

Explanation An unexpected but handleable event has occurred.

Recommended Action Keep running, do nothing special

Error Message ISIS-3-WEIRD_CACHE: Inconsistent cache [hex] [chars] [chars]

Explanation An unexpected but handleable event has occurred.

Recommended Action Keep running, do nothing special

ISIS-4

Error Message ISIS-4-ADD_DEL_ULIB_ERR: Failed to [chars] [dec] route(s) xid [dec] to ULIB

Explanation IS-IS failed to update route information into ULIB

Recommended Action Restart component

Error Message ISIS-4-ADD_DEL_URIB_ERR: Failed to [chars] [dec] [chars] route(s) xid [dec] to URIB

Explanation IS-IS failed to update route information into URIB

Recommended Action Restart component

Error Message ISIS-4-ADD_UNK_NH_ADDR: Attempt to add for L[dec] [chars]/[dec] on [chars] 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.

Recommended Action Configure all IS-IS routers at the same level to have the same address families enabled.

Error Message ISIS-4-ADJ_ADVT: Failed to advertise level [dec] adjacency [chars]

Explanation IS-IS was unable to advertise the indicated adjacency.

Recommended Action No special action is required.

Error Message ISIS-4-DUP_IP_ADDRESS: IP address [chars] has been used by [chars] and [chars]

Explanation IS-IS has detected two systems using the same IP address

Recommended Action ACTION_ISIS_CONFIG_DIFF_IP_ADDRESS

Error Message ISIS-4-FTAG_CBL_UPD: Ftag CBL update failed with error code [dec], please use appropriate show commands to check the CBL state on the ports

Explanation ISIS FTAG CBL update

Recommended Action No special action is required.

Error Message ISIS-4-ILLEGAL_PREFIX: Ignore internal L[dec] route [chars]/[dec] with external metric from [chars]

Explanation IS-IS has detected an internal route advertised with external metric, which is an illegal combination, by a router within the network

Recommended Action Either configure the indicated router to not originate the incorrect information, or update the router's software to a version which does not originate the information incorrectly.

Error Message ISIS-4-LAN_DUP_SYSID: L[dec] LAN IIH - Duplicate system ID [chars] detected over [chars] from [chars]

Explanation IS-IS has detected another system on the indicated LAN that is reusing the local system ID

Recommended Action Configure either the local or remote router with a different system ID.

Error Message ISIS-4-LSPFULL_FAILED_DROP: L[dec] [chars] LSP is full and couldn't remove lower priority TLVs to make room for type [dec] 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.

Recommended Action Configure IS-IS so that less information will be distributed in the router's LSP.

Error Message ISIS-4-LSPFULL_FORCED_DROP: L[dec] [chars] LSP is full, removed lower priority TLVs to make room for type [dec] 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.

Recommended Action Configure IS-IS so that less information will be distributed in the router's LSP.

Error Message ISIS-4-LSPFULL: L[dec] [chars] LSP space is full

Explanation There is no storage space left for routing information in the router's LSP

Recommended Action Configure IS-IS so that less information will be distributed in the router's LSP.

Error Message ISIS-4-LSP_DUP_SYSID: L[dec] LSP - Possible duplicate system ID [chars] detected

Explanation IS-IS has detected another non-directly connected system that is reusing the local system ID.

Recommended Action Configure either the local or remote router with a different system ID.

Error Message ISIS-4-MCAST_VLAN: Invalid Mcast-Interest message from Swid [dec]: start_vlan [dec], end_vlan [dec]

Explanation IS-IS for FabricPath received a malformed update

Recommended Action No special action is required.

Error Message ISIS-4-NO_CID: Cannot allocate CID for [chars] - 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.

Recommended Action Disable IS-IS on one or more broadcast interfaces, or convert the interface to point-to-point mode.

Error Message ISIS-4-NO_MEM: No memory event detected

Explanation An attempt to allocate from free memory failed.

Recommended Action Out of memory. Add more memory to the router

Error Message ISIS-4-P2P_DUP_SYSID: P2P IIR - Duplicate system ID [chars] detected over [chars]

Explanation IS-IS has detected another system on the indicated P2P that is reusing the local system ID.

Recommended Action Configure either the local or remote router with a different system ID.

Error Message ISIS-4-PROC_NO_MEM: 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 Restart component

Error Message ISIS-4-REDIST_MAX_ROUTE: Redistribution route limit has been reached - [dec] routes

Explanation ISIS redistribution: Max limit

Recommended Action No special action is required.

Error Message ISIS-4-REDIST_THR_ROUTE: Redistribution threshold has been reached - [dec] routes

Explanation ISIS redistribution: Threshold limit

Recommended Action No special action is required.

Error Message ISIS-4-SEQWRAP: 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 special action is required.

Error Message ISIS-4-SR_INDEX_OUT_OF_NH_RANGE: Index [dec] for prefix [chars] (from [chars]) is out of srgb range of next-hop [chars]

Explanation Index Value advertised with Prefix too large for range of next-hop node

Recommended Action No special action is required.

ISIS-5

Error Message ISIS-5-ADJCHANGE: [chars] adj L[chars] [chars] over [chars] - [chars] on MT-[dec]

Explanation The indicated adjacency has changed state.

Recommended Action No special action is required.

Error Message ISIS-5-NH_DEL: Cleanup L[dec] route [chars]/[dec] has [chars] next hop

Explanation An unexpected but handleable event has occurred.

Recommended Action Keep running, do nothing special

Error Message ISIS-5-PROC_SEQWRAP: Handle sequence number wraparound - disabling process for [dec] secs

Explanation An LSP's sequence number has wrapped, and the process will be disabled for the correct length of time.

Recommended Action No special action is required.

Error Message ISIS-5-SELF_RESTART: Fabricpath ISIS self-restarting due to [chars] [chars] [chars]

Explanation Fabricpath ISIS process is performing a self-restart.

Recommended Action No special action is required.

Error Message ISIS-5-SHUTDOWN: ISIS process [chars] administratively [chars]

Explanation ISIS protocol was administratively up/shutdown.

Recommended Action No special action is required.

ISIS-6

Error Message ISIS-6-JUMBO_PDU: Drop [dec] bytes jumbo PDU with [dec] bytes buffer from [chars][chars]

Explanation IS-IS has received a packet that exceeds the maximum supported size. The packet will be dropped.

Recommended Action No special action is required.

Error Message ISIS-6-MODE_NO_FUNC: No callback function registered for [chars] in [chars] mode

Explanation IS-IS encountered a problem where no callback function has been registered in the given mode

Recommended Action No special action is required.

Error Message ISIS-6-SEQWRAP_HOLDDOWN: 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 special action is required.

Error Message ISIS-6-SHUTDOWN_FAILURE: Shutdown failure. Failed to [chars] - [chars]

Explanation IS-IS request to system manager for permission to shutdown was declined.

Recommended Action No special action is required.

Error Message ISIS-6-START: Process start. Reason - [chars]

Explanation ISIS process start with specified reason

Recommended Action No special action is required.

Error Message ISIS-6-STOP: Process stop. Reason - [chars]

Explanation ISIS process stop with specified reason

Recommended Action No special action is required.

Error Message ISIS-6-SWITCH_ROLE: User has set root priority for MT-[dec]

Explanation User set priority will over-ride role based priority

Recommended Action No special action is required.

Error Message ISIS-6-SYSMAN_CLEANUP: Terminated by SYSMAN cleanup signal

Explanation IS-IS has been signaled to exit.

Recommended Action No special action is required.

Error Message ISIS-6-UNK_NLPID: Unrecognized NLP ID [hex] from [chars][chars]

Explanation IS-IS has received a packet with an NLPID which it does not recognize. The packet will be dropped.

Recommended Action No special action is required.

Error Message ISIS-6-UNK_PDU: Unrecognized PDU type [dec] from [chars][chars]

Explanation IS-IS has received a packet of a type which it does not recognize. The packet will be dropped.

Recommended Action No special action is required.

L3VM Messages

This section contains the L3VM messages.

L3VM-2

Error Message L3VM-2-CLIS: Config load failure: [chars] in [chars]()

Explanation An unrecoverable error occurred while fetching config from CLIS

Recommended Action No special action is required.

Error Message L3VM-2-CONFIG_WAIT: Deletion of VRF [chars] in progress; wait for it to complete

Explanation VRF in delete pending or holddown already

Recommended Action No special action is required.

Error Message L3VM-2-SDB_ERR: Error returned from [chars], uri: [chars] errno: 0x[hex] ([chars]) in [chars]()

Explanation L3VM called an SDB API which returned an error

Recommended Action No special action is required.

Error Message L3VM-2-SDB_NOTIF: Error returned from [chars], uri: [chars] in [chars]()

Explanation L3VM sent SDB create-delete notification which returned an error

Recommended Action No special action is required.

Error Message L3VM-2-STARTUP_FAILURE: Startup failure: failed to [chars] in [chars]()

Explanation An unrecoverable software error has occurred during l3vm startup.

Recommended Action Reload the stack

Error Message L3VM-2-TIB_ID_RAVL: [chars] failed with table id 0x[hex] in [chars]()

Explanation L3vm called an AVL API that has failed

Recommended Action No special action is required.

L3VM-3

Error Message L3VM-3-API_FAILED: [chars] - failed in [chars]()

Explanation L3vm called an API that has failed

Recommended Action No special action is required.

Error Message L3VM-3-ASSERT_ERROR: [chars]:[dec]: Assertion "[chars]" failed.

Explanation

Recommended Action No special action is required.

Error Message L3VM-3-CLIENT_UNREGISTERED: [chars]() - Client not registered

Explanation Client has not registered its mts queue with l3vm library

Recommended Action No special action is required.

Error Message L3VM-3-CMI_MTSEND_FAILURE: mts_send() failure for client [chars]: [chars]

Explanation L3VM was unable to send mts message to a particular client.

Recommended Action No special action is required.

Error Message L3VM-3-CMI_PAYLOAD_CONV_ERR: CMI payload conversion error failure from [chars] order to [chars] order

Explanation The cmi payload conversion did not occur successfully.

Recommended Action No special action is required.

Error Message L3VM-3-CONFHECK: confcheck API [chars]() failed with error: [chars](0x[hex]).

Explanation Confcheck API failed

Recommended Action No special action is required.

Error Message L3VM-3-CONTEXT: Cannot find [chars] context in [chars]()

Explanation Cannot find a given context in the system

Recommended Action No special action is required.

Error Message L3VM-3-IM: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

Explanation L3VM called a IM API which returned an error.

Recommended Action No special action is required.

Error Message L3VM-3-INTERERROR: Internal Error [chars] in [chars]()

Explanation PSS API FAILED

Recommended Action No special action is required.

Error Message L3VM-3-INVALID_ARG: invalid arguments - [chars] - in [chars]()

Explanation Invalid arguments passed in an l3vm function

Recommended Action No special action is required.

Error Message L3VM-3-LIBAPI_FAILED: [chars] - failed in [chars]()

Explanation L3vm called an API that has failed

Recommended Action No special action is required.

Error Message L3VM-3-LIBINIT: Unable to retrieve [chars], L3VM library not initialized by client

Explanation Client has not initialized by calling l3vm_api_init()

Recommended Action No special action is required.

Error Message L3VM-3-LIBMTS: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

Explanation L3VM library called an MTS API which returned an error.

Recommended Action No special action is required.

Error Message L3VM-3-LIB_INVALID_ARG: invalid arguments - [chars] - in [chars]()

Explanation Invalid arguments passed in an l3vm function

Recommended Action No special action is required.

Error Message L3VM-3-LIB_NOMEM: Failed to allocate [chars] in [chars]()

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.

Recommended Action Reload the stack

Error Message L3VM-3-MTS_DROP: Error returned from mts_drop(), error: [chars]

Explanation An MTS API returned an error when L3VM tried to drop a message.

Recommended Action No special action is required.

Error Message L3VM-3-MTS_ETIME: MTS Timer Expired in [chars]

Explanation MTS Timer Expired

Recommended Action No special action is required.

Error Message L3VM-3-MTS_NO_PAYLOAD_ERROR: Received MTS message with no payload on [chars] queue with opcode [dec], dropping it

Explanation L3VM recieved an unknown message. The message is dropped

Recommended Action No special action is required.

Error Message L3VM-3-MTS: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

Explanation L3VM called an MTS API which returned an error.

Recommended Action No special action is required.

Error Message L3VM-3-NOALLOC: [chars] - failed in [chars]()

Explanation L3vm called an API that has failed

Recommended Action No special action is required.

Error Message L3VM-3-NOMEM: Failed to allocate [chars] in [chars]()

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.

Recommended Action Reload the stack

Error Message L3VM-3-OBJSTORE_FAILURE: [[chars]] [chars]: 0x[hex]

Explanation L3VM is experiencing failure in Object Store functionality This can be caused by a corruption of internal state.

Recommended Action Reload the stack

Error Message L3VM-3-OBJSTORE_WARNING: [[chars]] [chars]: 0x[hex]

Explanation L3VM is experiencing failure in Object Store functionality This can be caused by a corruption of internal state. L3VM will retry the operation later

Recommended Action No special action is required.

Error Message L3VM-3-PENDING_SDB_WRITE: SDB write operation is pending for [chars] in [chars]()

Explanation L3VM discovered that there is a pending sdb operation

Recommended Action No special action is required.

Error Message L3VM-3-PSSERROR: PSS Error [chars] in [chars]()

Explanation PSS API FAILED

Recommended Action No special action is required.

Error Message L3VM-3-PSSSRV: PSS Service Error - [chars] - in [chars]()

Explanation PSS Service does not exist

Recommended Action No special action is required.

Error Message L3VM-3-PSS: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

Explanation L3VM called a PSS API which returned an error.

Recommended Action No special action is required.

Error Message L3VM-3-RRM_LIMIT: VRF resource limit reached, errno: 0x[hex] ([chars])

Explanation L3VM called an resource manager API which returned an error.

Recommended Action No special action is required.

Error Message L3VM-3-RRM: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

Explanation L3VM called an resource manager API which returned an error.

Recommended Action No special action is required.

Error Message L3VM-3-SDB_OPEN: Error opening [chars], errno: 0x[hex] ([chars]) in [chars]()

Explanation L3VM called sdb_open which returned an error.

Recommended Action No special action is required.

Error Message L3VM-3-SDB_READ: Error reading [chars], errno: 0x[hex] ([chars]) in [chars]()

Explanation L3VM called sdb_read which returned an error.

Recommended Action No special action is required.

Error Message L3VM-3-SDB: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

Explanation L3VM called an SDB API which returned an error.

Recommended Action No special action is required.

Error Message L3VM-3-SYSMGR: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

Explanation L3VM called a system manager API which returned an error.

Recommended Action No special action is required.

Error Message L3VM-3-TLVEERROR: TLV Conversion Error - [chars], Error:[chars] in [chars]()

Explanation TLV Conversion Error

Recommended Action No special action is required.

Error Message L3VM-3-TLVU_API_FAIL: TLVU failure: [chars]

Explanation L3VM process failed in invoking a TLVU API.

Recommended Action No special action is required.

Error Message L3VM-3-VDC: Error returned from [chars] in [chars]()

Explanation L3VM called an VDC API which returned an error.

Recommended Action No special action is required.

Error Message L3VM-3-VLANMGR: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

Explanation L3VM called a VLAN MGR API which returned an error.

Recommended Action No special action is required.

Error Message L3VM-3-VRF_ERROR: [chars]: [chars]

Explanation Illegal operation or command on a VRF

Recommended Action No special action is required.

L3VM-4

Error Message L3VM-4-STATE_MISMATCH: state mismatch - [chars] - in [chars]()

Explanation L3VM was in an unexpected state

Recommended Action No special action is required.

Error Message L3VM-4-VRF_MEMBER_RETAIN: [chars]

Explanation VRF member retain configure warning

Recommended Action No special action is required.

Error Message L3VM-4-VRF_VNI: [chars]

Explanation VRF-VNI configure warning

Recommended Action No special action is required.

L3VM-5

Error Message L3VM-5-UNK_MSG_MINOR: Unrecognized message minor type [dec] in [chars]()

Explanation L3vm received an unrecognized MTS message format

Recommended Action No special action is required.

Error Message L3VM-5-UNK_MTS_EVENT: Unrecognized MTS event for opcode [dec] in [chars]()

Explanation L3vm received an unexpected event on a MTS message

Recommended Action No special action is required.

Error Message L3VM-5-UNK_MTS_OPC: Unrecognized MTS opcode [dec] in [chars]()

Explanation L3vm received an unexpected MTS message opcode

Recommended Action No special action is required.

L3VM-6

Error Message L3VM-6-OBJSTORE_INFO: [[chars]] [chars]

Explanation L3VM debug info.

Recommended Action No special action is required.

Error Message L3VM-6-RESTART_SHUTDOWN: L3VM shutting self down via restart command in [chars]()

Explanation L3VM process is shutting itself down

Recommended Action No special action is required.

Error Message L3VM-6-UNKNOWN_SDB_CTX: L3VM received unknown gsdb context 0x[hex] in [chars]()

Explanation L3VM process received ack for unknown operation on global database

Recommended Action No special action is required.

MSDP Messages

This section contains the MSDP messages.

MSDP-2

Error Message MSDP-2-API_INIT_SEM: Failed to init the client API semaphore: [chars], create: [chars]

Explanation MRIB could not create the semaphore that protects access to the shared memory between MRIB and its clients.

Recommended Action Reload the stack

Error Message MSDP-2-NO_ENQUEUE: Unable to enqueue send element for peer [chars]

Explanation MSDP process failed to send a message over the TCP socket to peer.

Recommended Action No special action is required.

Error Message MSDP-2-NO_LISTEN_SOCKET: Fatal error, can't get listen socket setup in [chars]

Explanation MSDP process failed to obtain TCP packet.

Recommended Action Dump core, then restart component

Error Message MSDP-2-OUT_OF_SYNC_TCP_LEN: TCP data stream may be out of sync, suspect TLV length of [dec] from peer [chars]

Explanation MSDP process received invalid packet length from peer.

Recommended Action No special action is required.

Error Message MSDP-2-OUT_OF_SYNC_TCP_TYPE: TCP data stream may be out of sync, suspect TLV type of [dec] from peer [chars]

Explanation MSDP process received malformed TLV from peer.

Recommended Action No special action is required.

Error Message MSDP-2-RES_MGR: Error returned from [chars] for [dec] keys, errno: 0x[hex] ([chars]) in [chars](). Current reservation is [dec], new size is [dec]

Explanation The resource manager returned an error to MRIB, while MRIB was performing an action relating to its shared memory

Recommended Action Reload the stack

Error Message MSDP-2-SEND_BYTES_MISMATCH: Bytes sent([dec]) exceeded Bytes to send([dec]) for [chars] in [chars]

Explanation Number of Bytes sent to MSDP Peer exceeded Bytes to send

Recommended Action No special action is required.

Error Message MSDP-2-SEND_QUEUE_CORRUPT: Send queue corrupted for peer [chars]

Explanation The TCP socket send queue is corrupted. Connection to peer will be reset.

Recommended Action No special action is required.

Error Message MSDP-2-STARTUP_FAILURE: Startup failure: [chars]

Explanation An unrecoverable software error has occurred during MRIB startup.

Recommended Action Reload the stack

MSDP-3

Error Message MSDP-3-ACCEPT: In [chars], [chars] failed with errmsg: [chars]

Explanation MSDP process failed to accept connection.

Recommended Action No special action is required.

Error Message MSDP-3-ACTIVE_TIMER_FAILED: 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 MSDP-3-ALREADY_RUNNING: MSDP already running, exiting - [chars]

Explanation Another MSDP process is already running, this process will shutdown.

Recommended Action No special action is required.

Error Message MSDP-3-API_FAILED: [chars] failed in [chars]

Explanation MSDP process failed in invoking an API.

Recommended Action No special action is required.

Error Message MSDP-3-API_FAILED: [chars] failed

Explanation MRIB process failed in invoking an API.

Recommended Action No special action is required.

Error Message MSDP-3-AS_NUMBER: MSDP/BGP local AS number is - [chars]

Explanation MSDP process local AS number

Recommended Action No special action is required.

Error Message MSDP-3-BITFIELD_FAILED: [chars] failed in [chars]

Explanation MRIB process could not execute the bitfield operation.

Recommended Action Dump core, then reload the stack

Error Message MSDP-3-CONF_CHECK: Failed to [chars] MRIB confcheck capability with error:
[chars]

Explanation MRIB failed to update config check capability in the system

Recommended Action ACTION_SW_KEEP_RUNNING

Error Message MSDP-3-CONTEXT_BF_FAILED: bitfield_create() failed for context [chars]

Explanation MRIB process failed to create a bitfield for mrib_ cibtype.

Recommended Action Dump core, then reload the stack

Error Message MSDP-3-CV_INIT: Couldn't init cond var [chars]

Explanation MRIB process failed to initialize conditional-variable resource.

Recommended Action Dump core, then restart component

Error Message MSDP-3-CV_INIT: Couldn't init cond var [chars]

Explanation MSDP process failed to initialize conditional-variable resource.

Recommended Action Dump core, then restart component

Error Message MSDP-3-FM_ERROR: FM could not shut down MSDP process

Explanation MSDP could not process the disable-req from FM

Recommended Action Dump core, then restart component

Error Message MSDP-3-GETSOCKNAME: In [chars], [chars] failed with errmsg: [chars]

Explanation TSP api tsp_getsockname returned error

Recommended Action No special action is required.

Error Message MSDP-3-INHERIT_FAILED: 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 special action is required.

Error Message MSDP-3-INIT_SDB: [chars] Return Code: 0x[hex] Error String: [chars]

Explanation SDB initialization failed

Recommended Action No special action is required.

Error Message MSDP-3-INVALID_GROUP: Operation for invalid group [chars] received in [chars]

Explanation MRIB process received invalid group.

Recommended Action No special action is required.

Error Message MSDP-3-INVALID_TLV: Invalid TLV, type: [dec], length: [dec] from peer [chars]

Explanation MSDP process received an invalid packet. Appropriate error packet returned.

Recommended Action No special action is required.

Error Message `MSDP-3-KSINK_LIB_ERROR: [chars] [chars]`

Explanation A severe error was encountered during ksink operations.

Recommended Action No special action is required.

Error Message `MSDP-3-LIB_API_FAILED: [chars] failed in [chars]`

Explanation Process failed in invoking an API.

Recommended Action No special action is required.

Error Message `MSDP-3-LIB_DUP_REGISTER: mrib_register(): duplicate register by "[chars]"`

Explanation Dupilcate registration request to the MRIB process, ignored.

Recommended Action No special action is required.

Error Message `MSDP-3-LIB_MTS_FAILED: [chars] failed in [chars], errno: [chars]`

Explanation Process failed to access the MSDP mts-queue.

Recommended Action No special action is required.

Error Message `MSDP-3-LIB_MTS_FAILED: [chars] failed in [chars], errno: [chars], for [chars]`

Explanation Failure in MRIB library to access mts-queue

Recommended Action No special action is required.

Error Message `MSDP-3-LIB_SEM_INVALID: [chars]:[dec]: semaphore invalid in [chars]`

Explanation MRIB semaphore was found to be invalid when performing a semaphore operation

Recommended Action No special action is required.

Error Message MSDP-3-LIB_SEM_OP: [chars]:[dec]: semaphore operation [chars] failed

Explanation Caller failed to get perform an operation on the MRIB semaphore

Recommended Action No special action is required.

Error Message MSDP-3-LIB_SM_FAILED: [chars] failed to access MRIB shared memory in [chars],
errno: [chars]

Explanation Process failed to access the System shared memory resource.

Recommended Action No special action is required.

Error Message MSDP-3-MALLOC_FAILED: [chars] failed for [chars]

Explanation MRIB process is out of free memory.

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

Error Message MSDP-3-MALLOC_FAILED: [chars] failed in [chars]

Explanation MSDP process is out of free memory.

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

Error Message MSDP-3-MDT_API_FAILED: [chars] failed in [chars]

Explanation MRIB process failed in invoking an API.

Recommended Action No special action is required.

Error Message MSDP-3-MFDM_NO_BUF: Cannot find MFDM buffer from route-ack for context [chars],
table-id 0x[hex]

Explanation MRIB process could not find a route buffer in it's queue from the MFDM message, ignored.

Recommended Action No special action is required.

Error Message MSDP-3-MQ_FAILED: [chars] failed in [chars], errno: [chars]

Explanation MSDP process failed to access the message-queue.

Recommended Action No special action is required.

Error Message MSDP-3-MQ_FAILED: [chars] failed in [chars], errno: [chars], for [chars]

Explanation MRIB process failed to access the message-queue.

Recommended Action No special action is required.

Error Message MSDP-3-MRIB_ALREADY_UP: mrib already running, exiting

Explanation Another MRIB process is already running, this process will shutdown.

Recommended Action No special action is required.

Error Message MSDP-3-MRIB_ROUTE: In [chars], [chars] failed to add mrib route

Explanation MSDP process failed to add mrib routes.

Recommended Action No special action is required.

Error Message MSDP-3-MSDP_INIT: MSDP init failed: [chars]

Explanation MSDP process initialization failed.

Recommended Action Dump core, then restart component

Error Message MSDP-3-MTS_BIND: Error returned from mts_bind() for [chars] mts queue, errno: [chars]

Explanation MRIB called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message MSDP-3-MTS_BIND: In [chars], [chars] failed due to [chars]

Explanation MSDP called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message MSDP-3-MTS_DROP: Error returned from mts_drop(), errmsg: [chars]

Explanation MSDP called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message MSDP-3-MTS_DROP: Error returned from mts_drop(), errno: [chars]

Explanation MRIB called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message MSDP-3-MTS_FAILED: [chars] failed in [chars], errno: [chars]

Explanation MSDP process failed to access the mts-queue.

Recommended Action No special action is required.

Error Message MSDP-3-MTS_FAILED: [chars] failed in [chars], errno: [chars], for [chars]

Explanation MRIB process failed to access the mts-queue.

Recommended Action No special action is required.

Error Message MSDP-3-MTS_NO_PAYLOAD_ERROR: Received MTS message with no payload on [chars] queue with opcode [dec], dropping it

Explanation MRIB received an unknown message. The message is dropped

Recommended Action Keep running, do nothing special

Error Message MSDP-3-MTS_RECV: Error returned from mts_recv(), errmsg: [chars]

Explanation MSDP called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message MSDP-3-MTS_RECV: Error returned from mts_recv(), errno: [chars]

Explanation MRIB called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message MSDP-3-MTS_REGISTER: Error returned from mts_register() for [chars] opcode, errno: [chars]

Explanation MRIB called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message MSDP-3-MTS_REGISTER: mts_register failed for MSDP: [chars]

Explanation MSDP was unable to register an MTS notification

Recommended Action No special action is required.

Error Message MSDP-3-MTS_SHORT_MSG_ERROR: Received short ([dec] < [dec]) MTS message on [chars] queue with opcode [dec], dropping it

Explanation MRIB received an unknown message. The message is dropped

Recommended Action Keep running, do nothing special

Error Message MSDP-3-MUTEX_INIT: Couldn't init mutex [chars]

Explanation MRIB process failed to initialize mutex system resource.

Recommended Action Dump core, then restart component

Error Message MSDP-3-MUTEX_INIT: Couldn't init mutex [chars]

Explanation MSDP process failed to initialize mutex system resource.

Recommended Action Dump core, then restart component

Error Message MSDP-3-NOSOURCE: Resetting peer due to VRF change for connect-source [chars]

Explanation The configured interface used for the connect-source has moved to another VRF.

Recommended Action No special action is required.

Error Message MSDP-3-NOTIFY_BUF_FAILED: Unable to create notification buffer's for client [chars], aborting registration.

Explanation MRIB failed to create notification buffer for a client

Recommended Action ACTION_SW_KEEP_RUNNING

Error Message MSDP-3-NO_FREE_GROUP: Unable to free group entry for [chars]

Explanation MRIB process unable to delete a route-table entry.

Recommended Action No special action is required.

Error Message MSDP-3-NO_FREE_SOURCE: Unable to free source entry for [chars]

Explanation MRIB process unable to delete a route-table entry.

Recommended Action No special action is required.

Error Message MSDP-3-NO_GROUP: Unable to create group entry for [chars]

Explanation MRIB process unable to create the route entry in its route-table.

Recommended Action No special action is required.

Error Message MSDP-3-NO_MARKER: Unable to find the txlist marker for VRF:[chars] for the client: [chars]

Explanation MRIB failed to find txlist resource.

Recommended Action ACTION_SW_KEEP_RUNNING

Error Message MSDP-3-NO_MPIB_FOR_ROUTE: Unable to creates mpib entry for [chars] for mpib [chars] in VRF [chars]

Explanation MRIB process unable to create the route entry in its route-table.

Recommended Action No special action is required.

Error Message MSDP-3-NO_MPIB: Unable to get mpib index in mrrib_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 MSDP-3-NO_OIFTYPE: Failed to find mrib_oiftype for given iod: [chars]

Explanation MRIB failed find the oif type for given iod found in mroute

Recommended Action ACTION_SW_KEEP_RUNNING

Error Message MSDP-3-NO_SET_PRIORITY: Failed to set policy or priority in [chars]

Explanation MSDP process could not set itself process priority, exiting.

Recommended Action No special action is required.

Error Message MSDP-3-NO_SET_PRIORITY: Failed to set policy or priority

Explanation MRIB process could not set itself process priority, exiting.

Recommended Action No special action is required.

Error Message MSDP-3-NO_SHUTDOWN: Unable to shutdown msdp_main_thread - [chars]

Explanation MSDP process unable to shut itself down.

Recommended Action Dump core, then restart component

Error Message MSDP-3-NO_SOURCE: Unable to create source entry for [chars]

Explanation MRIB process unable to create the route entry in its route-table.

Recommended Action No special action is required.

Error Message MSDP-3-NO_TIMER: Could not create stale timer for "[chars]"

Explanation MRIB process cannot stale the routes for this procotol.

Recommended Action Dump core, then reload the stack

Error Message MSDP-3-OPCODE_REGISTER: [chars] opcode: 0x[hex] ErrorString: [chars]

Explanation Opcode registration failed

Recommended Action No special action is required.

Error Message MSDP-3-PSS: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

Explanation MRIB called a PSS API which returned an error. The error reported should be examined for the cause.

Recommended Action ERRMSG

Error Message MSDP-3-PTHREAD_FAILED: [chars] failed in [chars] for thread [chars]

Explanation MSDP process failed to create a task thread.

Recommended Action Dump core, then restart component

Error Message MSDP-3-PTHREAD_FAILED: pthread_create() failed for mrib_main()

Explanation MRIB process failed to create a task thread.

Recommended Action Dump core, then reload the stack

Error Message MSDP-3-PT_FAILED: [chars] failed in [chars]

Explanation MRIB process failed to update route-table for this event.

Recommended Action Dump core, then reload the stack

Error Message MSDP-3-RDLOCK_ASSERT: [chars]:[dec]: Assert, read-lock not acquired

Explanation Caller Failed to get MRIB Shared Memory read lock

Recommended Action No special action is required.

Error Message MSDP-3-RESTART_REASON: MSDP process has restarted, restart reason: [chars]

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

Recommended Action No special action is required.

Error Message MSDP-3-SDB_CLIENT_ERROR: Failed to initialize shared database client with status [hex] and errmsg: [chars]

Explanation MSDP process could not initialize shared database, client.

Recommended Action No special action is required.

Error Message MSDP-3-SELECT: In [chars], [chars] failed with errmsg: [chars]

Explanation MSDP process failed to select.

Recommended Action No special action is required.

Error Message MSDP-3-SETRLIMIT_FAILED: Data segment allocation of [dec] failed

Explanation MSDP process could not set itself memory resource limit, exiting.

Recommended Action No special action is required.

Error Message MSDP-3-SETSOCKOPT: In [chars], [chars] failed while setting [chars] option with errmsg: [chars]

Explanation MSDP process failed while setting tsp socket options.

Recommended Action No special action is required.

Error Message MSDP-3-SETUPSOCKET_ERROR: In [chars], [chars] failed to create connection with [chars]

Explanation MSDP process failed to select.

Recommended Action No special action is required.

Error Message MSDP-3-SET_SOCKET_OPTIONS: In [chars], [chars] failed for [chars]

Explanation MSDP process failed while setting socket options.

Recommended Action No special action is required.

Error Message MSDP-3-SM_FAILED: [chars] failed in [chars] for segment [chars], errno: [chars]

Explanation MRIB process failed to access the System shared memory resource.

Recommended Action No special action is required.

Error Message MSDP-3-SM_FAILED: [chars] failed in [chars], errno: [chars]

Explanation MSDP process failed to access the System shared memory resource.

Recommended Action No special action is required.

Error Message MSDP-3-SOCKET_BIND: In [chars], [chars] failed with errmsg [chars] for [chars]

Explanation MSDP process failed to bind.

Recommended Action No special action is required.

Error Message MSDP-3-SOCKET_CONNECT: In [chars], [chars] failed to connect [chars] with context name:[chars] and errmsg: [chars]

Explanation MSDP process failed to connect to peer.

Recommended Action No special action is required.

Error Message MSDP-3-SOCKET_ERROR: In [chars], [chars] failed with errmsg: [chars]

Explanation MSDP process failed to create socket.

Recommended Action No special action is required.

Error Message MSDP-3-SYSMGR_DISPATCH: Error returned from sysmgr_dispatch(), errmsg: [chars]

Explanation MSDP called a System Manager API which returned an error.

Recommended Action Dump core, then restart component

Error Message MSDP-3-SYSMGR_DISPATCH: Error returned from sysmgr_dispatch(), errno: [chars]

Explanation MRIB called a System Manager API which returned an error.

Recommended Action Dump core, then restart component

Error Message MSDP-3-SYSMGR_INIT: Error in [chars] while [chars]

Explanation MSDP called a active timer API which returned an error.

Recommended Action Dump core, then restart component

Error Message MSDP-3-TIMER_FAILED: could not [chars]

Explanation MRIB process failed to configure a timer event.

Recommended Action Dump core, then reload the stack

Error Message MSDP-3-TXLIST_CREATE: Couldn't create txlist for [chars] in VRF:[chars]

Explanation MRIB failed to create txlist resource.

Recommended Action ACTION_SW_KEEP_RUNNING

Error Message MSDP-3-TXLIST_CREATE: Couldn't create txlist for [chars] in VRF:[chars]

Explanation MSDP failed to create txlist resource.

Recommended Action Dump core, then restart component

Error Message MSDP-3-UNKNOWN_MTYPE: Unknown mtype: [dec]/[dec] in [chars]

Explanation MSDP process received unknown Interprocess message, dropped.

Recommended Action No special action is required.

Error Message MSDP-3-WRLOCK_ASSERT: [chars]:[dec]: Assert, write-lock not acquired

Explanation Caller Failed to get MRIB Shared Memory write lock

Recommended Action No special action is required.

[MSDP-4](#)

Error Message MSDP-4-URIB_SM_ADDR_RANGE: URIB Shared addr range no valid for mtype:[dec], xid:[dec], cnt:[dec]

Explanation URIB Shared memory address for notification not valid

Recommended Action No special action is required.

MSDP-5

Error Message MSDP-5-API_INIT_SEM_CLEAR: Cleared the API semaphore from [dec]

Explanation The API semaphore was in an unexpected state, and was restored to a correct value.

Recommended Action Keep running, do nothing special

Error Message MSDP-5-PEER_UPDOWN: Session to peer [chars] going [chars]

Explanation MSDP peer is going UP/DOWN.

Recommended Action No special action is required.

Error Message MSDP-5-RES_MGR_CHANGE: Changed m4route-mem from ([dec], [dec]) to ([dec], [dec])

Explanation The requested limit-resource command was adapted to fit the limits in this version.

Recommended Action Keep running, do nothing special

MSDP-6

Error Message MSDP-6-MEMORY_OPTION: memory size must be >= 16MB and <= 2GB

Explanation Invalid memory size specified for MRIB process.

Recommended Action No special action is required.

Error Message MSDP-6-RESTART_SHUTDOWN: MSDP shutting self down via restart command

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

Recommended Action No special action is required.

Error Message MSDP-6-SHUTDOWN_FAILED: Shutting down of MRIB process failed: [chars]

Explanation MRIB process is shutting itself down.

Recommended Action No special action is required.

Error Message MSDP-6-SHUTDOWN: Shutting down MRIB process

Explanation MRIB process is shutting itself down.

Recommended Action No special action is required.

Error Message MSDP-6-SHUTDOWN: Shutting down MSDP - [chars]

Explanation MSDP process is shutting itself down.

Recommended Action No special action is required.

Error Message MSDP-6-UNKNOWN_OPC: Received unknown mts opcode [dec] in [chars]

Explanation MSDP process received unknown Interprocess message, dropped.

Recommended Action No special action is required.

Error Message MSDP-6-USAGE: Usage: mrib [-h] [-d] [-m

Explanation Usage for starting MRIB process.

Recommended Action No special action is required.

MSDP-7

Error Message MSDP-7-OBJSTORE: Objstore API [chars]() failed with error: [dec]

Explanation Objstore API has failed

Recommended Action Keep running, do nothing special

Error Message MSDP-7-OBJSTORE: Objstore API [chars]() failed with error: [dec]

Explanation Objstore API has failed

Recommended Action Keep running, do nothing special

NETSTACK Messages

This section contains the NETSTACK messages.

NETSTACK-2

Error Message NETSTACK-2-ERR_RLIMIT: [chars]

Explanation Rlimit set or get failed

Recommended Action No special action is required.

Error Message NETSTACK-2-NS_TSP_INIT: tsp init failed: [chars]

Explanation TSP Initialization failed

Recommended Action No special action is required.

Error Message NETSTACK-2-SVC_CLEANUP: sysmgr conditional srv cleanup: [chars]

Explanation Service cleanup failed

Recommended Action No special action is required.

Error Message NETSTACK-2-TIMER_INIT: active timer init failed: [chars]

Explanation Timer Initialization failed

Recommended Action No special action is required.

OSPF Messages

This section contains the OSPF messages.

OSPF-1

Error Message OSPF-1-INIT: Unable to [chars] [chars]

Explanation An internal software error occurred.

Recommended Action Restart component

Error Message OSPF-1-LOWMEM: Low memory condition: [chars]

Explanation The router did not have enough memory to store certain data structures.

Recommended Action Out of memory. Add more memory to the router

Error Message OSPF-1-MCASTJOIN: Unable to join [chars] group on interface [chars]

Explanation An internal software error occurred.

Recommended Action Restart component

Error Message OSPF-1-MCASTLEAVE: Unable to leave [chars] group on interface [chars]

Explanation An internal software error occurred.

Recommended Action Restart component

Error Message OSPF-1-MQSEND: Unable to send message [chars] to [chars]

Explanation An internal software error occurred.

Recommended Action Restart component

Error Message OSPF-1-NOMEM: Malloc ([dec] bytes) failed for: [chars]

Explanation The router did not have enough memory to store mentioned data structures.

Recommended Action Out of memory. Add more memory to the router

Error Message OSPF-1-SLABS: Could not create [chars] slabs

Explanation The router did not have enough memory to reserve space in advance for certain slab data structures.

Recommended Action Out of memory. Add more memory to the router

Error Message OSPF-1-STARTTHREAD: Unable to start thread [chars] ([dec]), error [chars]

Explanation An internal software error occurred.

Recommended Action Restart component

Error Message OSPF-1-TAG: Unable to retrieve service tag on [chars] supervisor

Explanation An internal software error occurred.

Recommended Action Restart component

Error Message OSPF-1-TIMER: Unable to create [chars] timer on interface [chars]

Explanation An internal software error occurred.

Recommended Action Restart component

OSPF-2

Error Message OSPF-2-REDIST_VPN: Received VPN routes without extended community for [chars]/[dec]

Explanation An internal error

Recommended Action No special action is required.

OSPF-3

Error Message OSPF-3-BFD_SEND_AUTO_EXPIRY: BFD send auto expiry [chars]

Explanation OSPF could not send BFD auto expiry

Recommended Action No special action is required.

Error Message OSPF-3-CLEAR_OVERLOAD: Clearing overload state for [chars]

Explanation OSPF resets the configuration to sends the LSAs with normal cost

Recommended Action No special action is required.

Error Message OSPF-3-CLI_ALL_CMDS: Timed out waiting for CLI configuration ([chars])

Explanation OSPF timed out waiting for CLI Server to send all OSPF configs

Recommended Action No special action is required.

Error Message OSPF-3-CLI_NON_IF_CMDS: Timed out waiting for router mode CLI configuration ([chars])

Explanation OSPF timed out waiting for CLI Server to send router mode OSPF configs

Recommended Action No special action is required.

Error Message OSPF-3-CMI_ERR: CMI error: [chars].

Explanation CMI returned an error

Recommended Action Keep running, do nothing special

Error Message OSPF-3-CMI_NO_VRF_ERR: CMI error: No [chars] VRF information found

Explanation CMI returned an error

Recommended Action Keep running, do nothing special

Error Message OSPF-3-CTX_IF: Error in subrouter context for interface [chars]: [chars]

Explanation Error related to interface context

Recommended Action No special action is required.

Error Message OSPF-3-CTX: Error in subrouter context [chars]: [chars]

Explanation Error related to multiple subrouters and contexts

Recommended Action No special action is required.

Error Message OSPF-3-HA_AREA: Unable to recreate area [dec]

Explanation OSPF could not do stateful restart

Recommended Action No special action is required.

Error Message OSPF-3-HA_INTF_AREA: Unable to add interface [chars] to area [chars]

Explanation OSPF could not do stateful restart

Recommended Action No special action is required.

Error Message OSPF-3-HA_INTF: Unable to recreate interface [chars]

Explanation OSPF could not do stateful restart

Recommended Action No special action is required.

Error Message OSPF-3-HA_LSDB_AREA: Unable to find LSA area [chars]

Explanation OSPF could not do stateful restart

Recommended Action No special action is required.

Error Message OSPF-3-HA_LSDB_INSTALL: Unable to install LSA [chars], area [chars] [chars]

Explanation OSPF could not do stateful restart

Recommended Action No special action is required.

Error Message OSPF-3-HA_LSDB_LINK: Unable to find link LSA interface/area

Explanation OSPF could not do stateful restart

Recommended Action No special action is required.

Error Message OSPF-3-HA_LSID: Unable to reserve LSID [dec] for [chars] LSA [chars]

Explanation OSPF could not do stateful restart

Recommended Action No special action is required.

Error Message OSPF-3-HA_NBR_INTF: Unable to find interface index [dec] for neighbor [chars]

Explanation OSPF could not do stateful restart

Recommended Action No special action is required.

Error Message OSPF-3-HA_NBR: Unable to recreate neighbor [chars]

Explanation OSPF could not do stateful restart

Recommended Action No special action is required.

Error Message OSPF-3-HA_NO_SR: Unable to find sr [dec]

Explanation OSPF could not do stateful restart

Recommended Action No special action is required.

Error Message OSPF-3-HA_SR: Unable to recreate sr [dec]

Explanation OSPF could not do stateful restart

Recommended Action No special action is required.

Error Message OSPF-3-HEAPSIZE: Error increasing heap size to [dec], error [dec]

Explanation Reduced heap size will limit the LSDB size.

Recommended Action Keep running, do nothing special

Error Message OSPF-3-IF_INVALID: Unable to find interface [chars]

Explanation OSPF could not find an interface

Recommended Action No special action is required.

Error Message OSPF-3-INVALIDKCCRYPTOALGO: Cryptographic algorithm in key ID [dec] of key chain [chars] is not supported by OSPF

Explanation The cryptographic algorithm configured in the key chain is not supported by

OSPF. This may happen because the key chain allows cryptographic algorithms which is not acceptable by OSPF.

Recommended Action Configure a cryptographic algorithm that is supported by OSPF

Error Message OSPF-3-INVALIDKCKEYID: Key ID [dec] in key chain [chars] is invalid

Explanation The Key ID configured in the key chain is out of range for OSPF. This may happen because the key chain allows Key ID values outside of the range which is acceptable for OSPF.

Recommended Action Configure a new security association with a Key ID that is in the range 1-255

Error Message OSPF-3-INVALIDKCMD5KEYSTRING: Key string in key ID [dec] of key chain [chars] is longer than that is supported by MD5 authentication

Explanation The key string configured in the key chain is longer than that is supported by MD5 authentication. This may happen because the key chain allows key strings longer than that is supported by MD5 authentication.

Recommended Action Configure a key string whose length is at most 16

Error Message OSPF-3-INVALIDKCSIMPLEKEYSTRING: Key string in key chain [chars] is longer than that is supported by Simple authentication

Explanation The key string configured in the key chain is longer than that is supported by Simple authentication. This may happen because the key chain allows key strings longer than that is supported by Simple authentication.

Recommended Action Configure a key string whose length is at most 8

Error Message OSPF-3-INVALID_TLV: Found corrupted TLV, LSA [chars]

Explanation Error while parsing TLV.

Recommended Action Keep running, do nothing special

Error Message OSPF-3-ISSD_FAILED_GREATER_THAN_4: Sending ISSD disable signal because of configuration of OSPF instance number [dec] and OSPF process tag [chars]

Explanation ISSD to pre Edinburgh-2 image disabled if instances 5 above are configured

Recommended Action No special action is required.

Error Message OSPF-3-ISSU_GR_DISABLED: Aborting ISSU, GR is disabled in [dec] out of [dec] contexts

Explanation ISSU requires OSPF GR to be enabled for all contexts

Recommended Action No special action is required.

Error Message OSPF-3-ISSU_GR_FAILED: Aborting ISSU, GR failed in [dec] out of [dec] contexts

Explanation ISSU requires successful OSPF GR in all contexts

Recommended Action No special action is required.

Error Message OSPF-3-ISSU_GR_IN_HELPER_MODE: Aborting ISSU, OSPF in GR helper mode in [dec] contexts

Explanation ISSU requires stable OSPF topology in all contexts

Recommended Action No special action is required.

Error Message OSPF-3-ISSU_GR_IN_PROGRESS: Aborting ISSU, GR in progress in [dec] out of [dec] contexts

Explanation ISSU requires stable OSPF topology in all contexts

Recommended Action No special action is required.

Error Message OSPF-3-MAXIFS: Exceeded the limit on interfaces per area [i.e [dec]]

Explanation Restricting the number of interfaces per area to avoid problems during lsa generation.

Recommended Action Reduce the number of interfaces per area.

Error Message OSPF-3-MAXLSAS: 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: Failed to [chars] the MIB with status as [chars]

Explanation Error while loading or unloading the MIB.

Recommended Action Keep running, do nothing special

Error Message OSPF-3-MTS_BIND: Error returned from mts_bind(), errno: [chars]

Explanation OSPF called a MTS API which returned an error.

Recommended Action No special action is required.

Error Message OSPF-3-MTS_DROP: Error returned from mts_drop(), errno: [chars]

Explanation OSPF called a MTS API which returned an error.

Recommended Action No special action is required.

Error Message OSPF-3-MTS_NOTIFY: Error returned from mts_send_notify(), errno: [chars]

Explanation OSPF called a MTS API which returned an error.

Recommended Action No special action is required.

Error Message OSPF-3-MTS_RECV: Error returned from tsp_mts_recv(), errno: [chars]

Explanation OSPF called a MTS API which returned an error.

Recommended Action No special action is required.

Error Message OSPF-3-PSS_AREA: PSS [chars] for area [dec] failed

Explanation OSPF called an PSS API which returned an error.

Recommended Action No special action is required.

Error Message OSPF-3-PSS_GLOBAL: PSS [chars] for global data failed

Explanation OSPF called an PSS API which returned an error.

Recommended Action No special action is required.

Error Message OSPF-3-PSS_INTF: PSS [chars] for interface [chars] failed

Explanation OSPF called an PSS API which returned an error.

Recommended Action No special action is required.

Error Message OSPF-3-PSS_LSDB: PSS [chars] for LSA [chars] failed

Explanation OSPF called an PSS API which returned an error.

Recommended Action No special action is required.

Error Message OSPF-3-PSS_MGET: [chars] for [chars] information failed

Explanation OSPF called an PSS API which returned an error.

Recommended Action No special action is required.

Error Message OSPF-3-PSS_MOVE_TO_LOCATION_OR_KEY: PSS move to [chars] for [chars] information failed

Explanation OSPF called an PSS API which returned an error.

Recommended Action No special action is required.

Error Message OSPF-3-PSS_NBR: PSS [chars] for neighbor [chars] failed

Explanation OSPF called an PSS API which returned an error.

Recommended Action No special action is required.

Error Message OSPF-3-PSS_READ_KEY_OR_VALUE: PSS read [chars] for [chars] information failed

Explanation OSPF called an PSS API which returned an error.

Recommended Action No special action is required.

Error Message OSPF-3-PSS_READ: PSS read for [chars] information failed

Explanation OSPF called an PSS API which returned an error.

Recommended Action No special action is required.

Error Message OSPF-3-PSS_SR: PSS [chars] for sr [dec] failed

Explanation OSPF called an PSS API which returned an error.

Recommended Action No special action is required.

Error Message OSPF-3-ROUTEDEL: Route deletion [chars]/[dec] failed

Explanation Internal Error.

Recommended Action Keep running, do nothing special

Error Message OSPF-3-SET_OVERLOAD: Setting overload state for [chars]

Explanation OSPF sets the configuration to sends the LSAs with max-metric cost

Recommended Action No special action is required.

Error Message OSPF-3-SMALLBUF: [chars] packet doesn't fit in buffer (packet [dec]/ buffer [dec])

Explanation The router has allocated a packet buffer that was too small.

Recommended Action Keep running, do nothing special

Error Message OSPF-3-SNMP_FAIL: Failed to [chars] the SNMP with status as [chars]

Explanation Error while registering or deregistering with SNMP.

Recommended Action Keep running, do nothing special

Error Message OSPF-3-SNMP_SAP_FAIL: Failed to [chars] the SNMP SAP with status as [chars]

Explanation Error while registering or deregistering with SNMP SAP.

Recommended Action Keep running, do nothing special

Error Message OSPF-3-SNMP_TRAP_FAIL: Not sending trap [chars] for [chars] because of trap and version incompatibility

Explanation Error while sending trap notifications to SNMP.

Recommended Action Keep running, do nothing special

Error Message OSPF-3-TLV_INTF: Failed to convert to [chars] for [chars]

Explanation OSPF called an TLV intf which returned an error.

Recommended Action No special action is required.

Error Message OSPF-3-UNAWAKABLE: Trying to awake unawakable thread [chars]

Explanation Thread cannot be wokenup at this time

Recommended Action Keep running, do nothing special

Error Message OSPF-3-UNKNOWN_SIG: Received unknown signal: [dec]

Explanation An unexpected software interrupts was received.

Recommended Action Keep running, do nothing special

[OSPF-4](#)

Error Message OSPF-4-AF_NO_FUNC: Function [chars] not supported by OSPF version [chars]

Explanation Function is not specified for the current address family

Recommended Action Keep running, do nothing special

Error Message OSPF-4-AREA_ERR: Packet from [chars] on [chars] received for wrong area [chars]

Explanation A OSPF packet not belonging to this area was received

Recommended Action No special action is required.

Error Message OSPF-4-AUTH_ERR: Received packet from [chars] on [chars] with bad authentication [hex]

Explanation A OSPF packet with mismatched authentication type was received

Recommended Action No special action is required.

Error Message OSPF-4-CKSM_ERR: Bad OSPF checksum in packet [hex] computed [hex] from [chars] on [chars]

Explanation A OSPF packet with invalid checksum was received

Recommended Action No special action is required.

Error Message OSPF-4-CLEANUP: OSPF is exiting, reason [chars](0x[hex])

Explanation OSPF has been deconfigured or restarted.

Recommended Action No special action is required.

Error Message OSPF-4-DEST_INVALID: Bad destination address [chars]

Explanation A OSPFv3 packet with muticast source address was received

Recommended Action No special action is required.

Error Message OSPF-4-DUPRID: Router [chars] on interface [chars] is using our routerid, packet dropped

Explanation Two routers are configured with the same router ID.

Recommended Action Check all routers on the indicated interface for misconfigurations.

Error Message OSPF-4-IF_ERR: Packet from [chars] received on [chars] interface [chars]

Explanation A OSPF packet not belonging to this interface was received

Recommended Action No special action is required.

Error Message OSPF-4-INVALIDOUT: Trying to send packet with packettype [dec] to [chars] on [chars]

Explanation The router tried to send unknown OSPF packet.

Recommended Action Keep running, do nothing special

Error Message OSPF-4-NEIGH_ERR: Neighbor [chars] not found, packet dropped

Explanation A non-hello OSPF packet with no neighbor was received

Recommended Action No special action is required.

Error Message OSPF-4-OSPF_MAX_LSA_STATE: Max-lsa feature entering into [chars]. [chars] OSPF adjacencies

Explanation Logging the current max-lsa feature state and the effect on OSPF adjacencies

Recommended Action Check if some router in the network is generating large number of LSAs as a result of misconfiguration

Error Message OSPF-4-OSPF_MAX_LSA_THR: Threshold for maximum number ([dec]) of non self-generated LSA has been reached

Explanation Threshold for maximum number of non self-generated LSA has been reached

Recommended Action Check if some router in the network is generating large number of LSAs as a result of misconfiguration

Error Message OSPF-4-OSPF_MAX_LSA: Maximum number of non self-generated LSAs ([dec]) has been exceeded

Explanation Maximum number of non self-generated LSA has been exceeded

Recommended Action Check if some router in the network is generating large number of LSAs as a result of misconfiguration

Error Message OSPF-4-PKTLEN_ERR: Packet received from [chars] on [chars] has length [dec] which is less than [chars] [dec]

Explanation A OSPF packet with invalid length was received

Recommended Action No special action is required.

Error Message OSPF-4-PKTTYPE_ERR: Unknown type [dec] received from [chars] on [chars]

Explanation A OSPF packet with incorrect packet type was received

Recommended Action No special action is required.

Error Message OSPF-4-REDIST_MAX_PFX: Redistribution prefix limit has been reached - [dec] prefixes

Explanation Check if redistribution of large number of prefixes is desired and has not been configured by mistake

Recommended Action No special action is required.

Error Message OSPF-4-REDIST_THR_PFX: Redistribution prefix threshold has been reached - [dec] prefixes

Explanation Check if redistribution of large number of prefixes is desired and has not been configured by mistake

Recommended Action No special action is required.

Error Message OSPF-4-RESTART_SHUTDOWN: OSPF shutting self down via restart command

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

Recommended Action No special action is required.

Error Message OSPF-4-SELF_LSA: context [chars]: [chars]

Explanation Router received an 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.

Recommended Action Verify if the router ID for the router is unique in the network.

Error Message OSPF-4-SOURCE_ERR: Bad source address [chars] - ours on [chars]

Explanation A OSPF packet with our own source address was received

Recommended Action No special action is required.

Error Message OSPF-4-SRC_INVALID: Invalid src address [chars], should not be seen on [chars]

Explanation A OSPF packet packet with source address not on this network was received

Recommended Action No special action is required.

Error Message OSPF-4-SRC_MCAST: Bad source address [chars] - multicast on [chars]

Explanation A OSPFv3 packet with muticast source address was received

Recommended Action No special action is required.

Error Message OSPF-4-VERSION_ERR: Bad ospf version [dec] received from [chars] on [chars]

Explanation A OSPF packet with incorrect version number was received

Recommended Action No special action is required.

Error Message OSPF-4-WRONGQ: Found wrong type of packet ([dec]) on internal [chars] queue

Explanation Did not expect the specified packet type on the given incoming message queue

Recommended Action Keep running, do nothing special

OSPF-5

Error Message OSPF-5-ADJCHANGE: Nbr [chars] on [chars] went [chars]

Explanation An OSPF neighborship has just been established. Or a neighborship has just been shutdown.

Recommended Action No special action is required.

Error Message OSPF-5-BFD_DOWN: BFD state Down for [chars] on [chars] (area [chars]) BFD code [dec]

Explanation OSPF received BFD down notification.

Recommended Action No special action is required.

Error Message OSPF-5-NBRSTATE: Process [chars], Nbr [chars] on [chars] from [chars] to [chars], [chars]

Explanation An OSPF neighbor has just changed state.

Recommended Action No special action is required.

Error Message OSPF-5-NBR_FLOOD_WAR: Process re-originates LSA ID [chars] LSA Type [chars] adv-rtr [chars] in area [chars] for Nbr [chars]

Explanation Repeated Retransmissions of LSU for a given Neighbor.

Recommended Action No special action is required.

OSPF-6

Error Message OSPF-6-DECONFIG_SHUTDOWN: OSPF shutting self down via deconfiguration

Explanation OSPF process is shutting itself down due to the deconfiguration command.

Recommended Action No special action is required.

Error Message OSPF-6-HA_DB_REBUILD: HA run-time database buildup [chars]

Explanation OSPF stateful restart status

Recommended Action No special action is required.

Error Message OSPF-6-HA_STATEFUL: Stateful HA [chars]

Explanation OSPF stateful restart status

Recommended Action No special action is required.

Error Message OSPF-6-INTFID_CHNGD: Router [chars] on interface [chars] is sending OSPFv3 packets from more than one interfaces

Explanation OSPFv3 is enabled on more than one interface having same link-local address.

Recommended Action Check all routers on the indicated interface for misconfigurations.

Error Message OSPF-6-MTS_UNKNOWN_MSG: Received unknown MTS message with opcode [dec], dropping it

Explanation OSPF received an unknown MTS message. The message will be dropped

Recommended Action No special action is required.

Error Message OSPF-6-SHUTDOWN_REQUEST_FAIL: OSPF shutdown request failed, [chars]

Explanation OSPF request to system manager for permission to shutdown was turned down.

Recommended Action No special action is required.

Error Message OSPF-6-START: Starting OSPF [chars], [chars]

Explanation OSPF process is starting due to the specified reason.

Recommended Action No special action is required.

Error Message OSPF-6-UNKNOWN_SHUTDOWN: OSPF shutting self down due to unknown reason

Explanation OSPF process is shutting itself down due to unknown reason.

Recommended Action No special action is required.

PIM6 Messages

This section contains the PIM6 messages.

PIM6-2

Error Message PIM6-2-SHM_LOCK_CREAT: Failed to create shared memory lock: [chars]

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message PIM6-2-STARTUP_DEBUG: [chars] in [chars]

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action No special action is required.

PIM6-3

Error Message PIM6-3-ADD_ROUTE: Couldn't add PIM6 route [chars] in [chars]

Explanation PIM6 failed to update the local route-table entry.

Recommended Action No special action is required.

Error Message PIM6-3-ADD_RP_FAIL: [chars]: [chars] for group [chars]

Explanation PIM6 API for getting RP address failed

Recommended Action No special action is required.

Error Message PIM6-3-API_CLOSE: Couldn't close [chars] API

Explanation PIM6 failed to close API opened with the component.

Recommended Action No special action is required.

Error Message PIM6-3-API_FAILED: [chars] failed in [chars]

Explanation PIM6 process failed in invoking an API.

Recommended Action No special action is required.

Error Message PIM6-3-API_INIT: Couldn't initialize [chars] API

Explanation PIM6 failed to open API to interact with the component.

Recommended Action No special action is required.

Error Message PIM6-3-ATTACH_SHM: Couldn't attach to shm of [chars]

Explanation PIM6 process failed to open a shared memory resource.

Recommended Action Dump core, then restart component

Error Message PIM6-3-AVL_ERROR: AVL-tree operation [chars] failed for [chars]

Explanation PIM6 process failed in an AVL-tree manipulation.

Recommended Action No special action is required.

Error Message PIM6-3-BF_CONVERT: bitfield_convert() failed

Explanation PIM6 failed to convert a compressed bitfield.

Recommended Action Dump core, then restart component

Error Message PIM6-3-BF_CREATE: Couldn't create [chars] bitfield

Explanation PIM6 failed to create bitfield resource.

Recommended Action Dump core, then restart component

Error Message PIM6-3-BF_FAILED: Bitfield API [chars] failed for [chars] bitfield

Explanation PIM6 failed perform bitfield function.

Recommended Action Dump core, then restart component

Error Message PIM6-3-BIND: bind() on [chars] failed: [chars]

Explanation PIM6 failed to bind UDP socket. Auto-RP will not work.

Recommended Action Dump core, then restart component

Error Message PIM6-3-COMP_DEREG: Unable to de-register with [chars]

Explanation PIM6 failed to de-register with a server component.

Recommended Action No special action is required.

Error Message PIM6-3-COMP_REG: Unable to register with [chars]

Explanation PIM6 failed to register with a server component.

Recommended Action Dump core, then restart component

Error Message PIM6-3-CONFHECK: Failed to [chars] Tunnel multicast concheck Capability.
error: [chars]

Explanation Could not add/delete confcheck capability

Recommended Action No special action is required.

Error Message PIM6-3-CREATE_ROUTE: Couldn't create PIM6 route for [chars] in [chars]

Explanation PIM6 failed to update the local route-table entry.

Recommended Action No special action is required.

Error Message PIM6-3-CV_INIT: Couldn't init cond var [chars]

Explanation PIM6 process failed to initialize conditional-variable resource.

Recommended Action Dump core, then restart component

Error Message PIM6-3-DEL_IF: Couldn't delete interface [chars] from PIM6 route [chars] in [chars]

Explanation PIM6 failed to delete the outgoing interface from route-table entry.

Recommended Action No special action is required.

Error Message PIM6-3-DEL_ROUTE: Couldn't delete PIM6 route [chars] in [chars]

Explanation PIM6 failed to delete the local route-table entry.

Recommended Action No special action is required.

Error Message PIM6-3-FREE_ROUTE: Couldn't free PIM6 route [chars] in [chars]

Explanation PIM6 failed to delete the route-table entry.

Recommended Action No special action is required.

Error Message PIM6-3-GET_RP_FAIL: [chars]: [chars] for group [chars]

Explanation PIM6 API for getting RP address failed

Recommended Action No special action is required.

Error Message PIM6-3-HA_FAILURE: [chars]

Explanation PIM6 process failed in a HA operation.

Recommended Action No special action is required.

Error Message PIM6-3-HA_INVALID_MVPN_MDT: Values of mdt pointer invalid in [chars]

Explanation Invalid mdt pointer.

Recommended Action No special action is required.

Error Message PIM6-3-HA_INVALID_POINTER: [chars]: [chars] invalid pointer

Explanation Invalid pointer to invoke HA functions.

Recommended Action No special action is required.

Error Message PIM6-3-HA_KEYTYPE_MISMATCHED: Keytype [dec] mismatched, expected [dec]

Explanation Key type not matching.

Recommended Action No special action is required.

Error Message PIM6-3-HEARTBEAT_TIMER: Unable to create heartbeat timer in [chars]

Explanation Unable to create heartbeat timer

Recommended Action Dump core, then restart component

Error Message PIM6-3-IGMP_DOWN: Couldn't enable PIM6 on [chars], IGMP is not up

Explanation PIM6 is not enabled on the interface, as it requires IGMP to be up.

Recommended Action No special action is required.

Error Message PIM6-3-IM_EXT: Couldn't set IM-extension for interface [chars]

Explanation PIM6 process failed to set IM extension.

Recommended Action Dump core, then restart component

Error Message PIM6-3-INIT_MTS_SAP: mts_bind() failed in pim_init_mts(), errno: [chars]

Explanation Unable to open MTS SAP

Recommended Action Dump core, then restart component

Error Message PIM6-3-INVALID_GROUP: Operation for invalid group [chars] received in [chars]

Explanation PIM6 process received invalid group.

Recommended Action No special action is required.

Error Message PIM6-3-INVALID_MBUF: Received invalid mbuf pointer in [chars]

Explanation PIM6 received invalid data buffer, discarded.

Recommended Action No special action is required.

Error Message PIM6-3-INVALID_PARAM: Invalid parameters passed to [chars]

Explanation Invalid parameters passed to a function

Recommended Action No special action is required.

Error Message PIM6-3-LIB_API_FAILED: [chars] failed in [chars]

Explanation PIM6 client failed in invoking an API.

Recommended Action No special action is required.

Error Message PIM6-3-LIB_BF_CREATE: Couldn't create [chars] bitfield

Explanation PIM6 failed to create bitfield resource.

Recommended Action Dump core, then restart component

Error Message PIM6-3-LIB_INT_ERROR: [chars] in [chars]()

Explanation PIM6 API encountered an error during internal processing

Recommended Action Report the issue to Customer Support

Error Message PIM6-3-LIB_MALLOC: Private mem malloc (%zu) failed in [chars]

Explanation Process is out of free private memory.

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

Error Message PIM6-3-LIB_MTS_SEND: mts_send() failed for [chars], errno: [chars]

Explanation Process called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message PIM6-3-MALLOC: Private mem malloc ([dec]) failed in [chars]

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-MAX_GRANGES: Max Granges allowed to be configured for use shared tree config is [dec]

Explanation Exceeded the group range limit

Recommended Action No special action is required.

Error Message PIM6-3-MAX_ROUTES: Exceeded max allowed routes to be sent to MRIB

Explanation Exceeded max allowed routes to be sent to MRIB

Recommended Action No special action is required.

Error Message PIM6-3-MCEC_MSG: [chars]

Explanation PIM6 VPC related messages

Recommended Action Dump core, then restart component

Error Message PIM6-3-MQCLOSE: Couldn't close [chars] mq: [chars]

Explanation PIM6 failed to close the message-queue resource.

Recommended Action No special action is required.

Error Message PIM6-3-MQFLUSH: Couldn't flush [chars] mq: [chars]

Explanation PIM6 failed to remove stale messages from the message-queue.

Recommended Action No special action is required.

Error Message PIM6-3-MQLOOP_CREATE: Couldn't create [chars] mqloop: [chars]

Explanation PIM6 failed to create the mqloop resource.

Recommended Action Dump core, then restart component

Error Message PIM6-3-MQLOOP_REGHAND: Couldn't register all handlers for [chars] mqloop

Explanation PIM6 failed to initialize handlers the mqloop resource.

Recommended Action Dump core, then restart component

Error Message PIM6-3-MQLOOP_SHUTDOWN: Couldn't shutdown [chars] mqloop

Explanation PIM6 failed to shutdown the mqloop resource.

Recommended Action No special action is required.

Error Message PIM6-3-MQLOOP_START: Couldn't start [chars] mqloop

Explanation PIM6 failed to initialize the mqloop resource.

Recommended Action Dump core, then restart component

Error Message PIM6-3-MQOPEN: Couldn't open [chars] mq: [chars]

Explanation PIM6 failed to open the message-queue resource.

Recommended Action Dump core, then restart component

Error Message PIM6-3-MQSEND: mq_send() error on [chars] queue in [chars]

Explanation PIM6 failed to send an IPC message on the message-queue.

Recommended Action No special action is required.

Error Message PIM6-3-MRIB_ADD_ROUTE: MRIB add route failed in [chars]

Explanation PIM6 failed to add route in MRIB.

Recommended Action No special action is required.

Error Message PIM6-3-MRIB_DEL_ROUTE: MRIB delete route failed in [chars]

Explanation PIM6 failed to delete route in MRIB.

Recommended Action No special action is required.

Error Message PIM6-3-MRIB_NO_SHARED_TREE: MRIB shared tree entry absent for group [chars]/[dec]

Explanation MRIB route unexpectedly absent for a group entry.

Recommended Action No special action is required.

Error Message PIM6-3-MSDP_ORIG_DATASA: Couldn't originate MSDP data SA in [chars]

Explanation PIM6 failed to notify MSDP to originate data SA message.

Recommended Action No special action is required.

Error Message PIM6-3-MTSOPEN: Couldn't bind [chars] mts-q: [chars]

Explanation PIM6 failed to open the MTS-queue resource.

Recommended Action Dump core, then restart component

Error Message PIM6-3-MTS_DROP: Error returned from mts_drop(), errno: [chars]

Explanation PIM6 called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message PIM6-3-MTS_INIT: Could not initialize MTS for [chars]

Explanation Unable to register opcodes

Recommended Action Dump core, then restart component

Error Message PIM6-3-MTS_RECV: Error returned from mts_recv(), errno: [chars]

Explanation PIM6 called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message PIM6-3-MTS_REGISTER: mts_register failed for PIM6: [chars]

Explanation PIM6 was unable to register an MTS notification

Recommended Action No special action is required.

Error Message PIM6-3-MTS_SEND: mts_send() failed for [chars], errno: [chars]

Explanation PIM6 called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message PIM6-3-MTS_UNBIND: mts_unbind() failed in [chars] for queue [chars] with err: [chars]

Explanation Mts_unbind failure

Recommended Action Dump core, then restart component

Error Message PIM6-3-MUTEX_INIT: Couldn't init mutex [chars]

Explanation PIM6 process failed to initialize mutex system resource.

Recommended Action Dump core, then restart component

Error Message PIM6-3-MV_INIT: Couldn't init mutex [chars]

Explanation PIM6 process failed to initialize mutex system resource.

Recommended Action Dump core, then restart component

Error Message PIM6-3-NO_SET_PRIORITY: Failed to set policy or priority

Explanation PIM6 process could not set itself process priority, exiting.

Recommended Action No special action is required.

Error Message PIM6-3-OIM_REGISTER_FAIL: Unable to register with OIM module in [chars]

Explanation MVPN module couldnt register with OIM module

Recommended Action Dump core, then restart component

Error Message PIM6-3-OPCODE_REG: Could not register opcode 0x[hex], reason [chars]

Explanation Unable to register opcodes

Recommended Action Dump core, then restart component

Error Message PIM6-3-PIM_API_NOT_INIT: PIM6 API not initialized

Explanation PIM6 API is not initialized.

Recommended Action No special action is required.

Error Message PIM6-3-PIM_BFD_ADD_FAIL: [chars] request for interface [chars] failed in [chars]

Explanation BFD session add failed

Recommended Action Dump core, then restart component

Error Message PIM6-3-PIM_BFD_API_FAIL: [chars] request failed in [chars]

Explanation BFD API failed

Recommended Action Dump core, then restart component

Error Message PIM6-3-PIM_BFD_REMOVE_FAIL: Session remove request for neighbor [chars] on interface [chars] failed ([chars])

Explanation BFD session add failed

Recommended Action Dump core, then restart component

Error Message PIM6-3-PIM_BFD_SEND_AUTO_EXPIRY: Unable to start BFD staling, error [chars]

Explanation PIM6 BFD staling API failed

Recommended Action Dump core, then restart component

Error Message PIM6-3-PIM_BFD_SES_REMOVE_ALL: Unable to cleanup the BFD sessions during deconfiguration, error [chars]

Explanation Unable to cleanup BFD sessions

Recommended Action Report the issue to Customer Support

Error Message PIM6-3-PIM_CIB: Couldn't find PIM6 VRF for [chars]

Explanation PIM6 failed to obtain its VRF info block.

Recommended Action Dump core, then restart component

Error Message PIM6-3-PIM_EXISTS: PIM6 is already running, process exiting

Explanation Another PIM6 process is already running, this process will shutdown.

Recommended Action No special action is required.

Error Message PIM6-3-PIM_INIT: PIM6 init failed: [chars]

Explanation PIM6 process initialization failed.

Recommended Action Dump core, then restart component

Error Message PIM6-3-PIM_LIB_API_FAILED: [chars] failed in [chars]

Explanation PIM6 client failed in invoking an API.

Recommended Action No special action is required.

Error Message PIM6-3-PIM_LIB_API_INIT: Couldn't initialize [chars] API

Explanation PIM6 failed to open API to interact with the component.

Recommended Action No special action is required.

Error Message PIM6-3-PIM_LIB_MALLOC: Private mem malloc (%zu) failed in [chars]

Explanation Process is out of free private memory.

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

Error Message PIM6-3-PIM_LIB_SM_CLOSE: Couldn't close shm segment [chars]

Explanation PIM6 process failed to remove shared memory resource.

Recommended Action No special action is required.

Error Message PIM6-3-PIM_LIB_SM_OPEN: Couldn't open shm segment [chars] errno: [chars]

Explanation PIM6 process failed to initialize shared memory resource.

Recommended Action Dump core, then restart component

Error Message PIM6-3-POLICY_INVALID_BINDACK: Invalid RPM bind ack in [chars]

Explanation PIM6 received invalid policy response from RPM.

Recommended Action No special action is required.

Error Message PIM6-3-POLICY_INVALID_TYPE: Invalid RPM type [dec] in [chars]

Explanation PIM6 received invalid policy-type from RPM.

Recommended Action No special action is required.

Error Message PIM6-3-PSS_FAILED: PSS operation [chars] failed in [chars]

Explanation PIM6 process failed in a PSS operation.

Recommended Action No special action is required.

Error Message PIM6-3-PTHREAD_CREATE: Couldn't create thread [chars]

Explanation PIM6 process failed to create a task thread.

Recommended Action Dump core, then restart component

Error Message PIM6-3-PTHREAD_FAILED: pthread_create() failed for [chars]

Explanation PIM6 process failed to create a task thread.

Recommended Action Dump core, then reload the stack

Error Message PIM6-3-PT_ADD: Couldn't add [chars] to local PT

Explanation PIM6 failed to update the local route-table entry.

Recommended Action No special action is required.

Error Message PIM6-3-PT_DEL: Couldn't delete [chars] from local PT

Explanation PIM6 failed to delete the local route-table entry.

Recommended Action No special action is required.

Error Message PIM6-3-PURGE_FAIL: Purging of PIM6 cache failed for VRF [chars]

Explanation Unable to purge PIM6 cache

Recommended Action No special action is required.

Error Message PIM6-3-RDLOCK_ASSERT: [chars]:[dec]: Assert, read-lock not acquired

Explanation Caller Failed to get PIM6 Shared Memory read lock

Recommended Action No special action is required.

Error Message PIM6-3-RECOVERY_FAIL: Recovery failed for [chars] DB

Explanation Unable recover a PIM6 database

Recommended Action No special action is required.

Error Message PIM6-3-REMOVE_TXLIST_ELEMENT: Couldn't remove the txlist element for route [chars] in [chars]

Explanation PIM6 failed to remove the txlist element for the route

Recommended Action No special action is required.

Error Message PIM6-3-RESERVE_LIMIT: Exceeded reserve-limit for VRF [chars] - dropping

Explanation Exceeded the reserve-limit for VRF

Recommended Action No special action is required.

Error Message PIM6-3-RESTART_REASON: PIM6 process has restarted, restart reason: [chars]

Explanation PIM6 is restoring the routes it had added in previous instance.

Recommended Action No special action is required.

Error Message PIM6-3-RLIMIT: Couldn't set PIM6 data segment size to [dec]

Explanation PIM6 process could not set itself memory resource limit, exiting.

Recommended Action No special action is required.

Error Message PIM6-3-RP_SECONDARY_NOT_ALLOWED: PIM6 RP Address [chars] cannot be same as

secondary address on interface [chars]

Explanation PIM6 RP Address cannot be same as interface secondary address

Recommended Action No special action is required.

Error Message PIM6-3-SETSOCKOPT: setsockopt() on [chars] failed: [chars]

Explanation PIM6 failed in UDP socket operation. Auto-RP will not work.

Recommended Action Dump core, then restart component

Error Message PIM6-3-SETUP_ROUTE: Couldn't setup PIM6 route [chars] in [chars]

Explanation PIM6 failed to install route in the local route-table.

Recommended Action No special action is required.

Error Message PIM6-3-SG_EXP_TMR_VRFS: "ip pim6 sg-expiry-timer" value in [dec] VRFs not supported in [chars], please reconfigure within range [dec]-[dec]

Explanation Configuration not supported in ISSU target version, please reconfigure

Recommended Action ACTION_SW_NONE

Error Message PIM6-3-SG_EXP_TMR_VRF: "ip pim6 sg-expiry-timer" value in VRF [chars] not supported in [chars], please reconfigure within range [dec]-[dec]

Explanation Configuration not supported in ISSU target version, please reconfigure

Recommended Action ACTION_SW_NONE

Error Message PIM6-3-SHARED_DB_PUB_INIT: Could not do shared database publisher initialization for interfaces rc=0x[hex] [[chars]]

Explanation Unable to do shared db publisher initialization

Recommended Action Dump core, then restart component

Error Message PIM6-3-SHUTDOWN_FM: FM could not shut down PIM6 process

Explanation FM could not shut down PIM6 process

Recommended Action Dump core, then restart component

Error Message PIM6-3-SLAB_ALLOC: Slab alloc of type [chars] failed in [chars]

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: Slab alloc of type [chars] 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-SMALLOC: Shared mem malloc (%zu) failed in [chars]

Explanation PIM6 process is out of free shared memory.

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

Error Message PIM6-3-SM_CREATE: Couldn't create shm segment [chars]

Explanation PIM6 process failed to initialize shared memory resource.

Recommended Action Dump core, then restart component

Error Message PIM6-3-SOCKET: socket() for [chars] failed: [chars]

Explanation PIM6 failed to obtain UDP socket. Auto-RP will not work.

Recommended Action Dump core, then restart component

Error Message PIM6-3-STATE_LIMIT: Exceeded state-limit for VRF [chars] - dropping

Explanation Exceeded the state-limit for VRF

Recommended Action No special action is required.

Error Message PIM6-3-SUBCR_INIT: Could not initialize shared database client for interfaces rc=0x[hex] [[chars]]

Explanation Unable to do subscriber init to access IM shared-dbs

Recommended Action Dump core, then restart component

Error Message PIM6-3-SYSMGR_DISPATCH: Error returned from sysmgr_dispatch(), errno: [chars]

Explanation PIM6 called a System Manager API which returned an error.

Recommended Action Dump core, then restart component

Error Message PIM6-3-THREAD_SHUTDOWN: Couldn't shutdown thread [chars]

Explanation PIM6 failed to shut down a task thread.

Recommended Action No special action is required.

Error Message PIM6-3-TIMER_CREATE: Couldn't create [chars] timer for [chars]

Explanation PIM6 failed to initialize timer resource.

Recommended Action Dump core, then restart component

Error Message PIM6-3-TIMER_SET_INIT: Couldn't init [chars] active timer set

Explanation PIM6 failed to initialize timer resource.

Recommended Action Dump core, then restart component

Error Message PIM6-3-TIMER_START: Couldn't start [chars] timer

Explanation PIM6 failed to initialize timer resource.

Recommended Action Dump core, then restart component

Error Message PIM6-3-TUNNEL_ADD_FAIL: Unable to add tunnel info into the list for vrf [chars] failed in [chars]

Explanation MVPN tunnel setup failed

Recommended Action Dump core, then restart component

Error Message PIM6-3-TUNNEL_ADD_TLV_FAIL: Unable to add tunnel tlv [chars] into the list for vrf [chars]

Explanation MVPN tunnel setup failed

Recommended Action Dump core, then restart component

Error Message PIM6-3-TUNNEL_CREATE_FAIL: Unable to setup tunnel interface for vrf [chars] failed in [chars]

Explanation MVPN tunnel setup failed

Recommended Action Dump core, then restart component

Error Message PIM6-3-TXLIST_CREATE: Couldn't create txlist for [chars]

Explanation PIM6 failed to create txlist resource.

Recommended Action Dump core, then restart component

Error Message PIM6-3-UDP_READ: Error reading UDP socket

Explanation UDP Socket Error

Recommended Action Dump core, then restart component

Error Message PIM6-3-UDP_SENDDTO: udp_sendto() on [chars] failed: [chars]

Explanation PIM6 failed to send over UDP socket.

Recommended Action No special action is required.

Error Message PIM6-3-UNKNOWN_MINOR: Minor type [dec] is unknown, received in [chars]

Explanation PIM6 process received unknown Interprocess message, dropped.

Recommended Action No special action is required.

Error Message PIM6-3-UNKNOWN_MJR: Major type 0x[hex] unknown

Explanation PIM6 process received unknown Interprocess message, dropped.

Recommended Action No special action is required.

Error Message PIM6-3-URIB_CONTEXT: Couldn't get URIB VRF [chars]

Explanation PIM6 failed to obtain unicast routing VRF from URIB.

Recommended Action Dump core, then restart component

Error Message PIM6-3-WRLOCK_ASSERT: [chars]:[dec]: Assert, write-lock not acquired

Explanation Caller Failed to get PIM6 Shared Memory write lock

Recommended Action No special action is required.

PIM6-4

Error Message PIM6-4-DUP_VPC_NBR: Unexpected 2nd vPC peer [chars] detected (peer [chars]) on [chars] (domain [dec] misconfig?)

Explanation Unable to register opcodes

Recommended Action Dump core, then restart component

Error Message PIM6-4-HELLO_INT: Configured PIM6 hello interval [dec]ms on interface [chars] is less than the supported minimum value of [dec]ms, using the minimum value

Explanation PIM6 minimum hello interval.

Recommended Action No special action is required.

PIM6-5

Error Message PIM6-5-DR_CHANGE: DR change from [chars] to [chars] on interface [chars]

Explanation PIM6 Designated router changed on the interface.

Recommended Action No special action is required.

Error Message PIM6-5-NBR_CHANGE: Neighbor [chars] [chars] on interface [chars]

Explanation PIM6 neighbor went up/down due to Hello-message seen/lost.

Recommended Action No special action is required.

Error Message PIM6-5-SSM_RANGE_DELETED: Invalid SSM range configuration for VRF [chars] has been deleted

Explanation Invalid PIM6 SSM Range configuration has been deleted due to failing check

Recommended Action No special action is required.

PIM6-6

Error Message PIM6-6-IF_DEPEND: Removed interface ([chars]) has [chars] dependency

Explanation There is residual configuration on the deleted interface.

Recommended Action No special action is required.

Error Message PIM6-6-MAX_RPS: Cannot store bidir-RP [chars], a maximum of [dec] are supported

Explanation Due to hardware limitations, there is a maximum number of Bidir-PIM6 RPs that can be stored.

Recommended Action No special action is required.

Error Message PIM6-6-MQFLUSHED: Flushing [dec] messages from [chars] mq

Explanation Flushing old residual messages from the message-queue.

Recommended Action No special action is required.

Error Message PIM6-6-MQLOOP_UNKNOWN_MSG: Received unknown message [dec]/[dec]

Explanation PIM6 process received unknown Interprocess message, dropped.

Recommended Action No special action is required.

Error Message PIM6-6-NEGATIVE_PREFIX: Group prefix [chars]/[dec] from RP [chars] 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.

Recommended Action No special action is required.

Error Message PIM6-6-PIM_LIB_API_FAILED_GET_PCIB: [chars] failed in [chars]

Explanation PIM6 client failed in invoking an API.

Recommended Action No special action is required.

Error Message PIM6-6-PIM_LIB_API_FAILED_GET_RP: [chars] failed in [chars]

Explanation PIM6 client failed in invoking an API.

Recommended Action No special action is required.

Error Message PIM6-6-RESERVE_LIMIT_WARNING: Exceeded 80 percent of the reserve-limit for VRF [chars]

Explanation Exceeded 80 percent of the reserve-limit for VRF

Recommended Action No special action is required.

Error Message PIM6-6-RESTART_SHUTDOWN: PIM6 shutting self down via restart command

Explanation PIM6 process is shutting itself down due to the restart command.

Recommended Action No special action is required.

Error Message PIM6-6-ROUTE_LOOKUP: Couldn't find PIM6 route [chars] in [chars]

Explanation PIM6 failed to find entry in the local route-table.

Recommended Action No special action is required.

Error Message PIM6-6-SHM_RESTART_REASON: PIM6 process has restarted, restart reason: [chars]

Explanation PIM6 is restoring the routes it had added in previous instance.

Recommended Action No special action is required.

Error Message PIM6-6-SHUTDOWN_SELF: PIM6 shutting self down

Explanation PIM6 process is shutting itself down.

Recommended Action No special action is required.

Error Message PIM6-6-SHUTDOWN: Shutting down PIM6 process

Explanation PIM6 received a shutdown request.

Recommended Action No special action is required.

Error Message PIM6-6-STATE_LIMIT_WARNING: Exceeded 80 percent of the state-limit for VRF [chars]

Explanation Exceeded 80 percent of the state-limit for VRF

Recommended Action No special action is required.

Error Message PIM6-6-UNKNOWN_OPC: Received unknown mts opcode [dec]

Explanation PIM6 process received unknown Interprocess message, dropped.

Recommended Action No special action is required.

PIM Messages

This section contains the PIM messages.

PIM-2

Error Message PIM-2-SHM_LOCK_CREAT: Failed to create shared memory lock: [chars]

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action Reload the stack

Error Message PIM-2-STARTUP_DEBUG: [chars] in [chars]

Explanation An unrecoverable software error has occurred during AM initialization.

Recommended Action No special action is required.

PIM-3

Error Message PIM-3-ADD_ROUTE: Couldn't add PIM route [chars] in [chars]

Explanation PIM failed to update the local route-table entry.

Recommended Action No special action is required.

Error Message PIM-3-ADD_RP_FAIL: [chars]: [chars] for group [chars]

Explanation PIM API for getting RP address failed

Recommended Action No special action is required.

Error Message PIM-3-API_CLOSE: Couldn't close [chars] API

Explanation PIM failed to close API opened with the component.

Recommended Action No special action is required.

Error Message PIM-3-API_FAILED: [chars] failed in [chars]

Explanation PIM process failed in invoking an API.

Recommended Action No special action is required.

Error Message PIM-3-API_INIT: Couldn't initialize [chars] API

Explanation PIM failed to open API to interact with the component.

Recommended Action No special action is required.

Error Message PIM-3-ATTACH_SHM: Couldn't attach to shm of [chars]

Explanation PIM process failed to open a shared memory resource.

Recommended Action Dump core, then restart component

Error Message PIM-3-AVL_ERROR: AVL-tree operation [chars] failed for [chars]

Explanation PIM process failed in an AVL-tree manipulation.

Recommended Action No special action is required.

Error Message PIM-3-BF_CONVERT: bitfield_convert() failed

Explanation PIM failed to convert a compressed bitfield.

Recommended Action Dump core, then restart component

Error Message PIM-3-BF_CREATE: Couldn't create [chars] bitfield

Explanation PIM failed to create bitfield resource.

Recommended Action Dump core, then restart component

Error Message PIM-3-BF_FAILED: Bitfield API [chars] failed for [chars] bitfield

Explanation PIM failed perform bitfield function.

Recommended Action Dump core, then restart component

Error Message PIM-3-BIND: bind() on [chars] failed: [chars]

Explanation PIM failed to bind UDP socket. Auto-RP will not work.

Recommended Action Dump core, then restart component

Error Message PIM-3-COMP_DEREG: Unable to de-register with [chars]

Explanation PIM failed to de-register with a server component.

Recommended Action No special action is required.

Error Message PIM-3-COMP_REG: Unable to register with [chars]

Explanation PIM failed to register with a server component.

Recommended Action Dump core, then restart component

Error Message PIM-3-CONFCHECK: Failed to [chars] Tunnel multicast concheck Capability. error:
[chars]

Explanation Could not add/delete confcheck capability

Recommended Action No special action is required.

Error Message PIM-3-CREATE_ROUTE: Couldn't create PIM route for [chars] in [chars]

Explanation PIM failed to update the local route-table entry.

Recommended Action No special action is required.

Error Message PIM-3-CV_INIT: Couldn't init cond var [chars]

Explanation PIM process failed to initialize conditional-variable resource.

Recommended Action Dump core, then restart component

Error Message PIM-3-DEL_IF: Couldn't delete interface [chars] from PIM route [chars] in
[chars]

Explanation PIM failed to delete the outgoing interface from route-table entry.

Recommended Action No special action is required.

Error Message PIM-3-DEL_ROUTE: Couldn't delete PIM route [chars] in [chars]

Explanation PIM failed to delete the local route-table entry.

Recommended Action No special action is required.

Error Message PIM-3-FREE_ROUTE: Couldn't free PIM route [chars] in [chars]

Explanation PIM failed to delete the route-table entry.

Recommended Action No special action is required.

Error Message PIM-3-GET_RP_FAIL: [chars]: [chars] for group [chars]

Explanation PIM API for getting RP address failed

Recommended Action No special action is required.

Error Message PIM-3-HA_FAILURE: [chars]

Explanation PIM process failed in a HA operation.

Recommended Action No special action is required.

Error Message PIM-3-HA_INVALID_MVPN_MDT: Values of mdt pointer invalid in [chars]

Explanation Invalid mdt pointer.

Recommended Action No special action is required.

Error Message PIM-3-HA_INVALID_POINTER: [chars]: [chars] invalid pointer

Explanation Invalid pointer to invoke HA functions.

Recommended Action No special action is required.

Error Message PIM-3-HA_KEYTYPE_MISMATCHED: Keytype [dec] mismatched, expected [dec]

Explanation Key type not matching.

Recommended Action No special action is required.

Error Message PIM-3-HEARTBEAT_TIMER: Unable to create heartbeat timer in [chars]

Explanation Unable to create heartbeat timer

Recommended Action Dump core, then restart component

Error Message PIM-3-IGMP_DOWN: Couldn't enable PIM on [chars], IGMP is not up

Explanation PIM is not enabled on the interface, as it requires IGMP to be up.

Recommended Action No special action is required.

Error Message PIM-3-IM_EXT: Couldn't set IM-extension for interface [chars]

Explanation PIM process failed to set IM extension.

Recommended Action Dump core, then restart component

Error Message PIM-3-INIT_MTS_SAP: mts_bind() failed in pim_init_mts(), errno: [chars]

Explanation Unable to open MTS SAP

Recommended Action Dump core, then restart component

Error Message PIM-3-INVALID_GROUP: Operation for invalid group [chars] received in [chars]

Explanation PIM process received invalid group.

Recommended Action No special action is required.

Error Message PIM-3-INVALID_PARAM: Invalid parameters passed to [chars]

Explanation Invalid parameters passed to a function

Recommended Action No special action is required.

Error Message PIM-3-LIB_API_FAILED: [chars] failed in [chars]

Explanation PIM client failed in invoking an API.

Recommended Action No special action is required.

Error Message PIM-3-LIB_BF_CREATE: Couldn't create [chars] bitfield

Explanation PIM failed to create bitfield resource.

Recommended Action Dump core, then restart component

Error Message PIM-3-LIB_INT_ERROR: [chars] in [chars]()

Explanation PIM API encountered an error during internal processing

Recommended Action Report the issue to Customer Support

Error Message PIM-3-LIB_MALLOC: Private mem malloc (%zu) failed in [chars]

Explanation Process is out of free private memory.

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

Error Message PIM-3-LIB_MTS_SEND: mts_send() failed for [chars], errno: [chars]

Explanation Process called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message PIM-3-MALLOC: Private mem malloc ([dec]) failed in [chars]

Explanation PIM process is out of free private memory.

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

Error Message PIM-3-MAX_GRANGES: Max Granges allowed to be configured for use shared tree config is [dec]

Explanation Exceeded the group range limit

Recommended Action No special action is required.

Error Message PIM-3-MAX_ROUTES: Exceeded max allowed routes to be sent to MRIB

Explanation Exceeded max allowed routes to be sent to MRIB

Recommended Action No special action is required.

Error Message PIM-3-MCEC_MSG: [chars]

Explanation PIM VPC related messages

Recommended Action Dump core, then restart component

Error Message PIM-3-MQCLOSE: Couldn't close [chars] mq: [chars]

Explanation PIM failed to close the message-queue resource.

Recommended Action No special action is required.

Error Message PIM-3-MQFLUSH: Couldn't flush [chars] mq: [chars]

Explanation PIM failed to remove stale messages from the message-queue.

Recommended Action No special action is required.

Error Message PIM-3-MQLOOP_CREATE: Couldn't create [chars] mqloop: [chars]

Explanation PIM failed to create the mqloop resource.

Recommended Action Dump core, then restart component

Error Message PIM-3-MQLOOP_REGHAND: Couldn't register all handlers for [chars] mqloop

Explanation PIM failed to initialize handlers the mqloop resource.

Recommended Action Dump core, then restart component

Error Message PIM-3-MQLOOP_SHUTDOWN: Couldn't shutdown [chars] mqloop

Explanation PIM failed to shutdown the mqloop resource.

Recommended Action No special action is required.

Error Message PIM-3-MQLOOP_START: Couldn't start [chars] mqloop

Explanation PIM failed to initialize the mqloop resource.

Recommended Action Dump core, then restart component

Error Message PIM-3-MQOPEN: Couldn't open [chars] mq: [chars]

Explanation PIM failed to open the message-queue resource.

Recommended Action Dump core, then restart component

Error Message PIM-3-MQSEND: mq_send() error on [chars] queue in [chars]

Explanation PIM failed to send an IPC message on the message-queue.

Recommended Action No special action is required.

Error Message PIM-3-MRIB_ADD_ROUTE: MRIB add route failed in [chars]

Explanation PIM failed to add route in MRIB.

Recommended Action No special action is required.

Error Message PIM-3-MRIB_DEL_ROUTE: MRIB delete route failed in [chars]

Explanation PIM failed to delete route in MRIB.

Recommended Action No special action is required.

Error Message PIM-3-MRIB_NO_SHARED_TREE: MRIB shared tree entry absent for group [chars]/[dec]

Explanation MRIB route unexpectedly absent for a group entry.

Recommended Action No special action is required.

Error Message PIM-3-MSDP_ORIG_DATASA: Couldn't originate MSDP data SA in [chars]

Explanation PIM failed to notify MSDP to originate data SA message.

Recommended Action No special action is required.

Error Message PIM-3-MTSOPEN: Couldn't bind [chars] mts-q: [chars]

Explanation PIM failed to open the MTS-queue resource.

Recommended Action Dump core, then restart component

Error Message PIM-3-MTS_DROP: Error returned from mts_drop(), errno: [chars]

Explanation PIM called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message PIM-3-MTS_INIT: Could not initialize MTS for [chars]

Explanation Unable to register opcodes

Recommended Action Dump core, then restart component

Error Message PIM-3-MTS_RECV: Error returned from mts_recv(), errno: [chars]

Explanation PIM called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message PIM-3-MTS_REGISTER: mts_register failed for PIM: [chars]

Explanation PIM was unable to register an MTS notification

Recommended Action No special action is required.

Error Message PIM-3-MTS_SEND: mts_send() failed for [chars], errno: [chars]

Explanation PIM called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message PIM-3-MTS_UNBIND: mts_unbind() failed in [chars] for queue [chars] with err: [chars]

Explanation Mts_unbind failure

Recommended Action Dump core, then restart component

Error Message PIM-3-MUTEX_INIT: Couldn't init mutex [chars]

Explanation PIM process failed to initialize mutex system resource.

Recommended Action Dump core, then restart component

Error Message PIM-3-MV_INIT: Couldn't init mutex [chars]

Explanation PIM process failed to initialize mutex system resource.

Recommended Action Dump core, then restart component

Error Message PIM-3-NO_SET_PRIORITY: Failed to set policy or priority

Explanation PIM process could not set itself process priority, exiting.

Recommended Action No special action is required.

Error Message PIM-3-OIM_REGISTER_FAIL: Unable to register with OIM module in [chars]

Explanation MVPN module couldnt register with OIM module

Recommended Action Dump core, then restart component

Error Message PIM-3-OPCODE_REG: Could not register opcode 0x[hex], reason [chars]

Explanation Unable to register opcodes

Recommended Action Dump core, then restart component

Error Message PIM-3-PIM_API_NOT_INIT: PIM API not initialized

Explanation PIM API is not initialized.

Recommended Action No special action is required.

Error Message PIM-3-PIM_BFD_ADD_FAIL: [chars] request for interface [chars] failed in [chars]

Explanation BFD session add failed

Recommended Action Dump core, then restart component

Error Message PIM-3-PIM_BFD_API_FAIL: [chars] request failed in [chars]

Explanation BFD API failed

Recommended Action Dump core, then restart component

Error Message PIM-3-PIM_BFD_REMOVE_FAIL: Session remove request for neighbor [chars] on interface [chars] failed ([chars])

Explanation BFD session add failed

Recommended Action Dump core, then restart component

Error Message PIM-3-PIM_BFD_SEND_AUTO_EXPIRY: Unable to start BFD staling, error [chars]

Explanation PIM BFD staling API failed

Recommended Action Dump core, then restart component

Error Message PIM-3-PIM_BFD_SES_REMOVE_ALL: Unable to cleanup the BFD sessions during deconfiguration, error [chars]

Explanation Unable to cleanup BFD sessions

Recommended Action Report the issue to Customer Support

Error Message PIM-3-PIM_CIB: Couldn't find PIM VRF for [chars]

Explanation PIM failed to obtain its VRF info block.

Recommended Action Dump core, then restart component

Error Message PIM-3-PIM_EXISTS: PIM is already running, process exiting

Explanation Another PIM process is already running, this process will shutdown.

Recommended Action No special action is required.

Error Message PIM-3-PIM_INIT: PIM init failed: [chars]

Explanation PIM process initialization failed.

Recommended Action Dump core, then restart component

Error Message PIM-3-PIM_LIB_API_FAILED: [chars] failed in [chars]

Explanation PIM client failed in invoking an API.

Recommended Action No special action is required.

Error Message PIM-3-PIM_LIB_API_INIT: Couldn't initialize [chars] API

Explanation PIM failed to open API to interact with the component.

Recommended Action No special action is required.

Error Message PIM-3-PIM_LIB_MALLOC: Private mem malloc ([dec]) failed in [chars]

Explanation Process is out of free private memory.

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

Error Message PIM-3-PIM_LIB_SM_CLOSE: Couldn't close shm segment [chars]

Explanation PIM process failed to remove shared memory resource.

Recommended Action No special action is required.

Error Message PIM-3-PIM_LIB_SM_OPEN: Couldn't open shm segment [chars] errno: [chars]

Explanation PIM process failed to initialize shared memory resource.

Recommended Action Dump core, then restart component

Error Message PIM-3-POLICY_INVALID_BINDACK: Invalid RPM bind ack in [chars]

Explanation PIM received invalid policy response from RPM.

Recommended Action No special action is required.

Error Message PIM-3-POLICY_INVALID_TYPE: Invalid RPM type [dec] in [chars]

Explanation PIM received invalid policy-type from RPM.

Recommended Action No special action is required.

Error Message PIM-3-PSS_FAILED: PSS operation [chars] failed in [chars]

Explanation PIM process failed in a PSS operation.

Recommended Action No special action is required.

Error Message PIM-3-PTHREAD_CREATE: Couldn't create thread [chars]

Explanation PIM process failed to create a task thread.

Recommended Action Dump core, then restart component

Error Message PIM-3-PTHREAD_FAILED: pthread_create() failed for [chars]

Explanation PIM process failed to create a task thread.

Recommended Action Dump core, then reload the stack

Error Message PIM-3-PT_ADD: Couldn't add [chars] to local PT

Explanation PIM failed to update the local route-table entry.

Recommended Action No special action is required.

Error Message PIM-3-PT_DEL: Couldn't delete [chars] from local PT

Explanation PIM failed to delete the local route-table entry.

Recommended Action No special action is required.

Error Message PIM-3-PURGE_FAIL: Purging of PIM cache failed for VRF [chars]

Explanation Unable to purge PIM cache

Recommended Action No special action is required.

Error Message PIM-3-RDLOCK_ASSERT: [chars]:[dec]: Assert, read-lock not acquired

Explanation Caller Failed to get PIM Shared Memory read lock

Recommended Action No special action is required.

Error Message PIM-3-RECOVERY_FAIL: Recovery failed for [chars] DB

Explanation Unable recover a PIM database

Recommended Action No special action is required.

Error Message PIM-3-REMOVE_TXLIST_ELEMENT: Couldn't remove the txlist element for route [chars] in [chars]

Explanation PIM failed to remove the txlist element for the route

Recommended Action No special action is required.

Error Message PIM-3-RESERVE_LIMIT: Exceeded reserve-limit for VRF [chars] - dropping

Explanation Exceeded the reserve-limit for VRF

Recommended Action No special action is required.

Error Message PIM-3-RESTART_REASON: PIM process has restarted, restart reason: [chars]

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

Recommended Action No special action is required.

Error Message PIM-3-RLIMIT: Couldn't set PIM data segment size to [dec]

Explanation PIM process could not set itself memory resource limit, exiting.

Recommended Action No special action is required.

Error Message PIM-3-RP_SECONDARY_NOT_ALLOWED: PIM RP Address [chars] cannot be same as

secondary address on interface [chars]

Explanation PIM RP Address cannot be same as interface secondary address

Recommended Action No special action is required.

Error Message PIM-3-SETSOCKOPT: setsockopt() on [chars] failed: [chars]

Explanation PIM failed in UDP socket operation. Auto-RP will not work.

Recommended Action Dump core, then restart component

Error Message PIM-3-SETUP_ROUTE: Couldn't setup PIM route [chars] in [chars]

Explanation PIM failed to install route in the local route-table.

Recommended Action No special action is required.

Error Message PIM-3-SG_EXP_TMR_VRFs: "ip pim sg-expiry-timer" value in [dec] VRFs not supported in [chars], please reconfigure within range [dec]-[dec]

Explanation Configuration not supported in ISSU target version, please reconfigure

Recommended Action ACTION_SW_NONE

Error Message PIM-3-SG_EXP_TMR_VRF: "ip pim sg-expiry-timer" value in VRF [chars] not supported in [chars], please reconfigure within range [dec]-[dec]

Explanation Configuration not supported in ISSU target version, please reconfigure

Recommended Action ACTION_SW_NONE

Error Message PIM-3-SHARED_DB_PUB_INIT: Could not do shared database publisher initialization for interfaces rc=0x[hex] [[chars]]

Explanation Unable to do shared db publisher initialization

Recommended Action Dump core, then restart component

Error Message PIM-3-SHUTDOWN_FM: FM could not shut down PIM process

Explanation FM could not shut down PIM process

Recommended Action Dump core, then restart component

Error Message PIM-3-SLAB_ALLOC: Slab alloc of type [chars] failed in [chars]

Explanation PIM process failed to allocate Slab memory.

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

Error Message PIM-3-SLAB_CREATE: Slab alloc of type [chars] failed

Explanation PIM process failed to allocate Slab memory.

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

Error Message PIM-3-SMALLOC: Shared mem malloc ([dec]) failed in [chars]

Explanation PIM process is out of free shared memory.

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

Error Message PIM-3-SM_CREATE: Couldn't create shm segment [chars]

Explanation PIM process failed to initialize shared memory resource.

Recommended Action Dump core, then restart component

Error Message PIM-3-SOCKET: socket() for [chars] failed: [chars]

Explanation PIM failed to obtain UDP socket. Auto-RP will not work.

Recommended Action Dump core, then restart component

Error Message PIM-3-STATE_LIMIT: Exceeded state-limit for VRF [chars] - dropping

Explanation Exceeded the state-limit for VRF

Recommended Action No special action is required.

Error Message PIM-3-SUBCR_INIT: Could not initialize shared database client for interfaces rc=0x[hex] [[chars]]

Explanation Unable to do subscriber init to access IM shared-dbs

Recommended Action Dump core, then restart component

Error Message PIM-3-SYSMGR_DISPATCH: Error returned from sysmgr_dispatch(), errno: [chars]

Explanation PIM called a System Manager API which returned an error.

Recommended Action Dump core, then restart component

Error Message PIM-3-THREAD_SHUTDOWN: Couldn't shutdown thread [chars]

Explanation PIM failed to shut down a task thread.

Recommended Action No special action is required.

Error Message PIM-3-TIMER_CREATE: Couldn't create [chars] timer for [chars]

Explanation PIM failed to initialize timer resource.

Recommended Action Dump core, then restart component

Error Message PIM-3-TIMER_SET_INIT: Couldn't init [chars] active timer set

Explanation PIM failed to initialize timer resource.

Recommended Action Dump core, then restart component

Error Message PIM-3-TIMER_START: Couldn't start [chars] timer

Explanation PIM failed to initialize timer resource.

Recommended Action Dump core, then restart component

Error Message PIM-3-TUNNEL_ADD_FAIL: Unable to add tunnel info into the list for vrf [chars] failed in [chars]

Explanation MVPN tunnel setup failed

Recommended Action Dump core, then restart component

Error Message PIM-3-TUNNEL_ADD_TLV_FAIL: Unable to add tunnel tlv [chars] into the list for vrf [chars]

Explanation MVPN tunnel setup failed

Recommended Action Dump core, then restart component

Error Message PIM-3-TUNNEL_CREATE_FAIL: Unable to setup tunnel interface for vrf [chars] failed in [chars]

Explanation MVPN tunnel setup failed

Recommended Action Dump core, then restart component

Error Message PIM-3-TXLIST_CREATE: Couldn't create txlist for [chars]

Explanation PIM failed to create txlist resource.

Recommended Action Dump core, then restart component

Error Message PIM-3-UDP_READ: Error reading UDP socket

Explanation UDP Socket Error

Recommended Action Dump core, then restart component

Error Message PIM-3-UDP_SENDTO: udp_sendto() on [chars] failed: [chars]

Explanation PIM failed to send over UDP socket.

Recommended Action No special action is required.

Error Message PIM-3-UNKNOWN_MINOR: Minor type [dec] is unknown, received in [chars]

Explanation PIM process received unknown Interprocess message, dropped.

Recommended Action No special action is required.

Error Message PIM-3-UNKNOWN_MJR: Major type 0x[hex] unknown

Explanation PIM process received unknown Interprocess message, dropped.

Recommended Action No special action is required.

Error Message PIM-3-URIB_CONTEXT: Couldn't get URIB VRF [chars]

Explanation PIM failed to obtain unicast routing VRF from URIB.

Recommended Action Dump core, then restart component

Error Message PIM-3-WRLOCK_ASSERT: [chars]:[dec]: Assert, write-lock not acquired

Explanation Caller Failed to get PIM Shared Memory write lock

Recommended Action No special action is required.

PIM-4

Error Message PIM-4-DUP_VPC_NBR: Unexpected 2nd vPC peer [chars] detected (peer [chars]) on [chars] (domain [dec] misconfig?)

Explanation Unable to register opcodes

Recommended Action Dump core, then restart component

Error Message PIM-4-HELLO_INT: Configured PIM hello interval [dec]ms on interface [chars] is less than the supported minimum value of [dec]ms, using the minimum value

Explanation PIM minimum hello interval.

Recommended Action No special action is required.

PIM-5

Error Message PIM-5-DR_CHANGE: DR change from [chars] to [chars] on interface [chars]

Explanation PIM Designated router changed on the interface.

Recommended Action No special action is required.

Error Message PIM-5-NBR_CHANGE: Neighbor [chars] [chars] on interface [chars]

Explanation PIM neighbor went up/down due to Hello-message seen/lost.

Recommended Action No special action is required.

Error Message PIM-5-SSM_RANGE_DELETED: Invalid SSM range configuration for VRF [chars] has been deleted

Explanation Invalid PIM SSM Range configuration has been deleted due to failing check

Recommended Action No special action is required.

PIM-6

Error Message PIM-6-IF_DEPEND: Removed interface ([chars]) has [chars] dependency

Explanation There is residual configuration on the deleted interface.

Recommended Action No special action is required.

Error Message PIM-6-MAX_RPS: Cannot store bidir-RP [chars], a maximum of [dec] are supported

Explanation Due to hardware limitations, there is a maximum number of Bidir-PIM RPs that can be stored.

Recommended Action No special action is required.

Error Message PIM-6-MQFLUSHED: Flushing [dec] messages from [chars] mq

Explanation Flushing old residual messages from the message-queue.

Recommended Action No special action is required.

Error Message PIM-6-MQLOOP_UNKNOWN_MSG: Received unknown message [dec]/[dec]

Explanation PIM process received unknown Interprocess message, dropped.

Recommended Action No special action is required.

Error Message PIM-6-NEGATIVE_PREFIX: Group prefix [chars]/[dec] from RP [chars] 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.

Recommended Action No special action is required.

Error Message PIM-6-PIM_LIB_API_FAILED_GET_PCIB: [chars] failed in [chars]

Explanation PIM client failed in invoking an API.

Recommended Action No special action is required.

Error Message PIM-6-PIM_LIB_API_FAILED_GET_RP: [chars] failed in [chars]

Explanation PIM client failed in invoking an API.

Recommended Action No special action is required.

Error Message PIM-6-RESERVE_LIMIT_WARNING: Exceeded 80 percent of the reserve-limit for VRF [chars]

Explanation Exceeded 80 percent of the reserve-limit for VRF

Recommended Action No special action is required.

Error Message PIM-6-RESTART_SHUTDOWN: PIM shutting self down via restart command

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

Recommended Action No special action is required.

Error Message PIM-6-ROUTE_LOOKUP: Couldn't find PIM route [chars] in [chars]

Explanation PIM failed to find entry in the local route-table.

Recommended Action No special action is required.

Error Message PIM-6-SHM_RESTART_REASON: PIM process has restarted, restart reason: [chars]

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

Recommended Action No special action is required.

Error Message PIM-6-SHUTDOWN_SELF: PIM shutting self down

Explanation PIM process is shutting itself down.

Recommended Action No special action is required.

Error Message PIM-6-SHUTDOWN: Shutting down PIM process

Explanation PIM received a shutdown request.

Recommended Action No special action is required.

Error Message PIM-6-STATE_LIMIT_WARNING: Exceeded 80 percent of the state-limit for VRF [chars]

Explanation Exceeded 80 percent of the state-limit for VRF

Recommended Action No special action is required.

Error Message PIM-6-UNKNOWN_OPC: Received unknown mts opcode [dec]

Explanation PIM process received unknown Interprocess message, dropped.

Recommended Action No special action is required.

PM Messages

This section contains the PM messages.

PM-2

Error Message PM-2-PTP_INIT_FAILURE: [chars]:[chars]

Explanation PM ptp initialization has failed

Recommended Action No special action is required.

Error Message PM-2-STARTUP_FAILURE: Failed to [chars] during startup. error [dec]

Explanation A Critical operation has failed during startup of the PM process

Recommended Action No special action is required.

PM-3

Error Message PM-3-API_FAILED: External API failed ([chars])

Explanation External API failed

Recommended Action Report the issue to Customer Support

Error Message PM-3-ARG_ERR: Argument error ([chars]): [chars]

Explanation An argument to a PM call is invalid

Recommended Action Report the issue to Customer Support

Error Message PM-3-CLNT_FAILURE: Failed to [chars] from client

Explanation A PM client operation has failed

Recommended Action Report the issue to Customer Support

Error Message PM-3-CPI_ERR: [chars]

Explanation A failure occurred in the communication with the CPI

Recommended Action Report the issue to Customer Support

Error Message PM-3-DUP_REG_ERR: [chars] is already registered with PM

Explanation A PM client tried to register more than once with PM

Recommended Action Report the issue to Customer Support

Error Message PM-3-ERROR: Failed to [chars]

Explanation A Critical operation has failed in the PM process

Recommended Action Report the issue to Customer Support

Error Message PM-3-ETH_STUB_ERR: [chars]

Explanation A failure occurred in the ethernet stub module

Recommended Action Report the issue to Customer Support

Error Message PM-3-HA_UPDATE: HA update failed ([dec])

Explanation HA update failed

Recommended Action Report the issue to Customer Support

Error Message PM-3-IF_INDEX: Invalid interface index received from [dec]

Explanation Invalid interface index received

Recommended Action Report the issue to Customer Support

Error Message PM-3-INTERNAL_ERROR: [chars]

Explanation An internal error has occurred in the PM process

Recommended Action Report the issue to Customer Support

Error Message PM-3-IPC_ERR: [chars]

Explanation A failure occurred while communicating with another process

Recommended Action Report the issue to Customer Support

Error Message PM-3-MQ_SEND: Failed to send message [chars] (err: [chars])

Explanation A message queue send operation failed

Recommended Action Report the issue to Customer Support

Error Message PM-3-MSG_TO_TLV: TLV Conversion failed ([dec])

Explanation TLV conversion failed

Recommended Action Report the issue to Customer Support

Error Message PM-3-MTS_DROP: [chars]:Error returned from mts_drop(), errno: [chars] opcode [dec]

Explanation PM called a MTS API which returned an error.

Recommended Action No special action is required.

Error Message PM-3-MTS_RECV: Error returned from mts_recv(), errno: [chars]

Explanation PM called a MTS API which returned an error.

Recommended Action No special action is required.

Error Message PM-3-MTS_SEND: Failed to send message [chars] (err: [chars])

Explanation PM called a MTS API which returned an error.

Recommended Action No special action is required.

Error Message PM-3-NO_MBUF: Failed to allocate mbuf [chars]

Explanation The PM process has run out of network buffers

Recommended Action Report the issue to Customer Support

Error Message PM-3-NO_MEM: Failed to allocate private memory for [chars]

Explanation The PM process has run out of private memory

Recommended Action Report the issue to Customer Support

Error Message PM-3-PSS_API_INIT: Ksink pss API init failed ([dec])

Explanation Ksink pss API init failed

Recommended Action Report the issue to Customer Support

Error Message PM-3-PSS_REGISTER: PSS register failed ([dec])

Explanation PSS register failed

Recommended Action Report the issue to Customer Support

Error Message PM-3-RP2RP_ERR: [chars]

Explanation A failure occurred in the communication with the other RP

Recommended Action Report the issue to Customer Support

Error Message PM-3-THR_CREATE: Failed to create [chars] thread. error [dec]

Explanation A failure occurred while creating a thread

Recommended Action Report the issue to Customer Support

Error Message PM-3-TLV_TO_STRUCT: TLV to Struct Conversion failed ([dec])

Explanation TLV to Struct conversion failed

Recommended Action Report the issue to Customer Support

Error Message PM-3-UNK_MSG_MAJOR: Unrecognized message from [chars]. Major type [dec]

Explanation An unknown message (major) was received from another process

Recommended Action Report the issue to Customer Support

Error Message PM-3-UNK_MSG_MINOR: Unrecognized message from [chars]. Minor type [dec]

Explanation An unknown message (minor) was received from another process

Recommended Action Report the issue to Customer Support

Error Message PM-3-UNK_MSG: Unrecognized message in [chars] thread. major type [dec], minor type [dec]

Explanation An unknown message was received from another process

Recommended Action Report the issue to Customer Support

PM-5

Error Message PM-5-NOTICE: [chars]

Explanation An unexpected event has occurred

Recommended Action No special action is required.

PM-6

Error Message PM-6-CLIENT_GET: HA client filter recovery failed ([dec])

Explanation HA client filter recovery failed

Recommended Action Report the issue to Customer Support

Error Message PM-6-IF_INIT: Interface [chars] has been initialised

Explanation An interface has been initialised

Recommended Action No special action is required.

Error Message PM-6-IF_MEMB_GET: HA if-membership recovery failed ([dec])

Explanation HA if-membership recovery failed

Recommended Action Report the issue to Customer Support

Error Message PM-6-MSG: [chars]

Explanation A generic message to the user

Recommended Action No special action is required.

Error Message PM-6-MTS_UNKNOWN_MSG: Received unknown MTS message with opcode [dec], dropping it

Explanation PM recieved an unknown message. The message is dropped

Recommended Action No special action is required.

Error Message PM-6-VDC_MEMB_GET: HA vdc-membership recovery failed ([dec])

Explanation HA vdc-membership recovery failed

Recommended Action Report the issue to Customer Support

RIP Messages

This section contains the RIP messages.

RIP-2

Error Message RIP-2-STARTUP_DEBUG: [chars]

Explanation A startup debug of rip process RIP process

Recommended Action No special action is required.

Error Message RIP-2-STARTUP_FAILURE: Failed to [chars] during startup

Explanation A Critical operation has failed during startup of the RIP process

Recommended Action No special action is required.

RIP-3

Error Message RIP-3-AUTH_SEND_FAILURE: [chars] [chars]

Explanation The RIP process failed to send a message to a neighbor

Recommended Action Report the issue to Customer Support

Error Message RIP-3-FAILURE: Failed to [chars]

Explanation A Critical operation has failed in the RIP process

Recommended Action Report the issue to Customer Support

Error Message RIP-3-GENERIC: [chars]

Explanation An error occurred

Recommended Action Report the issue to Customer Support

Error Message RIP-3-IM_DEL: IOD in IM delete message for [chars] ([dec]) mismatches with RIP interface [hex] (iod [dec])

Explanation There is a mismatch of interface IODs in IM and RIP

Recommended Action Report the issue to Customer Support

Error Message RIP-3-INTERNAL_ERROR: [chars]

Explanation An internal error has occurred in the RIP process

Recommended Action Report the issue to Customer Support

Error Message RIP-3-MQ_RCVD: [chars] thread - message queue receive failure ([dec])

Explanation An error occurred while trying to receive a message from another process

Recommended Action Report the issue to Customer Support

Error Message RIP-3-MTS_DROP: Error returned from mts_drop(), errno: [chars]

Explanation RIP called a MTS API which returned an error.

Recommended Action No special action is required.

Error Message RIP-3-MTS_RECV: Error returned from mts_recv(), errno: [chars]

Explanation RIP called a MTS API which returned an error.

Recommended Action No special action is required.

Error Message RIP-3-POLICY_ERROR: [chars]

Explanation An error has occurred when processing policies

Recommended Action Report the issue to Customer Support

Error Message RIP-3-PROCESS_STOP: Process shutting down: [chars]

Explanation RIP called a sysmgr API which returned an error.

Recommended Action No special action is required.

Error Message RIP-3-SEND_FAILURE: Failed to send message. [chars]

Explanation The RIP process failed to send a message to a neighbor

Recommended Action Report the issue to Customer Support

Error Message RIP-3-SYSMGR_CLEANUP: Error returned from
sysmgrcb_conditional_srv_cleanup_status(): [dec]

Explanation RIP called a sysmgr API which returned an error.

Recommended Action No special action is required.

Error Message RIP-3-UNK_MSG_MAJOR: [chars] thread - Unrecognized message major type [dec]

Explanation An unknown message was received from another process

Recommended Action Report the issue to Customer Support

Error Message RIP-3-UNK_MSG_MINOR: [chars] thread - Unrecognized message minor type [dec]

Explanation An unknown message (minor) was received from another process

Recommended Action Report the issue to Customer Support

RIP-4

Error Message RIP-4-IF_DOWN_OVERLOAD: Interface [chars] brought down due to overload
condition for [chars] af

Explanation The interface has been brought down due to an overload condition

Recommended Action Report the issue to Customer Support

Error Message RIP-4-NO_MEM: Failed to allocate private memory

Explanation The RIP process has run out of private memory

Recommended Action Report the issue to Customer Support

Error Message RIP-4-VALIDATE_ENTRY: [chars]

Explanation A route entry in an incoming response packet is invalid

Recommended Action No special action is required.

Error Message RIP-4-VALIDATE_SRC: [chars] [chars]

Explanation An incoming packet has failed validation

Recommended Action No special action is required.

RIP-5

Error Message RIP-5-TOO_BIG_KEY_SIZE: Authentication key [chars] is > 16 characters in keychain [chars]

Explanation Authentication key size is > 16 characters.

Recommended Action Report the issue to Customer Support

Error Message RIP-5-U6RIB_API_FAILURE: Failed to [chars] routes [chars] U6RIB

Explanation An API call to U6RIB has failed

Recommended Action Report the issue to Customer Support

Error Message RIP-5-URIB_API_FAILURE: Failed to [chars] routes [chars] URIB

Explanation An API call to URIB has failed

Recommended Action Report the issue to Customer Support

RIP-6

Error Message RIP-6-MTS_UNKNOWN_MSG: Received unknown MTS message with opcode [dec], dropping it

Explanation RIP received an unknown message. The message is dropped

Recommended Action No special action is required.

Error Message RIP-6-SYSMAN_CLEANUP: Terminated by SYSMAN cleanup signal

Explanation System Manager sent a cleanup signal to RIP to exit the process

Recommended Action No special action is required.

Error Message RIP-6-UNK_DEB_FLAG: Ignore unrecognized debug flag "[chars]"

Explanation An unknown command line debug option was entered

Recommended Action No special action is required.

RPM Messages

This section contains the RPM messages.

RPM-2

Error Message RPM-2-LIB_MALLOC_FAILED: malloc() failed for allocating [chars] in [chars]()

Explanation RPM API library is out of heap memory

Recommended Action Reload the stack

Error Message RPM-2-MALLOC_FAILED: malloc() failed for allocating [chars] in [chars]()

Explanation RPM process is out of heap memory

Recommended Action Reload the stack

Error Message RPM-2-PPF_SES_ABORT: PPF session abort failed in client [chars] with an error 0x[hex]([chars])

Explanation RPM encountered an error during PPF abort operation.

Recommended Action Reboot router

Error Message RPM-2-PPF_SES_COMMIT: PPF session commit failed in client [chars] with an error 0x[hex]([chars])

Explanation RPM encountered a serious error while committing the verified PBR policy changes to PBR clients

Recommended Action Reboot router

Error Message RPM-2-PPF_SES_RQST: PPF session request failed in client [chars] with an error 0x[hex]([chars])

Explanation RPM encountered an error while requesting PBR statistics from PBR clients

Recommended Action Report the issue to Customer Support

Error Message RPM-2-PPF_SES_VERIFY: PPF session verify failed in client [chars] with an error 0x[hex]([chars])

Explanation RPM encountered an error while pushing PBR policy changes during the verify stage to PBR clients

Recommended Action Report the issue to Customer Support

Error Message RPM-2-PSS_SYNC_BUFFER: Crossed pss sync buffer size limit of [dec] with payload size [dec] - in [chars]()

Explanation RPM tried to PSS sync a message exceeding the maximum allowed size

Recommended Action No special action is required.

Error Message RPM-2-PTHREAD: [chars] failed with error - [dec] in [chars]()

Explanation RPM_UNEXPECTED_EXPLANATION

Recommended Action Keep running, do nothing special

Error Message RPM-2-SLAB_ALLOC_FAILED: slab_alloc() failed for allocating [chars] in [chars]()

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

Recommended Action Reload the stack

Error Message RPM-2-SRV_INIT_API_FAIL: [chars] failed during initialization in [chars]()

Explanation RPM called a server API during initialization which returned an error.

Recommended Action Reboot router

RPM-3

Error Message RPM-3-API_FAILED_NUM: [chars] - failed for [dec] in [chars]()

Explanation RPM invoked an API which failed. This is an unexpected but manageable event.);

Recommended Action Keep running, do nothing special

Error Message RPM-3-API_FAILED_STR_NUM: [chars] - failed for [chars] [dec] in [chars]()

Explanation RPM invoked an API which failed. This is an unexpected but manageable event.);

Recommended Action Keep running, do nothing special

Error Message RPM-3-API_FAILED_STR_STR: [chars] - failed for [chars] [chars] in [chars]()

Explanation RPM invoked an API which failed. This is an unexpected but manageable event.);

Recommended Action Keep running, do nothing special

Error Message RPM-3-API_FAILED_STR: [chars] - failed for [chars] in [chars]()

Explanation RPM invoked an API which failed. This is an unexpected but manageable event.);

Recommended Action Keep running, do nothing special

Error Message RPM-3-API_FAILED: [chars] - failed in [chars]()

Explanation RPM invoked an API which failed. This is an unexpected but manageable event.);

Recommended Action Keep running, do nothing special

Error Message RPM-3-BUILD_LIC_REQ: [chars] failed with error - [chars] (0x[hex]) - in [chars]()

Explanation API failed to build a license request to recheckout a license.

Recommended Action Report the issue to Customer Support

Error Message RPM-3-INFRA_SYSERR: [chars] failed with error - [chars] (0x[hex]) - in [chars]()

Explanation RPM called an infra API which returned an error.

Recommended Action Report the issue to Customer Support

Error Message RPM-3-INT_ERROR: [chars]

Explanation RPM encountered an error during internal processing

Recommended Action Report the issue to Customer Support

Error Message RPM-3-ISSU_PREUPG_FAILED: ISSU Preupgrade failed

Explanation Please remove the incompatible RPM/PBR config and restart ISSU.

Recommended Action Keep running, do nothing special

Error Message RPM-3-LIB_API_FAILED_NUM_NUM: [chars] - failed for [dec] [dec] in [chars]()

Explanation RPM invoked an API which failed. This is an unexpected but manageable event.);

Recommended Action Keep running, do nothing special

Error Message RPM-3-LIB_API_FAILED_NUM: [chars] - failed for [dec] in [chars]()

Explanation RPM invoked an API which failed. This is an unexpected but manageable

event.);

Recommended Action Keep running, do nothing special

Error Message RPM-3-LIB_API_FAILED_STR: [chars] - failed for [chars] in [chars]()

Explanation RPM invoked an API which failed. This is an unexpected but manageable event.);

Recommended Action Keep running, do nothing special

Error Message RPM-3-LIB_API_FAILED: [chars] - failed in [chars]()

Explanation RPM invoked an API which failed. This is an unexpected but manageable event.);

Recommended Action Keep running, do nothing special

Error Message RPM-3-LIB_INT_ERROR: [chars] in [chars]()

Explanation RPM API encountered an error during internal processing

Recommended Action Report the issue to Customer Support

Error Message RPM-3-LIB_KEYCHAIN: Unexpected keychain result :[chars]

Explanation Unexpected result during RPM keychain API processing

Recommended Action Keep running, do nothing special

Error Message RPM-3-LIB_MTS_SEND: Error returned from mts_send(), errno: [chars] in [chars]()

Explanation An MTS API returned an error while RPM was sending an MTS message.

Recommended Action Keep running, do nothing special

Error Message RPM-3-LIC_CHECKIN_FAILED: [chars] failed with error - [chars] (0x[hex]) - in [chars]()

Explanation Licensing API failed to check in a license.

Recommended Action Report the issue to Customer Support

Error Message RPM-3-LIC_CHECKOUT_FAILED: [chars] failed with error - [chars] (0x[hex]) - in [chars]()

Explanation Licensing API failed to check out a license.

Recommended Action Report the issue to Customer Support

Error Message RPM-3-LIC_REG_FAILED: [chars] failed with error - [chars] (0x[hex]) - in [chars]()

Explanation Licensing API failed while registering for license change notifications.

Recommended Action Report the issue to Customer Support

Error Message RPM-3-LOAD_PARSE_TREE: [chars] failed with error - [chars] (0x[hex]) - in [chars]()

Explanation API failed to load parse tree for PBR commands.

Recommended Action Report the issue to Customer Support

Error Message RPM-3-MTS_DROP: Error returned from mts_drop(), errno: [chars] (0x[hex]) in [chars]()

Explanation An MTS API returned an error when RPM tried to drop a message

Recommended Action Keep running, do nothing special

Error Message RPM-3-MTS_RECV: Error returned from tsp_mts_recv(), errno: [chars] (0x[hex]) in [chars]()

Explanation An MTS API returned an error while RPM was receiving on an MTS queue

Recommended Action Keep running, do nothing special

Error Message RPM-3-MTS_SEND: Error returned from mts_send(), errno: [chars] (0x[hex]) in [chars]()

Explanation An MTS API returned an error while RPM was sending an MTS message

Recommended Action Keep running, do nothing special

Error Message RPM-3-RPMLIB_API_TIMEOUT: [chars] - timed out in [chars]()

Explanation An API call from RPM timed

Recommended Action Requires operator to intervene

Error Message RPM-3-UNLOAD_PARSE_TREE: [chars] failed with error - [chars] (0x[hex]) - in [chars]()

Explanation API failed to unload parse tree for PBR commands.

Recommended Action Report the issue to Customer Support

[RPM-6](#)

Error Message RPM-6-INT_TYPE6: [chars]

Explanation RPM process is not able to provide default type-6 key.

Recommended Action No special action is required.

Error Message RPM-6-LIB_MATCH_IGNORED: The command [chars] in seq. [dec] of route-map [chars] is ignored in [chars]()

Explanation A route-map match command has been ignored.

Recommended Action Keep running, do nothing special

Error Message RPM-6-MTS_UNKNOWN_MSG: Received unknown MTS message with opcode [dec], dropping it in [chars]()

Explanation RPM received an unknown message. The message is dropped

Recommended Action Keep running, do nothing special

Error Message RPM-6-RESTART_SHUTDOWN: RPM shutting self down via restart command in [chars]()

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

Recommended Action No special action is required.

TCP Messages

This section contains the TCP messages.

TCP-2

Error Message TCP-2-APICLOSE: [chars]: Unable to close [chars] API

Explanation Can't close api

Recommended Action Reload the stack

Error Message TCP-2-APIINIT: [chars]: Unable to initialize [chars] API

Explanation Can't init api

Recommended Action Reload the stack

Error Message TCP-2-ATTACH: [chars]: Unable to attach to [chars]

Explanation Can't attach shared memoty

Recommended Action Reload the stack

Error Message TCP-2-CLIENT_RECOVERY_FAILED: [chars]: Client recovery [chars] failed. Please restart process [chars].

Explanation Client recovery failed

Recommended Action Restart component

Error Message TCP-2-CLI_CONFHECK_ADD: TCP MSS capability add failed.

Explanation Ip tcp mss

Recommended Action No special action is required.

Error Message TCP-2-CLI_CONFHECK_DELETE: TCP MSS capability delete failed.

Explanation No ip tcp mss

Recommended Action No special action is required.

Error Message TCP-2-COND_DESTROY: [chars]: pthread_cond_destroy failed, error [chars]

Explanation No system resources

Recommended Action Reload the stack

Error Message TCP-2-COND_INIT: [chars]: pthread_cond_init failed, error [chars]

Explanation No system resources

Recommended Action Reload the stack

Error Message TCP-2-COND_WAIT: [chars]: pthread_cond_wait failed, error [chars]

Explanation No system resources

Recommended Action Reload the stack

Error Message TCP-2-DEREGISTER: [chars]: Unable to deregister to [chars]

Explanation Can't deregister with component

Recommended Action Reload the stack

Error Message TCP-2-ENQUEUE: [chars]: Unable to enqueue [chars] to [chars]

Explanation Can't insert client structure in client list

Recommended Action Restart component

Error Message TCP-2-LARGE_PKT: [chars]: Packet size greater than 65535 bytes, len [dec]

Explanation Packet size greater than 65535 bytes

Recommended Action Restart component

Error Message TCP-2-MGETHDR: [chars]: MGETHDR failed, error [chars]

Explanation No system resources

Recommended Action Reload the stack

Error Message TCP-2-MISMATCH_LEN: [chars]: Mismatch in mbuf len ([dec]) and IP len ([dec])

Explanation Mismatch in mbuf len and IP len

Recommended Action Restart component

Error Message TCP-2-MPREPEND: [chars]: m_prepend failed for connection, L: [chars].[dec], F: [chars].[dec], error [chars]

Explanation No system resources

Recommended Action Reload the stack

Error Message TCP-2-MPULLUP: [chars]: m_pullup failed for [chars], error [chars]

Explanation No system resources

Recommended Action Reload the stack

Error Message TCP-2-MTS_BIND: [chars]: Unable to bind to [chars] mts queue: [chars]

Explanation TCP called a MTS API which returned an error.

Recommended Action Reload the stack

Error Message TCP-2-MUTEX_DESTROY: [chars]: pthread_mutex_destroy failed, error [chars]

Explanation No system resources

Recommended Action Reload the stack

Error Message TCP-2-MUTEX_INIT: [chars]: pthread_mutex_init failed, error [chars]

Explanation No system resources

Recommended Action Reload the stack

Error Message TCP-2-MUTEX_LOCK: [chars]: pthread_mutex_lock failed, error [chars]

Explanation No system resources

Recommended Action Reload the stack

Error Message TCP-2-MUTEX_TRYLOCK: [chars]: pthread_mutex_trylock failed, error [chars]

Explanation No system resources

Recommended Action Reload the stack

Error Message TCP-2-MUTEX_UNLOCK: [chars]: pthread_mutex_unlock failed, error [chars]

Explanation No system resources

Recommended Action Reload the stack

Error Message TCP-2-PANIC: [chars]: PANIC: [chars]

Explanation Internal TCP error

Recommended Action Reload the stack

Error Message TCP-2-PTHREAD: [chars]: procket_pthread_create failed for [chars]: error [dec]

Explanation No system resources

Recommended Action Reload the stack

Error Message TCP-2-REGISTER: [chars]: [chars] failed

Explanation Can't register with component

Recommended Action Reload the stack

Error Message TCP-2-SETSCHED: [chars]: Could not set scheduling or priority

Explanation Could not set scheduling or priority

Recommended Action Reload the stack

Error Message TCP-2-SOOPEN: socket open failed, errno [dec]

Explanation Socket open failed

Recommended Action No special action is required.

Error Message TCP-2-TSP_INIT: [chars]: Could not initialize tsp locking library

Explanation Could not initialize locking library

Recommended Action Reload the stack

TCP-3

Error Message TCP-3-ALLOC: Error returned from calloc(), errno: [chars]

Explanation TCP called a calloc API which returned an error.

Recommended Action No special action is required.

Error Message TCP-3-BADSIG: [chars]: Should not have received signal [dec]

Explanation Unexpected signal

Recommended Action No special action is required.

Error Message TCP-3-CLIENT_DELETE: [chars]: Could not delete client "[chars]" pid [dec] error [chars]

Explanation Can't delete client from clients list

Recommended Action Restart component

Error Message TCP-3-CLIENT_NULL: [chars]: Client struct for pid [dec] not found

Explanation Can't find client for pid

Recommended Action Restart component

Error Message TCP-3-DOMAININIT: [chars]: domaininit: [chars] sw[[dec]] has no usrreqs

Explanation Bkoken domain structure

Recommended Action Restart component

Error Message TCP-3-FORK_ERROR: [chars]: Parent of the forked child did not create state for child [dec]:[dec]

Explanation Parent process did not create state necessary for child process registration

Recommended Action Report the issue to Customer Support

Error Message TCP-3-INVALIDPARAM: [chars]: Invalid [chars]

Explanation Invalid parameter

Recommended Action Restart component

Error Message TCP-3-IP_PROT_UNKNOWN: [chars]: Unknown protocol in IP message [dec]

Explanation IP sent a packet with unknown protocol ID

Recommended Action Restart component

Error Message TCP-3-MBUF_COPY: [chars]: Unable to do m_copyback

Explanation No system resources

Recommended Action Reload the stack

Error Message TCP-3-MSG_MAJOR_UNKNOWN: [chars]: Unknown message major [dec], minor [dec]

Explanation Unknown major type

Recommended Action Restart component

Error Message TCP-3-MSG_MINOR_UNKNOWN: [chars]: Unknown minor message type [dec] from [chars]

Explanation Unknown minor type

Recommended Action Restart component

Error Message TCP-3-MTS_RESPOND: Error returned from mts_send_response(), errno: [chars]

Explanation TCP called a MTS API which returned an error.

Recommended Action No special action is required.

Error Message TCP-3-NOMBUF: [chars]: Unable to get mbuf

Explanation No system resources

Recommended Action Reload the stack

Error Message TCP-3-NOMEM: [chars]: malloc failed for: [chars]

Explanation No system resources

Recommended Action Reload the stack

Error Message TCP-3-PROCTERM_NOTIFY: [chars]: Termination notification request failed for pid [dec]

Explanation Request for process termination notification has failed. This could lead to TCP memory leak over period of time

Recommended Action Report the issue to Customer Support

Error Message TCP-3-SM_CREATE: [chars]: Shared memory "[chars]" create failed, error [dec]

Explanation No system resources

Recommended Action Reload the stack

Error Message TCP-3-SOCKET_COLL_FOUND: [chars]: Socket collision found for client: "[chars]", pid [dec]

Explanation Two clients selected on the same socket

Recommended Action No special action is required.

Error Message TCP-3-SOCKET_COLL: [chars]: Socket collision, old client: "[chars]", pid: [dec], new client: "[chars]", pid: [dec]

Explanation Two clients selected on the same socket

Recommended Action No special action is required.

Error Message TCP-3-SOCREATE: [chars]: socreate create failed for client "[chars]" pid [dec] error [chars]

Explanation Can't create socket. See errno for details Reload software if no memory.

Recommended Action Restart component

Error Message TCP-3-TCP_MD5_AUTH_FAILURE: [chars]: Dropping packets from src:[chars].[dec],dst:[chars].[dec]

Explanation TCP recieved packet which fails authentication. The packet is dropped

Recommended Action No special action is required.

Error Message TCP-3-TCP_MD5_ERROR: [chars]:[chars]

Explanation General MD5 error messages

Recommended Action No special action is required.

Error Message TCP-3-TCP_MTS_DROP: Error returned from mts_drop(), errno: [chars]

Explanation TCP called a MTS API which returned an error.

Recommended Action No special action is required.

Error Message TCP-3-TCP_MTS_RECV: [chars]: mts_recv() failed on [chars] queue: [chars]

Explanation TCP called a MTS API which returned an error.

Recommended Action Reload the stack

Error Message TCP-3-TCP_STRUCT_TO_TLV: Structure to TLV failed, errno: [chars]

Explanation TLV conversion failed

Recommended Action No special action is required.

Error Message TCP-3-TCP_TLV_TO_STRUCT: Structure to TLV failed, errno: [chars]

Explanation TLV conversion failed

Recommended Action No special action is required.

Error Message TCP-3-TIMER_CANCEL: [chars]: Timer cancel failed for [chars]

Explanation No system resources

Recommended Action Restart component

Error Message TCP-3-TIMER_CREATE: [chars]: Timer create failed for [chars]

Explanation No system resources

Recommended Action Restart component

Error Message TCP-3-TIMER_INIT: [chars]: Timer init failed

Explanation No system resources

Recommended Action Restart component

Error Message TCP-3-TIMER_START: [chars]: Timer start failed for [chars]

Explanation No system resources

Recommended Action Restart component

[TCP-6](#)

Error Message TCP-6-EXISTS: [chars]: Child Exists: [dec], ppid [dec]

Explanation Child already registered

Recommended Action Report the issue to Customer Support

Error Message TCP-6-NOT_FOUND: [chars]: Parent not found: [dec], cpid [dec]

Explanation Parent process not found

Recommended Action Report the issue to Customer Support

Error Message TCP-6-TCP_MTS_UNKNOWN_MSG: Received unknown MTS message with opcde [dec], dropping it

Explanation TCP recieved an unknown MTS message. The message is dropped

Recommended Action No special action is required.

U6RIB Messages

This section contains the U6RIB messages.

U6RIB-2

Error Message U6RIB-2-API_INIT_SEM: Failed to init the API semaphore: open: [chars], create: [chars]

Explanation U6RIB could not create the semaphore that protects access to the shared memory between U6RIB and its clients.

Recommended Action Reload the stack

Error Message U6RIB-2-NOPMEM: Failed to allocate private memory for [chars]

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-NOSIDMEM: Failed to allocate shared memory for [chars]

Explanation SID Manager has run out of shared memory.

Recommended Action Reload the stack

Error Message U6RIB-2-NOMEM: Failed to allocate shared memory for [chars]. U6RIB has run out of shared memory

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.

Error Message U6RIB-2-RES_MGR: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

Explanation The resource manager returned an error to U6RIB, while U6RIB was performing an action relating to its shared memory

Recommended Action Reload the stack

Error Message U6RIB-2-STARTUP_FAILURE: Startup failure: [chars]

Explanation An unrecoverable software error has occurred during u6rib startup.

Recommended Action Reload the stack

Error Message U6RIB-2-TIMER_LIB: [chars] [chars]

Explanation The timer library returned an error, causing an unrecoverable problem for U6RIB.

Recommended Action Reload the stack

Error Message U6RIB-2-TOO_MANY_CLIENTS: [chars] client "[chars]"

Explanation U6RIB cannot add this client because the U6RIB client limit has already been reached.

Recommended Action Kill component and don't restart it

U6RIB-3

Error Message U6RIB-3-ADD_ERROR: Client "[chars]" could not add [chars]/[dec] to the [chars]

Explanation A severe error was encountered. The system may run into more errors because of this problem.

Recommended Action ACTION_SWITCHOVER_SYSTEM

Error Message U6RIB-3-ADD_PATH: [chars]: could not add path [chars]/[dec] via [chars] for client "[chars]".

Explanation A route add operation has failed for the given client. There may be a previous error message that further explains the problem.

Recommended Action No special action is required.

Error Message U6RIB-3-ADD_RPATH: Client "[chars]" added [chars]/[dec] via not found rnh [chars]/[dec]%[chars]

Explanation A route add operation has failed for the given client. This may be a transient error.

Recommended Action Report the issue to Customer Support

Error Message U6RIB-3-ADD_TPATH_ROUTE: Client "[chars]" added [chars]/[dec]%[chars]

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.

Recommended Action Report the issue to Customer Support

Error Message U6RIB-3-ADD_TPATH: Client "[chars]" added [chars]/[dec] via tableid 0x[hex] : [chars]

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.

Recommended Action Report the issue to Customer Support

Error Message U6RIB-3-ASSERT_ERROR: [chars]:[dec]: Assertion "[chars]" failed.

Explanation An internal software error has occurred. An assertion held to be true failed.

Recommended Action Report the issue to Customer Support

Error Message U6RIB-3-AVLADD_ERROR: Could not add [chars] (0x[hex]) to the [chars] avl

Explanation U6RIB was unable to add a piece of data to an AVL data structure.

Recommended Action Reload the stack

Error Message U6RIB-3-AVLINIT_ERROR: Could not init [chars] avl for VRF [chars]

Explanation U6RIB was unable to correctly initialise an AVL data structure.

Recommended Action Reload the stack

Error Message U6RIB-3-CMI_MTSEND_FAILURE: mts_send failure for client [chars]: [chars]

Explanation U6RIB was unable to send MTS message to a particular client

Recommended Action ACTION_SWITCHOVER_SYSTEM

Error Message U6RIB-3-CMI_PAYLOAD_CONV_ERR: CMI payload conversion error failure from [chars] order to [chars] order

Explanation The cmi payload conversion did not occur successfully.

Recommended Action Keep running, do nothing special

Error Message U6RIB-3-ECMP_LDSHR: [chars]

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: instance not found for client "[chars]" in VRF [chars]

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

Recommended Action Requires operator to intervene

Error Message U6RIB-3-HTADD_ERROR: Could not add [chars] to the [chars] hash table

Explanation A severe hash table error was encountered. The system may run into more errors because of this problem.

Recommended Action ACTION_SWITCHOVER_SYSTEM

Error Message U6RIB-3-IM_INTF_SET: Failed to set ifindex [dec] in cache

Explanation U6rib failed to update cached interface index.

Recommended Action Keep running, do nothing special

Error Message U6RIB-3-IM_ITER: Cannot initialize IM iterator after getting interface down message (err=[dec], [chars])

Explanation U6rib failed to update cached interface index.

Recommended Action Keep running, do nothing special

Error Message U6RIB-3-INCONSISTENT_RNH: [chars]: [chars]/[dec]

Explanation

Recommended Action No special action is required.

Error Message U6RIB-3-INCONSISTENT_ROUTE: [chars]: [chars]/[dec] via [chars]

Explanation

Recommended Action No special action is required.

Error Message U6RIB-3-INCONSISTENT_STRUCTURE: [chars]

Explanation Unexpected remaining state during RIB cleanup

Recommended Action No special action is required.

Error Message U6RIB-3-INCONSISTENT_SUMMARY: [chars]: routes [dec], rnh's [dec]

Explanation Unexpected remaining state for client during RIB cleanup, see following for state: 'show routing ipv6 unicast internal event-history errors'

Recommended Action No special action is required.

Error Message U6RIB-3-INSTANCE_CREATE_ERROR: Failed to create routing instance info for client "[chars]", VRF [chars]

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

Recommended Action Requires operator to intervene

Error Message U6RIB-3-KSINK_LIB_ERROR: [chars] [chars]

Explanation A severe error was encountered during ksink operations. The system may run into more errors because of this problem.

Recommended Action No special action is required.

Error Message U6RIB-3-MOD_ERROR: Client "[chars]" requested modify route for [chars]/[dec]: [chars]

Explanation The named client sent a modify route request, which generated the shown error.

Recommended Action Keep running, do nothing special

Error Message U6RIB-3-MORE_INFO_ERROR: Client "[chars]": table-id 0x[hex] [chars]

Explanation This error provides further information about the previous error. Action should be taken depending on the previous error logged.

Recommended Action No special action is required.

Error Message U6RIB-3-MORE_MTS_INFO_ERROR: source SAP is: [dec] dest SAP is: [dec]

Explanation This error provides further information about the previous MTS error. Action

should be taken depending on the previous error logged.

Recommended Action No special action is required.

Error Message U6RIB-3-MTS_BIND: mts_bind failed for [chars]: [chars]

Explanation U6RIB was unable to bind to an MTS queue SAP.

Recommended Action Reload the stack

Error Message U6RIB-3-MTS_DEREGISTER: mts_deregister failed for u6rib: [chars]

Explanation U6RIB was unable to deregister client from U6RIB notifications, causing an unrecoverable error.

Recommended Action Restart component

Error Message U6RIB-3-MTS_DROP: Error returned from mts_drop(), errno: [chars]

Explanation An MTS API returned an error when U6RIB tried to drop a message.

Recommended Action Keep running, do nothing special

Error Message U6RIB-3-MTS_NO_PAYLOAD_ERROR: Received MTS message with no payload on [chars] queue with opcode [dec], dropping it

Explanation U6RIB recieved an unknown message. The message is dropped

Recommended Action Keep running, do nothing special

Error Message U6RIB-3-MTS_OPTIONS: MTS option set failed for opcode [chars]: [chars] ([dec])

Explanation U6RIB was unable to set options for an MTS opcode

Recommended Action ACTION_SWITCHOVER_SYSTEM

Error Message U6RIB-3-MTS_RECV: Error returned from mts_recv([chars]), errno: [chars]

Explanation An MTS API returned an error while U6RIB was receiving on an MTS queue.

Recommended Action Keep running, do nothing special

Error Message U6RIB-3-MTS_REGISTER: mts_register failed for u6rib: [chars]

Explanation U6RIB was unable to register client for U6RIB notifications, causing an unrecoverable error.

Recommended Action Restart component

Error Message U6RIB-3-NOT_INIT_L3VM_ERROR: L3VM info for table id 0x[hex] from client "[chars]" 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.

Recommended Action Restart component

Error Message U6RIB-3-NO_L3VM_INFO_ERROR: no L3VM info for table id 0x[hex] from client "[chars]" - 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.

Recommended Action Restart component

Error Message U6RIB-3-NO_L3VM_LIMITS: 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 Restart component

Error Message U6RIB-3-OPEN_CLIENT_SHM_ERROR: Failed to open client shared memory "[chars]": [chars]

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'.

Recommended Action Restart component

Error Message U6RIB-3-PSS: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

Explanation U6RIB called a PSS API which returned an error. The error reported should be examined for the cause.

Recommended Action Reload the stack

Error Message U6RIB-3-PTADD_ERROR: Could not add [chars]/[dec] to the [chars] pt, error code [dec]

Explanation A severe route table error was encountered. The system may run into more errors because of this problem.

Recommended Action ACTION_SWITCHOVER_SYSTEM

Error Message U6RIB-3-QADD_ERROR: Could not add [chars] to the [chars] queue

Explanation A severe queue error was encountered. The system may run into more errors because of this problem.

Recommended Action ACTION_SWITCHOVER_SYSTEM

Error Message U6RIB-3-QDEL_ERROR: Could not delete [chars] from the [chars] queue

Explanation A severe queue error was encountered. The system may run into more errors because of this problem.

Recommended Action ACTION_SWITCHOVER_SYSTEM

Error Message U6RIB-3-RANGE_CHECK_ERR: Range check of [chars] failed from [chars] (0x[hex])

Explanation The value provided is outside of the acceptable range.

Recommended Action Report the issue to Customer Support

Error Message U6RIB-3-RNH_LOOP_ERROR: Number of prefixes forming rnh loop exceeds [dec] Flagging route [chars]/[dec] from client "[chars]" with nh [chars], rnh [chars]/[dec] 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.

Recommended Action Requires operator to intervene

Error Message U6RIB-3-ROUTECOUNT_UNDERFLOW: Routing table statistic current tried to underflow deleting [chars]/[dec]

Explanation The system tried to decrement the current number of routes in the table, but the statistic was already zero.

Recommended Action Report the issue to Customer Support

Error Message U6RIB-3-RPM_LIB_ERROR: [chars] [dec]

Explanation An RPM library function returned an error.

Recommended Action No special action is required.

Error Message U6RIB-3-SDWRAP_LIB_ERROR: [chars] [chars]

Explanation A SDWrap library function returned an error.

Recommended Action No special action is required.

Error Message U6RIB-3-SEND_FROM_ERROR: Send from U6RIB to client "[chars]" failed: [chars]

Explanation U6RIB was unable to send a message to the shown client.

Recommended Action Restart component

Error Message U6RIB-3-SEND_TO_ERROR: Send to u6rib failed: [chars]

Explanation The calling process was unable to send a message to U6RIB.

Recommended Action Restart component

Error Message U6RIB-3-STRUCT_ERROR: Structural error: [chars], client "[chars]", table id 0x[hex].

Explanation A severe data structural error was encountered. The system may run into more errors because of this problem.

Recommended Action ACTION_SWITCHOVER_SYSTEM

Error Message U6RIB-3-TABLE_CREATE_ERROR: Failed to create table info for VRF [chars] for

client "[chars]"

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

Recommended Action Requires operator to intervene

Error Message U6RIB-3-TABLE_STATE_ERROR: Table state [chars] for VRF [chars] for client "[chars]"

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

Recommended Action Requires operator to intervene

Error Message U6RIB-3-UFDM_MTSEND_FAILURE: MTS send to UFDM failed with unexpected error [dec]

Explanation U6RIB was unable to send a route update to UFDM. This means there will be a route missing from the FIB.

Recommended Action ACTION_SWITCHOVER_SYSTEM

Error Message U6RIB-3-UNCONVERGED_ROUTING_CLIENT: Client "[chars]" did not signal convergence

Explanation The named Client did not signal convergence as expected, within a default time frame.

Recommended Action Keep running, do nothing special

Error Message U6RIB-3-UNKNOWN_ROUTING_CLIENT: Client "[chars]" 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.

Recommended Action Keep running, do nothing special

[U6RIB-4](#)

Error Message U6RIB-4-COMM_BUFF_ERROR: Only created [dec] [chars] communication buffers of size [dec]

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 ACTION_RTG_LESS_ROUTES_OR_MORE_SMEM

Error Message U6RIB-4-INVALID_SHM_RESIZE: Invalid request to re-size the shared memory on standby. Shared memory not re-sized. New size is [dec], old size is [dec] and maximum allowed size for re-size is [dec]. The standby will need to reload for the changes to take effect.

Explanation U6rib cannot re-size the shared memory on the standby SUP passed a certain threshold. The previous limits still apply.

Recommended Action Reload the stack

Error Message U6RIB-4-NHLFE_OWNER: [chars]/[dec] via [chars]: NHLFE owner changed from client "[chars]" to "[chars]"

Explanation A given path can only have one Next-Hop Label Forwarding Entry. Thus this warning indicates that configuration has generated a conflict.

Recommended Action Requires operator to intervene

Error Message U6RIB-4-RES_MGR_CHANGE: Changed u6route-mem from ([dec], [dec]) to ([dec], [dec]). A reload must be done for the change in shared memory size to take effect.

Explanation The requested limit-resource command was adapted to fit the limits in this version.

Recommended Action Keep running, do nothing special

Error Message U6RIB-4-U6RIB_SHM_RESIZE: Changed u6rib configured shared memory size from [dec] to [dec]. A reload must be done for the change in shared memory size to take effect.

Explanation A reload must be done for the change in shared memory size to take effect.

Recommended Action Reload the stack

Error Message U6RIB-4-UFDM_ACKNOT_FOUND: Could not find UFDM buffer with ptr 0x[hex]

Explanation Ack received for a UFDM buffer that U6RIB does not know about.

Recommended Action Keep running, do nothing special

U6RIB-5

Error Message U6RIB-5-API_INIT_SEM_CLEAR: Cleared the API semaphore from [dec]

Explanation The API semaphore was in an unexpected state, and was restored to a correct value.

Recommended Action Keep running, do nothing special

Error Message U6RIB-5-BOGUS_INTF: Client "[chars]" tried to add [chars]/[dec] via [chars] with interface [chars]

Explanation A bad interface was received in a path add from the client.

Recommended Action No special action is required.

Error Message U6RIB-5-CLT_EVENT_STATE: Client "[chars]" unexpected [chars] event state [dec] != [dec]

Explanation An unexpected but handleable event has occurred.

Recommended Action No special action is required.

Error Message U6RIB-5-CLT_NO_BUF: Client "[chars]" [chars] event has no buffer

Explanation An unexpected but handleable event has occurred.

Recommended Action No special action is required.

Error Message U6RIB-5-DUP_REGISTER: Client "[chars]" 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 Keep running, do nothing special

Error Message U6RIB-5-GENERAL_FAILURE: Failed to [chars]

Explanation The logged action failed.

Recommended Action ACTION_SWITCHOVER_SYSTEM

Error Message U6RIB-5-INIT_L3VM_SUCCESS: [chars]

Explanation There was a previous error trying to initialize l3vm but a retry has been done and it is now successful.

Recommended Action No special action is required.

Error Message U6RIB-5-MAX_CLIENTS_REACHED: Maximum ([dec]) registered client has been reached

Explanation After add this client, the U6RIB client limit has already been reached.

Recommended Action No special action is required.

Error Message U6RIB-5-NOTIFY_THREAD: Failed to notify [chars] thread - Reschedule

Explanation An unexpected but handleable event has occurred.

Recommended Action No special action is required.

Error Message U6RIB-5-NULL_WORKITEM_PIB: No client info found for work item type [dec] table [dec]

Explanation An unexpected but handleable event has occurred.

Recommended Action No special action is required.

Error Message U6RIB-5-PID_CHANGED: Client "[chars]" 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 Keep running, do nothing special

Error Message U6RIB-5-U6RIB_DOWN: [chars]

Explanation There was a call to U6RIB API while U6RIB was not ready to process it.

Recommended Action Keep running, do nothing special

Error Message U6RIB-5-UNK_MSG_MINOR: Unrecognised [chars] message minor type [dec]

Explanation U6RIB received an unknown message. The message is dropped

Recommended Action Keep running, do nothing special

U6RIB-6

Error Message U6RIB-6-GENERAL_INFO: [chars]

Explanation Informational message only.

Recommended Action Keep running, do nothing special

Error Message U6RIB-6-MTS_SHORT_MSG_ERROR: Received short ([dec] < [dec]) MTS message on [chars] queue with opcode [dec], dropping it

Explanation U6RIB received an unknown message. The message is dropped

Recommended Action Keep running, do nothing special

Error Message U6RIB-6-NH_DELETED_NIB_INFO: Found hidden next-hop [chars] ([dec]) for client "[chars]" in deleted NIB

Explanation U6RIB found a hidden next-hop for the client While a client was deregistering for a table.

Recommended Action Keep running, do nothing special

Error Message U6RIB-6-NO_MTS_PAYLOAD: Received MTS message with no payload in thread [chars] from sap [dec], dropping it

Explanation U6RIB received an unknown message. The message is dropped

Recommended Action Keep running, do nothing special

Error Message U6RIB-6-ROUDELIMIT_CUMUL_OVERFLOWED: Routing table cumulative statistic "[chars]" overflowed 64 bits

Explanation The routing table cumulative statistic is used internally and for debugging. The statistic just reached the maximum value for 64 bits.

Recommended Action Keep running, do nothing special

Error Message U6RIB-6-ROUTE LIMIT_OVERFLOWED: Routing table statistic "[chars]" overflowed 32 bits

Explanation The routing table statistic is returned in a MIB which only supports 32 bit values. The statistic just reached the maximum value for 32 bits.

Recommended Action Keep running, do nothing special

Error Message U6RIB-6-ROUTE LIMIT_RECOVERED: Number of routes ([dec]) is below the configured limit ([dec])

Explanation The number of routes in the named routing table has fallen below the configured limit. The routing table has recovered

Recommended Action Keep running, do nothing special

Error Message U6RIB-6-ROUTE LIMIT_REINSTALL: 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 Keep running, do nothing special

Error Message U6RIB-6-ROUTE LIMIT_UNDERFLOWED: Routing table statistic "[chars]" underflowed

Explanation The routing table statistic just underflowed below 0.

Recommended Action Keep running, do nothing special

Error Message U6RIB-6-TRACE_OVERFLOW: Trace buffer [chars] overflowed

Explanation The given event trace overflowed. This is normal behaviour.

Recommended Action Keep running, do nothing special

Error Message U6RIB-6-UNK_MTS_OPCODE: [chars] thread - Unrecognised MTS opcode [dec]

Explanation U6RIB received an unknown message. The message is dropped

Recommended Action Keep running, do nothing special

URIB Messages

This section contains the URIB messages.

URIB-2

Error Message URIB-2-API_INIT_SEM: Failed to init the client API semaphore: open: [chars], create: [chars]

Explanation URIB could not create the semaphore that protects access to the shared memory between URIB and its clients.

Recommended Action Reload the stack

Error Message URIB-2-BAD_PT: Possible Patricia tree corruption in [chars]

Explanation An unrecoverable software error has occurred because of a bad route table.

Recommended Action Reload the stack

Error Message URIB-2-NOPMEM: Failed to allocate private memory for [chars]

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: Failed to allocate shared memory for [chars]. URIB has run out of shared memory

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.

Error Message URIB-2-RES_MGR: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

Explanation The resource manager returned an error to URIB, while URIB was performing an action relating to its shared memory

Recommended Action Reload the stack

Error Message URIB-2-STARTUP_FAILURE: Startup failure: [chars]

Explanation An unrecoverable software error has occurred during URIB startup.

Recommended Action Reload the stack

Error Message URIB-2-TIMER_LIB: [chars] [chars]

Explanation The timer library returned an error, causing an unrecoverable problem for URIB.

Recommended Action Reload the stack

Error Message URIB-2-TOO_MANY_CLIENTS: [chars] client "[chars]"

Explanation URIB cannot add this client because the URIB client limit has already been reached.

Recommended Action Kill component and don't restart it

Error Message URIB-2-UFDM_MGMT: Route [chars]/[dec] in VRF management not sent to ufdm

Explanation URIB tried to give a route in the management VRF to UFDM

Recommended Action Keep running, do nothing special

URIB-3

Error Message URIB-3-ADD_ERROR: Client "[chars]" could not add [chars]/[dec] to the [chars]

Explanation A severe error was encountered. The system may run into more errors because of this problem.

Recommended Action ACTION_SWITCHOVER_SYSTEM

Error Message URIB-3-ADD_PATH_ERROR: [chars]: could not add path for client "[chars]".

Explanation A route add operation has failed for the given client. There may be a previous error message that further explains the problem.

Recommended Action No special action is required.

Error Message URIB-3-ADD_RPATH: Client "[chars]" added [chars]/[dec] via not found rnh [chars]/[dec]#[chars]

Explanation A route add operation has failed for the given client. This may be a transient error.

Recommended Action Report the issue to Customer Support

Error Message URIB-3-ADD_TPATH: Client "[chars]" added [chars]/[dec] via tableid 0x[hex] : [chars]

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.

Recommended Action Report the issue to Customer Support

Error Message URIB-3-ASSERT_ERROR: [chars]:[dec]: Assertion "[chars]" failed.

Explanation An internal software error has occurred. An assertion held to be true failed.

Recommended Action Report the issue to Customer Support

Error Message URIB-3-AVLADD_ERROR: Could not add [chars] (0x[hex]) to the [chars] avl

Explanation URIB was unable to add a piece of data to an AVL data structure.

Recommended Action Reload the stack

Error Message URIB-3-AVLINIT_ERROR: Could not init [chars] avl for VRF [chars]

Explanation URIB was unable to correctly initialise an AVL data structure.

Recommended Action Reload the stack

Error Message URIB-3-CCMARKERERROR: Mismatch in marker_elem = [dec] and urib_cc_end_download_marker = [dec] for tib: [chars]

Explanation An severe error was encountered during Consistency Checker

Recommended Action No special action is required.

Error Message URIB-3-CCPENDING: Previous Consistency Check has not yet completed

Explanation Previous Consistency Check has not yet completed

Recommended Action No special action is required.

Error Message URIB-3-CC_TOO_BUSY: Proceeding with consistency-check on vrf [chars] but system looks busy.

Explanation Consistency-check was initiated but URIB is currently processing other updates. This could generate false positive errors.

Recommended Action Keep running, do nothing special

Error Message URIB-3-CMI_MTSEND_FAILURE: mts_send failure for client [chars]: [chars]

Explanation URIB was unable to send MTS message to a particular client

Recommended Action ACTION_SWITCHOVER_SYSTEM

Error Message URIB-3-CMI_PAYLOAD_CONV_ERR: CMI payload conversion error failure from [chars] order to [chars] order

Explanation The cmi payload conversion did not occur successfully.

Recommended Action Keep running, do nothing special

Error Message URIB-3-COPY_ERROR: Could not copy [chars] for [chars]/[dec]

Explanation A severe error was encountered during route optimisation. The system may run into more errors because of this problem.

Recommended Action No special action is required.

Error Message URIB-3-CV_INIT: Couldn't init cond var [chars]

Explanation URIB process failed to initialize conditional-variable resource.

Recommended Action Dump core, then restart component

Error Message URIB-3-DEL_ERROR: Could not delete [chars]/[dec] from [chars]

Explanation A severe error was encountered. The system may run into more errors because of this problem.

Recommended Action ACTION_SWITCHOVER_SYSTEM

Error Message URIB-3-DEL_PATH_ERROR: [chars]: could not del path for client "[chars]".

Explanation A route add operation has failed for the given client. There may be a previous error message that further explains the problem.

Recommended Action No special action is required.

Error Message URIB-3-EPID_MIS_MATCH_ERROR: "[chars]" epid ([dec]) does not match known epid ([dec])

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.

Recommended Action Restart component

Error Message URIB-3-FILE_OPEN_ERROR: File open error: [chars]

Explanation This message is for internal debugging only.

Recommended Action No special action is required.

Error Message URIB-3-FILE_WRITE_ERROR: File write error: [chars]

Explanation This message is for internal debugging only.

Recommended Action No special action is required.

Error Message URIB-3-GENERAL_CRIB_ERROR: [chars]

Explanation CRIB not in use.

Recommended Action No special action is required.

Error Message URIB-3-GENERAL_PTHREAD_ERROR: Thread [dec]: [chars]

Explanation The POSIX pthread library returned an error to URIB.

Recommended Action ACTION_SWITCHOVER_SYSTEM

Error Message URIB-3-GENERAL_UI_ERROR: [chars]

Explanation The shown error occurred while the user interface was processing a request. The request should be tried again.

Recommended Action ACTION_OPERATOR_RETRY

Error Message URIB-3-GET_INSTANCE_ERROR: instance not found for client "[chars]" in VRF [chars]

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

Recommended Action Requires operator to intervene

Error Message URIB-3-HTADD_ERROR: Could not add [chars] to the [chars] hash table

Explanation A severe hash table error was encountered. The system may run into more errors because of this problem.

Recommended Action ACTION_SWITCHOVER_SYSTEM

Error Message URIB-3-INCONSISTENT_RNH: [chars]: [chars]/[dec]

Explanation Unexpected remaining recursive next-hop removed during RIB cleanup

Recommended Action Report the issue to Customer Support

Error Message URIB-3-INCONSISTENT_ROUTE: [chars]: [chars]/[dec] via [chars]

Explanation Unexpected remaining route removed during RIB cleanup.

Recommended Action Report the issue to Customer Support

Error Message URIB-3-INCONSISTENT_STRUCTURE: [chars]

Explanation Unexpected remaining state removed during RIB cleanup.

Recommended Action Report the issue to Customer Support

Error Message URIB-3-INCONSISTENT_SUMMARY: [chars]: routes [dec], rnh's [dec]

Explanation Unexpected remaining state for client during RIB cleanup. Use the 'show routing ipv4 unicast internal event-history errors' CLI command for more information.

Recommended Action Report the issue to Customer Support

Error Message URIB-3-INSTANCE_CREATE_ERROR: Failed to create routing instance info for client "[chars]", VRF [chars]

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

Recommended Action Requires operator to intervene

Error Message URIB-3-KSINK_LIB_ERROR: [chars] [chars]

Explanation A severe error was encountered during ksink operations. The system may run into more errors because of this problem.

Recommended Action No special action is required.

Error Message URIB-3-LABELCOUNT_UNDERFLOW: Label count tried to underflow for [chars]

Explanation The client tried to decrement the current number of labels, but the statistic was already zero.

Recommended Action Keep running, do nothing special

Error Message URIB-3-MOD_ERROR: Client "[chars]" could not modify [chars]/[dec]: [chars]

Explanation A severe error was encountered. The system may run into more errors because of this problem.

Recommended Action ACTION_SWITCHOVER_SYSTEM

Error Message URIB-3-MORE_INFO_ERROR: Client "[chars]": [chars]

Explanation This error provides further information about the previous error. Action should

be taken depending on the previous error logged.

Recommended Action No special action is required.

Error Message URIB-3-MORE_MTS_INFO_ERROR: source SAP is: [dec] dest SAP is: [dec]

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 special action is required.

Error Message URIB-3-MTS_BIND: mts_bind failed for [chars]: [chars]

Explanation URIB was unable to bind to an MTS queue SAP, causing an unrecoverable error.

Recommended Action Reload the stack

Error Message URIB-3-MTS_DEREGISTER: mts_deregister failed for urib: [chars]

Explanation URIB was unable to deregister client from URIB notifications, causing an unrecoverable error.

Recommended Action Restart component

Error Message URIB-3-MTS_DROP_CLIENT: Error returned from mts_drop() for [chars], error: [chars]

Explanation MTS API returned an error when URIB client tried to drop a message.

Recommended Action Keep running, do nothing special

Error Message URIB-3-MTS_DROP: Error returned from mts_drop(), error: [chars]

Explanation An MTS API returned an error when URIB tried to drop a message.

Recommended Action Keep running, do nothing special

Error Message URIB-3-MTS_NO_CLIENT_SAP: [chars]: client "[chars]" 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 Restart component

Error Message URIB-3-MTS_NO_PAYLOAD_ERROR: Received MTS message with no payload on [chars] queue with opcode [dec], dropping it. src SAP: [dec] dst SAP: [dec]

Explanation URIB recieved an unknown message. The message is dropped

Recommended Action Keep running, do nothing special

Error Message URIB-3-MTS_OPTIONS: MTS option set failed for opcode [chars]: [chars] ([dec])

Explanation URIB was unable to set options for an MTS opcode

Recommended Action ACTION_SWITCHOVER_SYSTEM

Error Message URIB-3-MTS_RECV: Error returned from mts_recv([chars]), errno: [chars]

Explanation An MTS API returned an error while URIB was receiving on an MTS queue.

Recommended Action Keep running, do nothing special

Error Message URIB-3-MTS_REGISTER: mts_register failed for urib: [chars]

Explanation URIB was unable to register client for URIB notifications, causing an unrecoverable error.

Recommended Action Restart component

Error Message URIB-3-MTS_SHORT_MSG_ERROR: Received short ([dec] < [dec]) MTS message on [chars] queue with opcode [dec], dropping it. src SAP: [dec] dst SAP: [dec]

Explanation URIB recieved an unknown message. The message is dropped

Recommended Action Keep running, do nothing special

Error Message URIB-3-MTS_SIZE_ERROR: [chars]: incorrect [chars] message size from client [chars]: [dec] (should be [dec])

Explanation The size of a URIB message is incorrect for the type of message. The message is dropped.

Recommended Action Keep running, do nothing special

Error Message URIB-3-MTS_UBIND: mts_unbind failed for [chars]: [chars]

Explanation URIB was unable to unbind from an MTS queue SAP, causing an unrecoverable error.

Recommended Action ACTION_SWITCHOVER_SYSTEM

Error Message URIB-3-MUTEX_INIT: Couldn't init mutex [chars]

Explanation URIB process failed to initialize mutex system resource.

Recommended Action Dump core, then restart component

Error Message URIB-3-NH_RESOLV_ADD_ERROR: Could not add [chars]/[dec] to the [chars] ([dec]) resolve buffer

Explanation A severe error was encountered. The system may run into more errors because of this problem.

Recommended Action ACTION_SWITCHOVER_SYSTEM

Error Message URIB-3-NOT_INIT_L3VM_ERROR: L3VM info for table id 0x[hex] from client "[chars]" 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.

Recommended Action Restart component

Error Message URIB-3-NO_L3VM_INFO_ERROR: no L3VM info for table id 0x[hex] from client "[chars]" - 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.

Recommended Action Restart component

Error Message URIB-3-NO_L3VM_LIMITS: 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 Restart component

Error Message URIB-3-OPEN_CLIENT_SHM_ERROR: Failed to open client shared memory "[chars]":
[chars]

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'.

Recommended Action Restart component

Error Message URIB-3-PSS: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

Explanation URIB called a PSS API which returned an error. The error reported should be examined for the cause.

Recommended Action Reload the stack

Error Message URIB-3-PTADD_ERROR: Could not add [chars]/[dec] to the [chars] pt, error code
[dec]

Explanation A severe route table error was encountered. The system may run into more errors because of this problem.

Recommended Action ACTION_SWITCHOVER_SYSTEM

Error Message URIB-3-PTDEL_ERROR: Could not delete [chars]/[dec] from the URIB pt, error code
[dec]

Explanation A severe route table error was encountered. The system may run into more errors because of this problem.

Recommended Action ACTION_SWITCHOVER_SYSTEM

Error Message URIB-3-QADD_ERROR: Could not add [chars] to the [chars] queue

Explanation A severe queue error was encountered. The system may run into more errors because of this problem.

Recommended Action ACTION_SWITCHOVER_SYSTEM

Error Message URIB-3-RANGE_CHECK_ERROR: Range check of [chars] failed from [chars] (0x[hex])

Explanation The value provided is outside of the acceptable range.

Recommended Action Report the issue to Customer Support

Error Message URIB-3-RANGE_CHECK_ERR: Range check of [chars] failed from [chars] (0x[hex])

Explanation The value provided is outside of the acceptable range.

Recommended Action Report the issue to Customer Support

Error Message URIB-3-RNH_REFCOUNT: Client "[chars]" deleting RNH [chars]/[dec] with refcount [dec]

Explanation A client tried to delete a Recursive Next-hop while that RNH was still in use.

Recommended Action Report the issue to Customer Support

Error Message URIB-3-ROUTECOUNT_UNDERFLOW: Routing table statistic current tried to underflow deleting [chars]/[dec]

Explanation The system tried to decrement the current number of routes in the table, but the statistic was already zero.

Recommended Action Report the issue to Customer Support

Error Message URIB-3-RPM_LIB_ERROR: [chars] [dec]

Explanation An RPM library function returned an error.

Recommended Action No special action is required.

Error Message URIB-3-SDWRAP_LIB_ERROR: [chars] [chars]

Explanation A SDWrap library function returned an error.

Recommended Action No special action is required.

Error Message URIB-3-SEND_FROM_ERROR: Send from URIB to client "[chars]" failed: [chars]

Explanation URIB was unable to send a message to the shown client.

Recommended Action Restart component

Error Message URIB-3-SEND_NOTIF_ERROR: Failed to send [chars] notification buffer to client "[chars]"; retried [dec] times

Explanation URIB was unable to send a notification to a client.

Recommended Action Restart component

Error Message URIB-3-SEND_TO_ERROR: Send to URIB failed: [chars]

Explanation The calling process was unable to send a message to URIB.

Recommended Action Restart component

Error Message URIB-3-SHARED_NH_ADD: Could not add nh into the shared database for route [chars].

Explanation Impossible to add a nh to the database.

Recommended Action No special action is required.

Error Message URIB-3-SHARED_NH_UPDATE: Could not update nh into the shared database for element [chars].

Explanation Impossible to update a nh to the database.

Recommended Action No special action is required.

Error Message URIB-3-TABLE_CREATE_ERROR: Failed to create table info for VRF [chars] for client "[chars]"

Explanation URIB 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

Recommended Action Requires operator to intervene

Error Message URIB-3-TABLE_STATE_ERROR: Table state [chars] for VRF [chars] for client "[chars]"

Explanation URIB received a request from a client for a given VRF, but the given VRF was in a state where that request is not permitted

Recommended Action Requires operator to intervene

Error Message URIB-3-UFDM_MTSEND_FAILURE: MTS send; to UFDM failed with unexpected error [dec]

Explanation URIB was unable to send an update to UFDM. The update can be a route or message like table delete.

Recommended Action ACTION_SWITCHOVER_SYSTEM

Error Message URIB-3-UNEXPECTED_MESSAGE: [chars] [dec]. src SAP: [dec] dst SAP: [dec]

Explanation An unexpected interprocess message was received.

Recommended Action Keep running, do nothing special

Error Message URIB-3-XRI_TYPE_ERROR: Unknown XRI type [dec]

Explanation URIB detected unknown eXtended route information while displaying a next-hop address.

Recommended Action Keep running, do nothing special

URIB-4

Error Message URIB-4-INVALID_PIB: [chars] [chars]

Explanation A bad protocol information block was encountered in the given situation.

Recommended Action Keep running, do nothing special

Error Message URIB-4-INVALID_SHM_RESIZE: Invalid request to re-size the shared memory on standby. Shared memory not re-sized. New size is [dec] old size is [dec] and maximum allowed size for re-size is [dec]. The standby will need to reload for the changes to take effect.

Explanation Urib cannot re-size the shared memory on the standby SUP passed a certain

threshold. The previous limits still apply.

Recommended Action Reload the stack

Error Message URIB-4-NHLFE_OWNER_SRTE: [chars]/[dec] via binding label [dec]: NHLFE owner changed from client "[chars]" to "[chars]"

Explanation A given SR-TE path has an invalid binding label. Thus this warning indicates that configuration has generated a conflict.

Recommended Action Requires operator to intervene

Error Message URIB-4-NHLFE_OWNER: [chars]/[dec] via [chars] %[chars]: NHLFE owner changed from client "[chars]" to "[chars]"

Explanation A given path can only have one Next-Hop Label Forwarding Entry. Thus this warning indicates that configuration has generated a conflict.

Recommended Action Requires operator to intervene

Error Message URIB-4-NH_RESOLV_LUKUP: Could not find [chars]/[dec] while processing [chars] ([dec]) resolve buffer

Explanation Unresolved nexthop not cleaned up properly.

Recommended Action No special action is required.

Error Message URIB-4-OPEN_CLIENT_SHM_WARNING: Attempt to execute "[chars]" was not successful: [chars]

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'.

Recommended Action Restart component

Error Message URIB-4-RES_MGR_CHANGE: Changed u4route-mem from ([dec], [dec]) to ([dec], [dec]). A reload must be done for the change in shared memory size to take effect.

Explanation The requested limit-resource command was adapted to fit the limits in this version.

Recommended Action Keep running, do nothing special

Error Message URIB-4-RTDEL_ERROR: Could not find prefix [chars]/[dec], client "[chars]"'s delete request

Explanation Route delete request was received for a non-existing route.

Recommended Action Keep running, do nothing special

Error Message URIB-4-UFDM_ACKNOT_FOUND: Could not find UFDM buffer with ptr 0x[hex]

Explanation Ack received for a UFDM buffer that URIB does not know about.

Recommended Action Keep running, do nothing special

Error Message URIB-4-UFDM_MTSSSEND_FAILURE_RETRY: MTS send; [chars] to UFDM failed with unexpected error [dec]. Will retry until successful.

Explanation URIB was unable to send a route update to UFDM.

Recommended Action No special action is required.

Error Message URIB-4-UNEXPECTED_VALUE: Unexpected value for [chars] ([dec])

Explanation An unexpected value was encountered for the logged event.

Recommended Action Keep running, do nothing special

Error Message URIB-4-URIB_SHM_RESIZE: Changed urib configured shared memory size from [dec] to [dec]. A reload must be done for the change in shared memory size to take effect.

Explanation A reload must be done for the change in shared memory size to take effect.

Recommended Action Reload the stack

Error Message URIB-4-XL_LICENSE_MEMORY: 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 special action is required.

Error Message URIB-4-ZERO_NEXTHOP: Client "[chars]" added 0.0.0.0 next hop and interface [chars] is not point-to-point

Explanation The client protocol added a 0.0.0.0 next-hop address on a non point-to-point interface

Recommended Action No special action is required.

URIB-5

Error Message URIB-5-API_INIT_SEM_CLEAR: Cleared the API semaphore from [dec]

Explanation The API semaphore was in an unexpected state, and was restored to a correct value.

Recommended Action Keep running, do nothing special

Error Message URIB-5-BOGUS_INTF: Client "[chars]" tried to add [chars]/[dec] via [chars] with invalid iod [dec]

Explanation A bad interface was received in a path add from the client.

Recommended Action Restart component

Error Message URIB-5-BOGUS_MASK: Client "[chars]" tried to add [chars]/[dec]

Explanation A bogus mask was received from the client.

Recommended Action Restart component

Error Message URIB-5-BOGUS_PREFIX: "[chars]" tried to add [chars]/[dec]

Explanation A bogus prefix was received from the client.

Recommended Action Restart component

Error Message URIB-5-BOGUS_RNH: "[chars]" tried to add [chars]/[dec] with RNH [chars]/[dec]

Explanation A bogus update with unexpected RNH was received from the client.

Recommended Action Restart component

Error Message URIB-5-GENERAL_FAILURE: Failed to [chars]

Explanation The logged action failed, causing an unrecoverable error.

Recommended Action ACTION_SWITCHOVER_SYSTEM

Error Message URIB-5-MAX_CLIENTS_REACHED: Maximum ([dec]) registered client has been reached

Explanation After add this client, the URIB client limit has already been reached.

Recommended Action No special action is required.

Error Message URIB-5-PATH_DELETE_SRTE: Could not find [chars] for client "[chars]", prefix [chars]/[dec] binding label [dec]

Explanation URIB could not find the path that a client tried to delete.

Recommended Action Keep running, do nothing special

Error Message URIB-5-PATH_DELETE: Could not find [chars] for client "[chars]", prefix [chars]/[dec] nexthop [chars], [chars]

Explanation URIB could not find the path that a client tried to delete.

Recommended Action Keep running, do nothing special

Error Message URIB-5-PIB_NOT_REGISTERED: Client [chars] did not register after URIB restart. Removing this Client.

Explanation URIB client should register again after URIB restart.

Recommended Action Keep running, do nothing special

Error Message URIB-5-RPATH_DELETE: Could not find [chars] for client "[chars]", prefix [chars]/[dec] rnh [chars]/[dec]

Explanation URIB could not find the recursive path that a client tried to delete.

Recommended Action Keep running, do nothing special

Error Message URIB-5-U4RIB_DOWN: Trying to [chars] while URIB is down

Explanation There was a call to URIB API while URIB was not ready to process it.

Recommended Action Keep running, do nothing special

Error Message URIB-5-U6RIB_DOWN: Trying to [chars] while U6RIB is down

Explanation There was a call to U6RIB API while U6RIB was not ready to process it.

Recommended Action Keep running, do nothing special

Error Message URIB-5-URIB_DOWN: [chars]

Explanation There was a call to URIB API while URIB was not ready to process it.

Recommended Action Keep running, do nothing special

URIB-6

Error Message URIB-6-GENERAL_INFO: [chars]

Explanation Informational message only.

Recommended Action Keep running, do nothing special

Error Message URIB-6-MTS_UNK_OPC: Received unknown MTS message on [chars] queue with opcode [dec], dropping it. src SAP: [dec] dst SAP: [dec]

Explanation URIB recieved an unknown message. The message is dropped

Recommended Action Keep running, do nothing special

Error Message URIB-6-NH_DELETED_NIB_INFO: Found hidden rnh [chars]/[dec] for client "[chars]" in deleted NIB

Explanation URIB found a hidden next-hop for a client while the client was deregistering for a table.

Recommended Action Keep running, do nothing special

Error Message URIB-6-ROUDELIMIT_CUMUL_OVERFLOWED: Routing table cumulative statistic "[chars]" overflowed 64 bits

Explanation The routing table cumulative statistic is used internally and for debugging. The statistic just reached the maximum value for 64 bits.

Recommended Action Keep running, do nothing special

Error Message URIB-6-ROUDELIMIT_OVERFLOWED: Routing table statistic "[chars]" overflowed 32 bits

Explanation The routing table statistic is returned in a MIB which only supports 32 bit values. The statistic just reached the maximum value for 32 bits.

Recommended Action Keep running, do nothing special

Error Message URIB-6-ROUDELIMIT_RECOVERED: Number of routes (% PRIu64) is below the configured limit ([dec])

Explanation The number of routes in the named routing table has fallen below the configured limit. The routing table has recovered

Recommended Action Keep running, do nothing special

Error Message URIB-6-ROUDELIMIT_REINSTALL: 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 Keep running, do nothing special

Error Message URIB-6-ROUDELIMIT_UNDERFLOWED: Routing table statistic "[chars]" underflowed

Explanation The routing table statistic just underflowed below 0.

Recommended Action Keep running, do nothing special

Error Message URIB-6-TRACE_OVERFLOW: Trace buffer [chars] overflowed

Explanation The given event trace overflowed. This is normal behaviour.

Recommended Action Keep running, do nothing special

URIB-7

Error Message URIB-7-RNH_LOOP_ERROR_NO_RNH: Number of prefixes forming rnh loop exceeds [dec]
Flagging route [chars]/[dec] from client "[chars]", rnh not found

Explanation URIB detected a loop between routes installed in the RIB. The message shows which client caused the loop.

Recommended Action Requires operator to intervene

Error Message URIB-7-RNH_LOOP_ERROR: Number of prefixes forming rnh loop exceeds [dec]
Flagging route [chars]/[dec] from client "[chars]" with rnh [chars]/[dec] as causing rnh loop

Explanation URIB detected a loop between routes installed in the RIB. The message shows which client caused the loop.

Recommended Action Requires operator to intervene