Cisco Nexus 9000 Series NX-OS System Routing Messages Reference, Release 10.4(3)F

Table of Contents

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-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 FM failed for mac [chars], iod [chars], phy iod: [chars]`

Explanation Mac registration with FM 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

Error Message `AM-3-VLAN_ERR: Failed to derive vlan info`

> **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-DUP_STATIC: [chars] static exists for, IP=[chars], VLAN=[dec], IOD=[dec], Interface=[chars]`

Explanation Informational log about a system event.

Recommended Action No special action is required.

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 contol 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_INVAL: 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_INVAL: 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-ARP_CACHE_PER_INTF_LIMIT_EXCEEDED: ARP cache entries [dec] exceeded, the configured limit [dec] for Interface [chars]`

    Explanation ARP cache entries for given interface exceeded, the configured limit

    Recommended Action Keep running, do nothing special

Error Message `ARP-3-ARP_CACHE_PER_INTF_LIMIT_EXCEEDING: ARP cache entries exceeded configured limit [dec] for interface [chars]`

    Explanation ARP cache entries for given interface is exceeding, the configured limit

    Recommended Action Keep running, do nothing special

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_SRCIP_PROBE: Duplicate address Detected. Probe packet received from [chars] on [chars] with destination set to our local 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_SRC_IP_PROBE: Duplicate address Detected. Probe packet received from [chars] on [chars]([chars]) with destination set to our local 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_SRCIP_PROBE: Duplicate address Detected. Probe packet received from [chars] on [chars] with destination set to our 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_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_PROBE: Duplicate address Detected. Probe packet received from [chars] on [chars]([chars]) with destination set to our 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.

ATIMERS Messages

This section contains the ATIMERS messages.

ATIMERS-3

Error Message `ATIMERS-3-ERROR: [chars]`

>**Explanation** An active timer API returned error

>**Recommended Action** No special action is required.

Error Message `ATIMERS-3-OPER: timer failed to [chars], error [chars]`

>**Explanation** An active timer API returned error

>**Recommended Action** No special action is required.

Error Message `ATIMERS-3-START: starting timer 0x[hex]: heap not allocated for set id [dec]`

>**Explanation** An active timer API returned error

>**Recommended Action** No special action is required.

Error Message `ATIMERS-3-STOP: stopping timer 0x[hex]: heap not allocated for set id [dec]`

> **Explanation** An active timer API returned error

> **Recommended Action** No special action is required.

BGP Messages

This section contains the BGP messages.

BGP-1

Error Message `BGP-1-FHS_DHCP_FAILURE: [[chars]] Type 12 route [chars] has DHCP lease start time in the future. EVPN VTEPs may not be NTP synced leading to unexpected behavior`

> **Explanation** DHCP lease start time has to be in the past

> **Recommended Action** Please make sure all EVPN VTEPs are NTP synced

Error Message `BGP-1-PASSWORD_DECRYPT_FAILURE_ONLY: Password for Peer [chars] could not be properly decrypted.`

> **Explanation** BGP neighbor password configured could not be properly decrypted.

> **Recommended Action** Reconfigure correct neighbor passsword or configure the correct master key for this peer

Error Message `BGP-1-PASSWORD_DECRYPT_FAILURE: Password for Peer [chars] could not be properly decrypted. The Peer would be down until password is fixed`

> **Explanation** BGP neighbor password configured could not be properly decrypted.

> **Recommended Action** Reconfigure correct neighbor passsword

Error Message `BGP-1-PASSWORD_ENCRYPT_FAILURE: Password for peer [chars] could not be properly encrypted to type-6.`

> **Explanation** BGP neighbor password configured could not be properly encrypted to type-6.

> **Recommended Action** Please check type-6 feature and master key are properly configured

Error Message `BGP-1-RPKI_FAILURE: Potential security risk detected. BGP routes received with origination AS disallowed by RPKI. Check these routes using 'sh bgp ipv4 unicast origin-as`

validity-state invalid vrf all' and 'sh bgp ipv6 unicast origin-as validity-state invalid vrf
all' commands

> **Explanation** BGP routes received with origination AS disallowed by RPKI.

> **Recommended Action** Check these routes using 'sh bgp ipv4 unicast origin-as validity-state invalid vrf all' and 'sh bgp ipv6 unicast origin-as validity-state invalid vrf all' commands

BGP-2

Error Message `BGP-2-AFINITFUNCS: Error initializing address family function vectors, ([dec])`

> **Explanation** An unrecoverable error has occured during BGP initialization.

> **Recommended Action** Restart component

Error Message `BGP-2-AFINIT: Error initializing address family, ([dec])`

> **Explanation** An unrecoverable error has occured during BGP initialization.

> **Recommended Action** Restart component

Error Message `BGP-2-APIINIT: Unable to initialize [chars] API`

> **Explanation** An unrecoverable error has occured during BGP initialization.

> **Recommended Action** Restart component

Error Message `BGP-2-APIMTSBIND: Unable to bind to MTS SAP for [chars], sap [dec]: [chars]`

> **Explanation** BGP client was not able to create a message queue for communication.

> **Recommended Action** Restart component

Error Message `BGP-2-ATTACH: Unable to attach to [chars]`

> **Explanation** An unrecoverable error has occured during BGP initialization.

> **Recommended Action** Restart component

Error Message `BGP-2-EVPN_STATIC_MAC: Static/learnt MAC address conflict for [chars] in VNI [dec]`

> **Explanation** Conflict with either local or remote static MAC configuration

Recommended Action Keep running, do nothing special

Error Message `BGP-2-FATAL: Fatal error: [chars]: [chars]`

Explanation An unexpected fatal error has occured.

Recommended Action Restart component

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

Explanation An unrecoverable error has occured during BGP initialization.

Recommended Action Restart component

Error Message `BGP-2-MQLOOP_INIT: Message queue loop [chars], [chars], Error - [chars]`

Explanation An unrecoverable error has occured during BGP initialization.

Recommended Action Restart component

Error Message `BGP-2-MTSBIND: Unable to bind to MTS SAP for [chars], sap [dec]: [chars]`

Explanation BGP was not able to create a message queue for communication.

Recommended Action Restart component

Error Message `BGP-2-PEERSHALTED: BGP [chars] shutdown due to no memory condition ([chars])`

Explanation The system may be low on memory.

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

Error Message `BGP-2-PTHREAD: procket_pthread_create failed for [chars]: error [dec]`

Explanation An unexpected fatal error has occured.

Recommended Action Restart component

Error Message `BGP-2-SRVREG: Unable to register with [chars]`

Explanation An unrecoverable error has occured during BGP initialization.

Recommended Action Restart component

Error Message `BGP-2-SYSMGR_CONDVERIF: Sysmgr conditional verify failed`

Explanation An internal software error occured.

Recommended Action Restart component

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

Explanation An internal software error occured.

Recommended Action Restart component

Error Message `BGP-2-TSP_INIT: Unable to initialize with TSP`

Explanation An unrecoverable error has occured during BGP initialization.

Recommended Action Restart component

Error Message `BGP-2-U6RIBREG: Unable to register with U6RIB for [afi/safi:[dec]/[dec]]`

Explanation An unrecoverable error has occured during BGP initialization.

Recommended Action Restart component

Error Message `BGP-2-UNKNOWNFATAL: Unknown fatal error [dec]: [chars]`

Explanation An unexpected fatal error has occured.

Recommended Action Restart component

Error Message `BGP-2-URIBREG: Unable to register with URIB for [afi/safi:[dec]/[dec]]`

Explanation An unrecoverable error has occured during BGP initialization.

Recommended Action Restart component

BGP-3

Error Message `BGP-3-ACLTESTADD: Failed to add [chars] peer policy test`

Explanation An internal software error occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-AGGADD: [[chars]] Couldn't add aggregate for [chars]/[dec]`

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

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

Error Message `BGP-3-AGGDEL: [[chars]] Couldn't delete aggregate for [chars]/[dec]`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-ALLOCFAIL: [chars] malloc ([dec]) failed for: [chars]`

Explanation The system may be low on memory.

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

Error Message `BGP-3-APIASSERT: [chars]:[dec]: Assertion `[chars]' failed.`

Explanation An internal software error occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-APIMTSDROP: MTS drop failed on [chars] queue: [chars]`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-APIMTSRECV: MTS receive failed on [chars] queue: [chars]`

Explanation An unexpected but handleable event has occured.

Recommended Action Keep running, do nothing special

Error Message `BGP-3-APIMTSSEND: MTS send() error to SAP [dec], opcode [dec]: [chars]`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-API_UNEXP_RESP: Received unexpected message from SAP [dec], opcode [dec], address [chars], ignore it; expecting opcode [dec], address [chars]`

Explanation An unexpected but handleable event has occured.

Recommended Action Keep running, do nothing special

Error Message `BGP-3-APPLY_BESTPATH_CFG: Failed to apply bestpath configuration: [chars]`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

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

Explanation An internal limit was hit in prepending and AS path.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-ASPREPEND: Expected AS sequence or entry sequence, got [dec]/[dec]`

Explanation An error was encountered in prepending to an AS path.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-ASSERT: [chars]:[dec]: Assertion `[chars]' failed.`

Explanation An internal software error occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-ATTRAVL_OP: Failed attribute external database operation: [chars], id [dec]`

Explanation BGP was unable to perform an attribute external database operation

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-ATTRID_OP: Failed to [chars] attribute ID`

Explanation BGP was unable to allocate or free an index for a BGP PATH attribute block

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-BADLOCALAS: VRF [chars], Peer [chars] - bad AS sent in Open message [dec].`

Explanation The peer received an incorrect AS Number

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

Error Message `BGP-3-BADNEXTHOP: [[chars]] Peer [chars] advertised non-mapped nexthop [chars] in MP reach attr [afi/safi:[dec]/[dec]], dropping NLRI`

Explanation The router received a next-hop that was inconsistent with the address-family in the update message.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-BADOPENCAP: VRF [chars], Peer [chars] - bad capability code received [dec].`

Explanation The peer sent a bad/unknown capability

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

Error Message `BGP-3-BADOPENPARAM: VRF [chars], Peer [chars] - unknown optional parameter received [dec].`

Explanation The peer sent an unknown optional parameter

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

Error Message `BGP-3-BADPEERAS: VRF [chars], Peer [chars] - bad remote-as, local AS [dec], expecting [chars][chars][chars], but received [chars].`

Explanation The peer sent an incorrect AS Number

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

Error Message `BGP-3-BADPEERDYNAS: VRF [chars], Peer [chars] - bad remote-as, failed route-map [chars] received [chars].`

Explanation The peer sent an AS Number that did not match route-map

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

Error Message `BGP-3-BADPEERHOLDTIME: VRF [chars], Peer [chars] - bad hold time [chars] [dec].`

Explanation The peer sent and/or received an incompatible hold time

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

Error Message `BGP-3-BADPEERRID: VRF [chars], Peer [chars] - bad router-id [chars] [chars].`

Explanation The peer sent and/or received a bad router-id

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

Error Message `BGP-3-BFD_SEND_AUTO_EXPIRY: Unable to start BFD staling, error [chars](0x[hex])`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-BFD_SEND_EXPIRE_NOW: Unable to expire staled BFD sessions, error [chars](0x[hex])`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-BFD_SES_ADD: Unable to add BFD session for peer [chars], error [chars]`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-BFD_SES_CREATE: Unable to create BFD session Id for peer [chars], error [chars]`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-BFD_SES_REMOVE_ALL: Unable to cleanup the BFD sessions during deconfiguration, error [chars](0x[hex])`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-BFD_SES_REMOVE: Unable to remove BFD session for peer [chars], error [chars]`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-BFD_SES_STALE: Unable to stale BFD session for peer [chars], error [chars]`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-BGW_MVPN_VRI_GENERATION_FAILED: Unable to generate MVPN VRI on multisite border gateway because site-id is more than 2-bytes. Configure router bgp ; mvpn vri id .`

Explanation Unable to generate MVPN VRI on multisite border gateway

Recommended Action Configure mvpn vri id

Error Message `BGP-3-BRIBADD: [[chars]] Couldn't add [chars] to BRIB (key length [dec], error [dec])`

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

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

Error Message `BGP-3-BRIBDEL: [[chars]] Error [dec] deleting [chars] from BRIB`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-BRIB_ADD_INT: Internal error in adding to BRIB: [chars]`

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

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

Error Message `BGP-3-BRIB_ESADD: [[chars]] Couldn't add ES [chars] to BRIB`

Explanation BGP was unable to create an EVPN instance. The BGP process may have run out of memory.

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

Error Message `BGP-3-BRIB_EVI_TOPO_ADD: Couldn't add EVI [dec] with topo [dec] to AVL`

Explanation BGP was unable to add EVI to the EVPN topo AVL. The BGP process may have run out of memory.

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

Error Message `BGP-3-BRIB_EVI_TOPO_DEL: Couldn't delete EVI [dec] with topo [dec] from AVL`

Explanation BGP was unable to delete EVI from the EVPN topo AVL. The BGP process may have run out of memory.

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

Error Message `BGP-3-BRIB_RDADD: [[chars]] Couldn't add rdinfo [chars] to BRIB`

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

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

Error Message `BGP-3-BRIB_RDCLASH: VRF [chars], [chars]: RD clash found during [chars]`

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

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

Error Message `BGP-3-BRIB_RDDEL: [[chars]] Couldn't delete rdinfo [chars] from BRIB`

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

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

Error Message `BGP-3-CLISET: Unable to set [chars] inheritance for [chars]`

Explanation An internal software error occured.

Recommended Action Restart component

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

Explanation An internal error was encountered in adding a community.

Recommended Action Report the issue to Customer Support

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

Explanation An internal limit was hit in adding a community.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-COMMATTRAVL_OP: Failed community attribute avl database operation: [chars], id [dec]`

Explanation BGP was unable to perform a community attribute database operation

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-CONDSRV_CLEANUP: Conditional Service cleanup request failed, [chars]`

Explanation Sysmgr rejected BGP's request to shut down.

Recommended Action No special action is required.

Error Message `BGP-3-CONFCHECK: confcheck API [chars]() failed with error: [chars](0x[hex]).`

Explanation Confcheck API has failed

Recommended Action Keep running, do nothing special

Error Message `BGP-3-DAMPCFG: Both policy and global dampconf exist`

Explanation An internal software error occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-DEBUG_FD_ERROR: Unable to open debug file [chars], errno: [dec]`

Explanation Debug messages may not be collected due to system error

Recommended Action Keep running, do nothing special

Error Message `BGP-3-DEBUG_FD_WRITE_ERROR: Unable to write to debug file, fd: [dec], errno: [dec], nread: [dec], nwritten: [dec]`

Explanation Debug messages may not be collected due to system error

Recommended Action Keep running, do nothing special

Error Message `BGP-3-DEBUG_PIPE_ERROR: Unable to open debug pipes, errno: [dec]`

Explanation Debug messages may not be collected due to system error

Recommended Action Keep running, do nothing special

Error Message `BGP-3-DEBUG_PIPE_READ_ERROR: Unable to read from debug pipe, fd: [dec], errno: [dec]`

Explanation Debug messages may not be collected due to system error

Recommended Action Keep running, do nothing special

Error Message `BGP-3-DEBUG_PIPE_WRITE_ERROR: Unable to write to debug pipe, fd: [dec]([dec]), errno: [dec], nwritten: [dec]`

Explanation Debug messages may not be collected due to system error

Recommended Action Keep running, do nothing special

Error Message `BGP-3-DUPLICATE_INTERFACE_PEER: The interface peer [chars] that was learned over [chars] is also seen on [chars]`

Explanation Session could not be brought up because duplicate peer address is not supported

Recommended Action Configure unique link local addresses on remote side

Error Message `BGP-3-EAD_ES_CFG_CREATE: [[chars]] Couldn't create EAD_ES_Node for ESI [chars]`

to

> **Explanation** BGP was unable to create an EVPN instance. The BGP process may have run out of memory.

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

Error Message `BGP-3-EAD_ES_SEG_CREATE: [[chars]] Couldn't create EAD_ES_Seg for ESI [chars] to`

> **Explanation** BGP was unable to create an EVPN instance. The BGP process may have run out of memory.

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

Error Message `BGP-3-EBGPTTL: Unable to set EBGP TTL for peer [chars], fd [dec]`

> **Explanation** An unexpected but handleable event has occured.

> **Recommended Action** Report the issue to Customer Support

Error Message `BGP-3-EPE_MAX_ACTIVE_PEER_SET: Peer-set [chars] exceeds maximum of [dec] established peers`

> **Explanation** EPE peer-set has more active peers than can be used for MPLS forwarding

> **Recommended Action** Keep running, do nothing special

Error Message `BGP-3-EVENT_WAIT: Error while waiting for [chars] event, error - [chars]`

> **Explanation** An unexpected but handleable event has occured.

> **Recommended Action** Report the issue to Customer Support

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

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

> **Recommended Action** Report the issue to Customer Support

Error Message `BGP-3-EXTCOMMATTRAVL_OP: Failed extcommunity attribute avl database operation: [chars], id [dec]`

Explanation BGP was unable to perform a extcommunity attribute database operation

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-FEATURE_STATUS: FM status for feature [chars] failed with error: [chars](0x[hex]).`

Explanation FM get feature status failed

Recommended Action Keep running, do nothing special

Error Message `BGP-3-FINDAGGR: [[chars]] Did not find aggregate path for entry [chars]/[dec]`

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

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-ILLARGS: [chars] called with illegal arguments`

Explanation An internal software error occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-IMPORT_VRF_EXCEED: Maximum limit on number of import VRFs exceeded`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-INTERNAL_INFO: [chars] [dec]`

Explanation Printing Internal Information

Recommended Action No special action is required.

Error Message `BGP-3-INTERNAL: Internal error [dec]: [chars]`

Explanation An internal software error occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-INVHDR: Peer [chars] sent unexpected header pattern`

Explanation The marker pattern in message header was invalid

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

Error Message `BGP-3-IPTABLES_CHAIN_REMOVE: Unable to remove iptables chain for vrf [chars]`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-IPTABLES_CHAIN: Unable to create iptables chain for vrf [chars]`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-IPTABLES: Unable to configure iptables rule for neighbor [chars]`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-IPTOS: Unable to set IP TOS bits for [chars], fd [dec]`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-LARGECOMADD: Error occurred in large community addition, no action taken`

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

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-LISTEN_SOCK: Failed to listen on [chars] BGP TCP port`

Explanation BGP_EXPL_SOCK_ERROR

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-LIST: [chars]`

Explanation An internal software error occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-LOWMEM: Low on heap memory`

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

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

Error Message `BGP-3-MD5PASS: Cannot set MD5 password for peer [chars]`

> **Explanation** An internal software error occured.

> **Recommended Action** Report the issue to Customer Support

Error Message `BGP-3-MISSING_ROUTERID: Router ID is removed. RD is deleted since RD is generated by router ID automatically`

> **Explanation** Router id is removed while auto rd is still configured

> **Recommended Action** ACTION_BGP_KEEP_RUNNING

Error Message `BGP-3-MQLOOP_SHUTDOWN: Couldn't shut down [chars] message queue loop`

> **Explanation** An unexpected but handleable event has occured.

> **Recommended Action** Report the issue to Customer Support

Error Message `BGP-3-MTSDROP: MTS drop failed on [chars] queue: [chars]`

> **Explanation** An unexpected but handleable event has occured.

> **Recommended Action** Report the issue to Customer Support

Error Message `BGP-3-MTSSEND: MTS send() error to SAP [dec], opcode [dec]: [chars]`

> **Explanation** An unexpected but handleable event has occured.

> **Recommended Action** Report the issue to Customer Support

Error Message `BGP-3-NBRERR: [chars] Peer error: [chars]`

> **Explanation** An internal software error occured.

> **Recommended Action** Report the issue to Customer Support

Error Message `BGP-3-NEGWRITE: Negative nr of [dec] bytes left to write to peer [chars]`

Explanation An internal software error occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-NETWKRNHSETUP: Couldn't setup rnh notifications for network [chars],`
`error: [chars]`

Explanation Could not setup RNH for network prefix

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

Error Message `BGP-3-NEXTHOPADD: [[chars]] Couldn't add next-hop to RNHDB for [chars]/[dec],`
`error [dec]`

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

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

Error Message `BGP-3-NEXTHOPDEL: [[chars]] Couldn't delete next-hop from RNHDB for`
`[chars]/[dec], error [dec]`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-NOBUF: [[chars]] Unable to get buffer for [chars] msg to peer [chars]`

Explanation An internal software error occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-NOMEMORY: Could not allocate [chars]`

Explanation The system may be low on memory.

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

Error Message `BGP-3-OCAVL_OP: Failed OC database operation: [chars], id [dec]`

Explanation BGP was unable to perform an OC database operation

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-PATH_DEL: Failed to destroy path ([chars]), error [dec]`

Explanation The BGP process may have run out of memory.

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

Error Message `BGP-3-PATH_STALE: [[chars]] [chars] path being [chars], for [chars] from peer [chars], should not be stale`

Explanation An internal software error occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-PEER: Peer [chars], failed [chars]`

Explanation An internal software error occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-PFX_NOMEM: Could not allocate [chars] for [chars]/[dec]`

Explanation The system may be low on memory.

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

Error Message `BGP-3-PLCYOUT: Cannot add reference to policy out info for route-map [chars]`

Explanation BGP was not able to create an entry for an outbound policy.

Recommended Action Restart component

Error Message `BGP-3-PLCYRNHATTACH: Couldn't attach to policy RNH info for policy [chars], error: [chars]`

Explanation An internal error occurred in using a policy. BGP_EXPL_NO_MEM_MAYBE

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

Error Message `BGP-3-PLCYRNHDETACH: Couldn't detach from policy RNH info for policy [chars],`

```
error: [chars]
```

> **Explanation** An internal software error occured.

> **Recommended Action** Report the issue to Customer Support

Error Message `BGP-3-PLCYRNHSETUP: Couldn't setup rnh notifications for policy [chars], error: [chars]`

> **Explanation** An internal error occurred in using a policy. BGP_EXPL_NO_MEM_MAYBE

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

Error Message `BGP-3-RDINFO: VRF [chars], [chars], table [chars]: rdinfo [chars] failed`

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

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

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

> **Explanation** An unrecoverable error has occured during BGP initialization.

> **Recommended Action** Restart component

Error Message `BGP-3-RESTARTTYPE: Error in learning restart type`

> **Explanation** An internal software error occured.

> **Recommended Action** Report the issue to Customer Support

Error Message `BGP-3-RNHCB: RNH [chars] error: [chars]`

> **Explanation** An internal software error occured.

> **Recommended Action** Report the issue to Customer Support

Error Message `BGP-3-RPC_SET_ID_OP: Failed to [chars] RPC SET ID`

> **Explanation** BGP was unable to allocate or free an index for a BGP NEXTHOP RPC SET ID block

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-RPKIADD: Couldn't add [chars]/[dec] to RPKI table`

Explanation BGP was unable to add RPKI dest to ROA database. The BGP process may have run out of memory.

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

Error Message `BGP-3-RPKIDEL: [[chars]] Couldn't delete RPKI dest [chars]/[dec]`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-RPMBIND: RPM policy bind failed for [chars] [chars]`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-RPMDEBUG: Failed to initialize [chars] debug API`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-RPMHANDLE: RPM notification handle does not match existing handle for policy [chars]`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-RPM_L3VPN_EXTCOMM: L3vpn extcommunity failure during [chars]`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-RT_DB_ADD: Couldn't add route target [chars] into the database`

Explanation The router could not add route-target in its internal database

Recommended Action ACTION_BGP_REPORT_CS

Error Message `BGP-3-SENDBUF: Error manipulating sendbuf: [chars]`

Explanation An internal software error occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-SIDMGRINITAPI: Unable to INITIALIZE with SID Manager, error: [dec]`

Explanation Error calling SID Init API

Recommended Action Keep running, do nothing special

Error Message `BGP-3-SIDMGRREG: Unable to register with SID Manager, error: [dec]`

Explanation Error calling SID Manager register API

Recommended Action Keep running, do nothing special

Error Message `BGP-3-SNMP_API_DATA: Message data is NULL`

Explanation SNMP message does not have memory to store data.

Recommended Action Keep running, do nothing special

Error Message `BGP-3-SOCKBIND: Cannot bind local socket for peer [chars]: [chars]`

Explanation An error occured during a socket operation.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-SOCKCREATE: Cannot create socket for peer [chars]: [chars], stats: [dec]/[dec]/[dec]/[dec]/[dec]`

Explanation An error occured during a socket operation.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-SOCKMAXSEG: Could not set maxseg [dec] on listen fd [dec]`

Explanation An error occured during a socket operation.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-SOCKNONBLOCK: Couldn't make fd [dec] non-blocking: [chars]`

Explanation An error occured during a socket operation.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-SOCKOPEN: TCP connection for peer [chars] already open, fd [dec], state [chars]`

Explanation An internal software error occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-SOCK_ACCEPT: Socket ([dec]/[dec]) accept: [chars]`

Explanation BGP_EXPL_SOCK_ERROR

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-SOCK_ERR: Socket ([dec]/[dec]): [chars]`

Explanation BGP_EXPL_SOCK_ERROR

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-SOCK_FDPOP: Unexpected error during socket fd population [chars]([dec])`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-SOCK_RECV: Unexpected error during socket data recv [chars]([dec])`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-SOFTINCAP: Peer [chars] not capable of soft refresh in, operator intervention needed: [chars]`

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

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

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

Explanation An unrecoverable error has occured during BGP initialization.

Recommended Action Restart component

Error Message `BGP-3-SRVDEREG: Unable to deregister with [chars]`

Explanation An unrecoverable error has occured during BGP initialization.

Recommended Action Restart component

Error Message `BGP-3-SUPSTATE: Error in learning SUP state`

Explanation An internal software error occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-TBLATTRAVL_OP: Failed table attribute database operation: [chars], id [hex]`

Explanation BGP was unable to perform a table attribute database operation

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-TBLAVL_OP: Failed table database operation: [chars], table [chars] id [hex]`

Explanation BGP was unable to perform a table database operation

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-TBLCTX_INIT: VRF [chars], [chars], table [chars]: Table initialization failed`

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

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

Error Message `BGP-3-THREAD_SHUTDOWN: Problem shutting down thread [chars]: Operation -`

```
[chars], Error - [chars]
```

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-TIMER_START: Couldn't start [chars] timer [chars]`

Explanation An internal software error occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-TIMER_STOP: Couldn't stop [chars] timer [chars]`

Explanation An internal software error occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-U6RIBRNH: U6RIB RNH error: [chars]`

Explanation An internal software error occured.

Recommended Action Report the issue to Customer Support

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

Explanation An unrecoverable error has occured during BGP initialization.

Recommended Action Restart component

Error Message `BGP-3-ULIBRNH: ULIB RNH error: [chars]`

Explanation An internal software error occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-UNEXPECT: [chars] L[dec]: [chars]`

Explanation An internal software error occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-UNEXPPATHATTR: [[chars]] Unexpected attr ([hex]) path chain for [chars]`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-UNSUPPORTED_NEXTHOP_RECV: VTEP AF does not match with nexthop AF received for dest [chars]`

Explanation VTEP AF does not match with received nexthop AF.

Recommended Action Keep running, do nothing special

Error Message `BGP-3-UNSUPPORTED_NEXTHOP: VTEP AF does not match with Peer AF. Path cannot be advertised to Peer [chars]`

Explanation VTEP AF does not match with peer AF.

Recommended Action Keep running, do nothing special

Error Message `BGP-3-URIBRNH: URIB RNH error: [chars]`

Explanation An internal software error occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-URIBRT: URIB RT error: [chars]`

Explanation An internal software error occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-URIB_API: URIB API [chars]() failed`

Explanation URIB API had failed

Recommended Action Keep running, do nothing special

Error Message `BGP-3-URIB_RT_MODIFY_WITH_RC: URIB route modify operation failed during [chars] [dec]`

Explanation An internal software error occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-URIB_RT_MODIFY: URIB route modify operation failed during [chars]`

Explanation An internal software error occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-VPC_MVPN_VRI_GENERATION_FAILED: Configuration router bgp ; mvpn vri id is required to generate MVPN VRI on vPC node.`

Explanation Unable to generate MVPN VRI on vPC node

Recommended Action Configure mvpn vri id

Error Message `BGP-3-VRFAVL_OP: Failed vrf database operation: [chars], vrf [chars] id [dec]`

Explanation BGP was unable to perform a vrf database operation

Recommended Action Report the issue to Customer Support

Error Message `BGP-3-VRF_CTX: VRF [chars], failed [chars]`

Explanation An internal software error occured.

Recommended Action Report the issue to Customer Support

BGP-4

Error Message `BGP-4-AFIMPORT: [chars] prefixes imported from [chars] to [chars] has reached the limit [dec]`

Explanation

Recommended Action No special action is required.

Error Message `BGP-4-APIMTSNOMSG: No MTS payload found on [chars] queue, opc [dec]`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-4-CFG_ADVERTISEPIP_ADD: Command 'advertise-pip' has been configured: please, ensure that 'advertise virtual-rmac' under interface NVE is also configured for proper VxLAN functionality.`

Explanation Advertise-pip and advertise virtual-rmac must be in sync

Recommended Action No special action is required.

Error Message `BGP-4-CFG_ADVERTISEPIP_DEL: Command 'advertise-pip' has been removed: please, ensure that 'advertise virtual-rmac' under interface NVE is also removed for proper VxLAN functionality.`

    Explanation Advertise-pip and advertise virtual-rmac must be in sync

    Recommended Action No special action is required.

Error Message `BGP-4-CFG_ADVERTISEPIP_ORDER: Command 'advertise-pip' has been configured: please remove advertise-pip and configure 'advertise virtual-rmac' under interface NVE first.`

    Explanation Advertise-pip and advertise virtual-rmac must be in special order

    Recommended Action No special action is required.

Error Message `BGP-4-CFG_EVPN_ORIG_MAP_MISSING: [chars] route type [dec] received from L2RIB with tag [dec], no originate-map policy configured`

    Explanation Originate-map policy missing

    Recommended Action Keep running, do nothing special

Error Message `BGP-4-CFG_REWRITE_RT_ASN: When soft-reconfig is enabled, enabling/disabling 'rewrite-rt-asn' may not take effect until after 'restart bgp' is issued`

    Explanation Rewrite-rt-asn requires a restart BGP when soft-reconfig is configured

    Recommended Action No special action is required.

Error Message `BGP-4-DUAL_RD_GENERATION_FAILED: Unable to generate dual RD on EVPN multisite border gateway. This may increase memory consumption on other BGP routers receiving re-originated EVPN routes. Configure router bgp ; rd dual id to avoid it.`

    Explanation Unable to generate dual RD on EVPN multisite border gateway

    Recommended Action Configure rd dual id

Error Message `BGP-4-EPE_NONDEFAULT_VRF: Command egress-engineering cannot be configured for peer [chars] in a non-default VRF`

    Explanation Template egress-engineering not applied to peer in non-default VRF

    Recommended Action Keep running, do nothing special

Error Message `BGP-4-ERR_HANDLING_REASON: Enhanced Error processing: [chars] [[dec]] Action:` `[chars] from peer [chars]`

Explanation Which attribute trigger the enhanced error processing

Recommended Action Keep running, do nothing special

Error Message `BGP-4-ERR_TREAT_AS_WITHDRAW: Treating advertised routes as withdraw from peer` `[chars] af [[chars]] [chars]/[dec] [chars]`

Explanation Advertised routes are taken as withdraw because of a route filter match or an attribute is malformed

Recommended Action Keep running, do nothing special

Error Message `BGP-4-EVPN_MANUAL_CONFIG_DELETE: EVPN mode has been removed. All L2 VNIs will` `have their manual overriding configurations deleted and their RD and RTs defaulted to the auto` `values`

Explanation EVPN defaults to auto when vni is UP in NVE.

Recommended Action No special action is required.

Error Message `BGP-4-EXIT_DECONFIG: BGP process exiting due to deconfiguration`

Explanation The indicated BGP process has been deconfigured.

Recommended Action No special action is required.

Error Message `BGP-4-EXIT_RESTART: BGP process exiting due to manual restart`

Explanation The indicated BGP process is being restarted.

Recommended Action No special action is required.

Error Message `BGP-4-EXIT_UNKNOWN: BGP process exiting due to unknown reason`

Explanation

Recommended Action No special action is required.

Error Message `BGP-4-EXTCOMLEN: Extended communities exceeded the max limit of [dec]`

Explanation An internal limit was hit in adding an extended community.

Recommended Action Report the issue to Customer Support

Error Message `BGP-4-INVALIDIOD: Received interface([chars]) [chars] notification from IM with zero iod`

    Explanation BGP received an IF notification from IM with zero or invalid iod

    Recommended Action No special action is required.

Error Message `BGP-4-ISSU_CHECK: Not ready for ISSU: Graceful Restart or hold time check failed`

    Explanation Either Graceful Restart is disabled or hold time is less than or equal to switchover time for one or more peers.

    Recommended Action Keep running, do nothing special

Error Message `BGP-4-ISSU_HOLDTIME: ISSU will be affected if hold time is less than or equal to system switchover time ([dec] seconds)`

    Explanation Hold time is less than or equal to system switchover time.

    Recommended Action Keep running, do nothing special

Error Message `BGP-4-LDP_CONV_TIMER_EXP: [[chars]] Bestpath timer expired before LDP got converged vrf: [chars]`

    Explanation Bestpath timer expired before LDP got converged after SSO

    Recommended Action No special action is required.

Error Message `BGP-4-MAXPEERS: Trying to configure more than [dec] neighbors`

    Explanation BGP has hit the limit of the number of peers that can. be configured.

    Recommended Action Keep running, do nothing special

Error Message `BGP-4-MQUNEXPECT: Recieved unexpected message ([dec]/[dec]) on [chars] queue`

    Explanation An unexpected but handleable event has occured.

    Recommended Action Report the issue to Customer Support

Error Message `BGP-4-MTSNOMSG: No MTS payload found on [chars] queue, opc [dec]`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-4-MTSUNKOPC: Recieved unknown MTS message on [chars] queue, opc [dec]`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

Error Message `BGP-4-NGMVPN_UNKNOWN_ROUTE_TYPE: Unknown [chars] route type [dec] received from peer [chars] [chars], ignoring it`

Explanation Unsupported route type received

Recommended Action Keep running, do nothing special

Error Message `BGP-4-NODAMPMEM: [[chars]] Unable to dampen prefix [chars] from peer [chars] due to no memory`

Explanation BGP_EXPL_NO_MEMORY

Recommended Action Keep running, do nothing special

Error Message `BGP-4-NORID: Peer [chars] sent us 0.0.0.0 as its router-id`

Explanation A BGP peer sent us an invalid router id.

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

Error Message `BGP-4-PATH_ATTR_FILTER_MATCH: discarding attribute [dec] length [dec] for peer [chars] due to matching filter`

Explanation Peer is impacted because of the match in path-attribute filter

Recommended Action Keep running, do nothing special

Error Message `BGP-4-PATH_ATTR_FILTER: path attribute filter has changed for peer [chars]. [chars]`

Explanation Peer is impacted because of the update in path-attribute filter

Recommended Action Keep running, do nothing special

Error Message `BGP-4-PFXEXCEED: [[chars]] No. of prefix received from [chars] exceeded configured limit [dec]`

Explanation A peer sent us more routes than BGP was configured to accept.

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

Error Message `BGP-4-PFXWARN: [[chars]] Number of prefixes received from [chars] reached [dec], maximum [dec]`

Explanation The number of routes sent to us by a peer exceeded the threshold at which BGP should generate a warning.

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

Error Message `BGP-4-PREFIX_MAX_PATHS_EXCEEDED: [[chars]] Prefix [chars] with [dec] paths has exceeded the maximum number of supported [dec] paths`

Explanation An abnormal number of paths in a prefix may degrade BGP's performance.

Recommended Action No special action is required.

Error Message `BGP-4-RLIMIT: Error while setting rlimit, error - [chars]`

Explanation An unexpected but handleable event has occured.

Recommended Action Keep running, do nothing special

Error Message `BGP-4-SAMERID: Peer [chars] uses same routerid as us`

Explanation A BGP peer is using the same router id as this router.

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

Error Message `BGP-4-SELF_RESTART: BGP self-restarting due to [chars][chars][chars]`

Explanation BGP process is performing a self-restart.

Recommended Action No special action is required.

Error Message `BGP-4-SLAB_HOLD: Not able to hold element from [chars] slab`

Explanation

Recommended Action Keep running, do nothing special

Error Message `BGP-4-SNMP_DEREGFAIL: Failed to deregister MIB with the SNMP agent ([chars]).`

Explanation MIB deregistration failed during shutdown.

Recommended Action Keep running, do nothing special

Error Message `BGP-4-SNMP_REGFAIL: Failed to register MIB with the SNMP agent, the BGP MIB will be unavailable. ([chars])`

Explanation MIB registration failed during startup.

Recommended Action Keep running, do nothing special

Error Message `BGP-4-SR_DUPE_LABEL: Prefixes [chars]/[dec] in table [dec] and [chars]/[dec] in table [dec] have the same label index`

Explanation Two unique prefixes should not have the same label index

Recommended Action Keep running, do nothing special

Error Message `BGP-4-TXLIST: [chars]`

Explanation An unexpected but handleable event has occured.

Recommended Action Report the issue to Customer Support

BGP-5

Error Message `BGP-5-ADJCHANGE: neighbor [chars] [chars] [chars]`

Explanation A BGP session has just been established. Or a session has just been shutdown.

Recommended Action No special action is required.

Error Message `BGP-5-BADSIG: Should not have received signal [dec]`

Explanation An unexpected but handleable event has occured.

Recommended Action Keep running, do nothing special

Error Message `BGP-5-MAXMSGLIMIT: [[chars]] Failed to send update message with prefix [chars] for peer [chars] because the msg size([dec]) exceeded the maximum limit([dec])`

Explanation BGP Update message reached the maximum limit

Recommended Action Keep running, do nothing special

Error Message `BGP-5-MEMALERT: BGP memory status changed from [chars] to [chars]`

Explanation

Recommended Action No special action is required.

Error Message `BGP-5-MTSRECV: MTS receive failed on [chars] queue: [chars]`

Explanation An unexpected but handleable event has occured.

Recommended Action Keep running, do nothing special

Error Message `BGP-5-NO_RD: VRF [chars] : RD deconfigured`

Explanation RD deconfigured from VRF.

Recommended Action No special action is required.

Error Message `BGP-5-NO_VDC_MAC: BGP process is restarting due to unavailable VDC MAC`

Explanation Exit BGP process because VDC MAC is not available yet

Recommended Action No special action is required.

Error Message `BGP-5-SHUTDOWN: BGP process [chars] administratively [chars]`

Explanation BGP protocol was administratively up/shutdown.

Recommended Action No special action is required.

BGP-6

Error Message `BGP-6-AS4AGG_INVALID: Received AS4_AGGREGATOR with invalid length [dec] in it from peer [chars]`

Explanation The peer has sent AS4_AGGREGATOR with invalid attr length which would be discarded.

Recommended Action No special action is required.

Error Message `BGP-6-AS4PATH_CONFED: Received AS4_PATH with CONFED related path segments in it from peer [chars]`

> **Explanation** The peer has sent AS4_PATH with confed based path segments which would be discarded.

> **Recommended Action** No special action is required.

Error Message `BGP-6-AS4PATH_SEGLEN: Received AS4_PATH with zero path segment length in it from peer [chars]`

> **Explanation** The peer has sent AS4_PATH with zero path segment length which would be discarded.

> **Recommended Action** No special action is required.

Error Message `BGP-6-AS4PATH_SEGTYPE: Received AS4_PATH with invalid path segment type in it from peer [chars]`

> **Explanation** The peer has sent AS4_PATH with invalid path segment type which would be discarded.

> **Recommended Action** No special action is required.

Error Message `BGP-6-BADASPATH: Long AS path [chars] received from peer [chars]: more than configured maxas-limit [dec]`

> **Explanation** The peer sent an AS path exceeding the maxas-limit.

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

Error Message `BGP-6-MAXPEER_LIMIT: Reached maximum-peer limit on the prefix peer [chars], ignoring connection request from [chars]`

> **Explanation** Session can be brought up due to maximum-peer limit

> **Recommended Action** No special action is required.

Error Message `BGP-6-MEMSTAT: Hit low memory condition - Free: [dec] MB, Min free: [dec] MB`

> **Explanation**

> **Recommended Action** No special action is required.

Error Message `BGP-6-PATH_MAXASLIMIT: [[chars]] Path for [chars] from peer [chars] found to`

```
[chars] the maxas-limit
```

Explanation

Recommended Action No special action is required.

Error Message `BGP-6-ROUTERID_RANDOM: Auto-generated random router ID [chars]`

Explanation A valid router-id could not be auto-generated. Proceeding with a random router-id value.

Recommended Action No special action is required.

Error Message `BGP-6-SRTE_ERROR: SRTE ERROR: [chars]`

Explanation Error calling SRTE API

Recommended Action Keep running, do nothing special

Error Message `BGP-6-START: BGP process [chars] startup, reason: [chars]`

Explanation The indicated BGP process has started.

Recommended Action No special action is required.

Error Message `BGP-6-ULIBUPDATE: [[chars]] Couldn't update label to ULIB for prefix [chars]`

Explanation No BGP update to ULIB because of same labels

Recommended Action No special action is required.

BGP-7

Error Message `BGP-7-LOGFILE: Successfully created debug pipes: [dec], [dec] and debug file [dec], fdmask: [hex]`

Explanation BGP's log file has been setup and created.

Recommended Action No special action is required.

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

Explanation Objstore API has failed

Recommended Action Keep running, do nothing special

EIGRP Messages

This section contains the EIGRP messages.

EIGRP-2

Error Message `EIGRP-2-ALLOC_URIB_ADD: eigrp_smalloc() failed for URIB add-route buffer`

 Explanation Failed to allocate URIB add-route buffer.

 Recommended Action Configure the network or router to decrease the number of routes, or add additional memory to the router.

Error Message `EIGRP-2-ALLOC_URIB_DEL: eigrp_smalloc() failed for URIB delete-route buffer`

 Explanation Failed to allocate URIB delete-route buffer.

 Recommended Action Configure the network or router to decrease the number of routes, or add additional memory to the router.

Error Message `EIGRP-2-API_INIT: Couldn't initialize [chars] API`

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

 Recommended Action Kill component and don't restart it

Error Message `EIGRP-2-BFD_API_FAIL: bfd_send_remove_sessions`

 Explanation Failed to send bfd remove sessions.

 Recommended Action No special action is required.

Error Message `EIGRP-2-BFD_CREATE_SESSION_FAILED: BFD Session create failed.`

 Explanation Failed to create BFD session.

 Recommended Action No special action is required.

Error Message `EIGRP-2-CIB_CREATE_FAIL: eigrp_create_cib failed for context [chars]`

Explanation Failed to create specified context.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-2-CLEANUP_DREG: Failed to deregister with [chars] during eigrp_cleanup()`

Explanation Failed to deregister with specified service during process shutdown.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-2-CLI_INIT_FAILED: cli_init() failed in eigrp_init_cli()`

Explanation EIGRP could not register with the CLI server process.

Recommended Action Kill component and don't restart it

Error Message `EIGRP-2-ERR_FREEBUF: Illegal memory free in function [chars]`

Explanation Illegal memory free detected.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-2-ERR_URIB_TID: Can't determine context from URIB table id [dec]`

Explanation Failed to determine context from URIB table id.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-2-ILLEGAL_TIMER_ID: Illegal timer-id used in mgd_timer_init_leaf(), timer-id: [dec]`

Explanation Illegal timer id was specified.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-2-ILL_FUNCCALL: Illegal call to function [chars]`

Explanation Illegal call to specified function.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-2-ILL_POLICY_TYPE: Illegal policy type in [chars]()`

Explanation Illegal policy type in specified rpm callback.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-2-ILL_WORKTYPE: Illegal work type [dec] ipigrp2_process_workq()`

Explanation Worker thread received illegal work type.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-2-IM_GET_NAME_FAILED: im_get_if_name failed for iod ([dec]) with error ([dec])`

Explanation EIGRP could not get if_name from Interface Manager

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-2-IM_REG_FAILED: im_register_client() failed in eigrp_init_im()`

Explanation EIGRP could not register with the IM process.

Recommended Action Kill component and don't restart it

Error Message `EIGRP-2-INIT: [chars] failed`

Explanation EIGRP process initialization failed.

Recommended Action Kill component and don't restart it

Error Message `EIGRP-2-IP_MCAST_JOIN_FAILED: Unable to join ip mcast group for interface: [chars]. Please unconfigure and configure it again.`

Explanation EIGRP could not join mcast group for the interface.

Recommended Action ACTION_OPERATOR_RETRY

Error Message `EIGRP-2-IP_REG_FAILED: ip_register() failed in eigrp_init_ip()`

Explanation EIGRP could not register with the IP process.

Recommended Action Kill component and don't restart it

Error Message `EIGRP-2-L3VM_SOO_NOTIF: l3vm_get_if_soo_info failed for interface [chars]`

Explanation EIGRP could not get SoO from L3VM for

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-2-MGD_TIMER_CREATE_FAIL: Failed to create managed timer [dec]`

Explanation Failed to create specified managed timer.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-2-MTSBIND: Unable to bind to MTS SAP for [chars], sap [dec]: [chars]`

Explanation EIGRP was not able to create a message queue for communication.

Recommended Action Restart component

Error Message `EIGRP-2-MTS_BIND: mts_bind() failed in binding [chars] mts_q, error [chars]`

Explanation Failed in binding to specified mts queue with error.

Recommended Action Kill component and don't restart it

Error Message `EIGRP-2-MTS_REQ_FM_STATUS: Failed in mts_register of MTS_OPC_FM_SRV_FEATURE_STATUS`

Explanation Failed to request feature status notification.

Recommended Action Kill component and don't restart it

Error Message `EIGRP-2-NO_MEMORY: Can't allocate memory in function [chars]`

Explanation Can't allocate memory in specified function.

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

Error Message `EIGRP-2-NO_SET_PRIORITY: Failed to set policy or priority`

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

Recommended Action Kill component and don't restart it

Error Message `EIGRP-2-PROCINFO_CREATE_FAIL: eigrp_procinfo creation failed`

Explanation Failed to create procinfo.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-2-PTHREAD_FAILED: [chars] failed in [chars] for thread [chars]`

Explanation EIGRP process failed to create a task thread.

Recommended Action Kill component and don't restart it

Error Message `EIGRP-2-REG_L3VM: Failed to register with l3vm`

Explanation Failed to register with the l3vm process.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-2-REG_OPCODE: Could not register opcode 0x[hex], reason [chars]`

Explanation Could not register mts opcode with reason.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-2-RLIMIT_FAILED: Couldn't set data segment size to [dec]`

Explanation EIGRP process could not set its memory resource limit, exiting.

Recommended Action Kill component and don't restart it

Error Message `EIGRP-2-RPM_L3VPN_API: RPM_L3VPN_API failed : [chars]`

Explanation EIGRP call tp RPM L3VPN API failed

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-2-SBCR_INIT: Could not initialize shared database client, rc=0x[hex] [[chars]]`

Explanation Failed to initialize shared database client with return error code.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-2-TIMER_CREATE_FAIL: Failed to create [chars] active timer`

Explanation Failed to create specified active timer.

Recommended Action Kill component and don't restart it

Error Message `EIGRP-2-TIMER_SET_INIT: Couldn't init [chars] active timer set`

Explanation EIGRP failed to initialize timer resource.

Recommended Action Kill component and don't restart it

Error Message `EIGRP-2-U6RIB_REGISTER: EIGRP could not register with the U6RIB`

Explanation At initialization time, EIGRP could not register with the U6RIB process.

Recommended Action Kill component and don't restart it

Error Message `EIGRP-2-URIB_ACK_ERROR: URIB ack not processed for transaction id [dec]`

Explanation EIGRP could not find the xid for URIB ack

Recommended Action No special action is required.

Error Message `EIGRP-2-URIB_ADD_ROUTE: urib_add_route() failed`

Explanation Failed to add routes to URIB.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-2-URIB_REDIST_LIMIT_HIT: Redistribute maximum-prefix limit reached: [dec].`

Explanation EIGRP has reached the configured redistribute maximum-prefix limit.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-2-URIB_REDIST_LIMIT_WARNING: Redistribute threshold limit reached: [dec]%.`

Explanation EIGRP has reached the configured redistribute maximum-prefix threshold.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-2-URIB_REGISTER: EIGRP could not register with the URIB`

Explanation At initialization time, EIGRP could not register with the URIB process.

Recommended Action Kill component and don't restart it

Error Message `EIGRP-2-URIB_RT_MOD_INIT: URIB_RT_MOD_INIT failed`

Explanation EIGRP call tp URIB_RT_MOD_INIT API failed

Recommended Action Kill component and don't restart it

Error Message `EIGRP-2-URIB_SEND_BUFFER: urib_rt_mod_send() failed`

Explanation Failed to send add/delete buffer to URIB. The RIB and topology table might be inconsistent. Try restarting EIGRP to clear the issue.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-2-VERIFY_PTAG: Could not verify process tag with sysmgr`

Explanation Could not verify process tag with sysmgr

Recommended Action Kill component and don't restart it

EIGRP-3

Error Message `EIGRP-3-ANCHORCOUNT_DUAL: Anchor count negative`

Explanation A software or hardware error occurred.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-3-BADCOUNT_DUAL: Route [chars], [dec] successors, [dec] rdbs`

Explanation A software or hardware error occurred.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-3-BFD_SEND_AUTO_EXPIRY: Unable to start BFD staling, error [chars]`

Explanation EIGRP BFD staling API failed

Recommended Action Dump core, then restart component

Error Message `EIGRP-3-BUFFER_OVERFLOW: Buffer overflow: [chars]`

Explanation Buffer overflow while writing EIGRP community

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-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 `EIGRP-3-DUP_ADDR: Duplicate address [chars] detected on interface [chars]`

Explanation The same IP address was configured on two EIGRP routers on the same subnet.

Recommended Action ACTION_EIGRP_DUP_ADDR

Error Message `EIGRP-3-FEATURE_STATUS: [chars] status error: 0x[hex]`

Explanation FM get feature status failed

Recommended Action Keep running, do nothing special

Error Message `EIGRP-3-GR_OFF_DURING_UPG: Attempt to upgrade system with graceful-restart off.`

Explanation Attempt to upgrade system with graceful-restart off.

Recommended Action ACTION_EIGRP_ENABLE_GR

Error Message `EIGRP-3-INTERNAL_DUAL: [chars] [dec]: Internal Error`

Explanation EIGRP internal DUAL finite state error.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-3-MTSDROP: MTS drop failed on [chars] queue: [chars]`

Explanation EIGRP_EXPL_UNEXPECTED_EVENT

Recommended Action Report the issue to Customer Support

Error Message `EIGRP-3-MTSRECV: MTS receive failed on [chars] queue: [chars]`

Explanation EIGRP_EXPL_UNEXPECTED_EVENT

Recommended Action Keep running, do nothing special

Error Message `EIGRP-3-MTSSEND: MTS send() error to SAP [dec], opcode [dec]: [chars]`

Explanation EIGRP_EXPL_UNEXPECTED_EVENT

Recommended Action Report the issue to Customer Support

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

Explanation EIGRP called a MTS API which returned an error.

Recommended Action ACTION_EIGRP_SEND_LOG

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

Explanation EIGRP called a MTS API which returned an error.

Recommended Action ACTION_EIGRP_SEND_LOG

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

Explanation EIGRP was unable to register an MTS notification

Recommended Action No special action is required.

Error Message `EIGRP-3-MULTIFLOW_DUAL: Flow control error, [chars], on [chars]`

Explanation A software or hardware error occurred.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-3-NOHANDLE_DUAL: Handle [dec] is not allocated in pool.`

Explanation A software or hardware error occurred.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-3-PEERSEXIST_DUAL: [dec] peers exist on IIDB [chars]`

Explanation A software or hardware error occurred.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-3-PFXLIMITTHR_DUAL: [chars] [dec] [chars] reached prefix limit threshold`

Explanation Prefix limit threshold reached.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-3-PFXLIMIT_DUAL: [chars] [dec] [chars] prefix limit exceeded`

Explanation Prefix limit threshold exceeded.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-3-PROBESEQ_DUAL: Bad probe sequence [dec] from [chars], expecting [dec]`

Explanation A software or hardware error occurred.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-3-RDBLEFT_DUAL: dest [chars], nexthop [chars] ([chars]), origin [chars]`

Explanation A software or hardware error occurred.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-3-REFCOUNT_DUAL: Negative refcount in pakdesc [hex]`

Explanation A software or hardware error occurred.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-3-RPM_REDIST_INIT: Couldn't initialize redistribution API for [chars]`

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

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-3-SIA_DUAL: Route [chars] stuck-in-active state in [chars] [dec]. Cleaning up`

Explanation EIGRP route stuck-in-active, cleanup happened.

Recommended Action No special action is required.

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

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

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-3-SYSMGR_QUERY: Sysmgr state query failed for uuid [dec], tag [chars]`

Explanation A software or hardware error occurred.

Recommended Action ACTION_EIGRP_SEND_LOG

Error Message `EIGRP-3-UNKNOWN_MTYPE: Unknown mtype: [dec]/[dec] while processing [chars]`

Explanation EIGRP process received unknown Interprocess message, dropped.

Recommended Action No special action is required.

Error Message `EIGRP-3-UNKTIMER_DUAL: Unknown timer type [dec] expiration`

Explanation A software or hardware error occurred.

Recommended Action ACTION_EIGRP_SEND_LOG

EIGRP-4

Error Message `EIGRP-4-MQUNEXPECT: Recieved unexpected message ([dec]/[dec]) on [chars] queue`

Explanation EIGRP_EXPL_UNEXPECTED_EVENT

Recommended Action Report the issue to Customer Support

Error Message `EIGRP-4-MTSNOMSG: No MTS payload found on [chars] queue, opc [dec]`

Explanation EIGRP_EXPL_UNEXPECTED_EVENT

Recommended Action Report the issue to Customer Support

Error Message `EIGRP-4-MTSUNKOPC: Received unknown MTS message on [chars] queue, opc [dec]`

Explanation EIGRP_EXPL_UNEXPECTED_EVENT

Recommended Action Report the issue to Customer Support

Error Message `EIGRP-4-PICOSEC_WARN: ip delay eigrp command accepted but did not take effect in 32 bit version mode`

Explanation The command was issued when in 32bit metric version mode

Recommended Action No special action is required.

EIGRP-5

Error Message `EIGRP-5-EVENT_DUAL: [chars], [chars]`

    Explanation DUAL event log message.

    Recommended Action No special action is required.

Error Message `EIGRP-5-HA_INFO: EIGRP HA info msg - [chars]`

    Explanation EIGRP received a HA info msg.

    Recommended Action No special action is required.

Error Message `EIGRP-5-NBRCHANGE_DUAL: [chars] [dec]: Neighbor [chars] ([chars]) is [chars]: [chars]`

    Explanation A neighbor went up or down.

    Recommended Action No special action is required.

Error Message `EIGRP-5-SHUTDOWN: Shutting down EIGRP process - [chars]`

    Explanation EIGRP received a shutdown request.

    Recommended Action No special action is required.

Error Message `EIGRP-5-WRONG_SUBNET: Neighbor [chars] detected on interface [chars] not on same subnet [chars]`

    Explanation IP address configured on two EIGRP routers is NOT on the same subnet.

    Recommended Action ACTION_EIGRP_SEND_LOG

EIGRP-6

Error Message `EIGRP-6-UNEQUAL_METRICS: EIGRP: Unequal metric ([chars]), delay [[dec]/[dec]], bandwidth [[dec]/[dec]] , mtu [[dec]/[dec]], hopcount [[dec]/[dec]], reliability [[dec]/[dec]], load [[dec]/[dec]]`

    Explanation Unequal metrics detected and log-neighbor-warnings is enabled.

    Recommended Action ACTION_EIGRP_SEND_LOG

HEAP Messages

This section contains the HEAP messages.

HEAP-3

Error Message `HEAP-3-HEAP_ERROR: [chars]`

    Explanation Heap routing library error

    Recommended Action No special action is required.

HEAP-4

Error Message `HEAP-4-HEAP_WARNING: [chars]`

    Explanation Heap malloc warning

    Recommended Action No special action is required.

ICMPV6 Messages

This section contains the ICMPV6 messages.

ICMPV6-2

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

Error Message `ICMPV6-2-REMOTE_STATIC_EXISTS: Remote static exists for,IPv6 = [chars], VLAN = [dec], IOD = [dec], Interface = [chars]`

Explanation This warning comes when user enter a static ipv6 neighbor entry. This warning indicates that there is already a remote static MAC IP present for this same MAC IP

Recommended Action No special action is required.

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 retrial.

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.

IGMP Messages

This section contains the IGMP messages.

IGMP-2

Error Message `IGMP-2-STARTUP_DEBUG: [chars] [dec]`

Explanation An unrecoverable software error has occurred during _igmp_ startup.

Recommended Action No special action is required.

Error Message `IGMP-2-STARTUP_FAILURE: Startup failure: [chars]`

Explanation An unrecoverable software error has occurred during _igmp_ startup.

Recommended Action No special action is required.

IGMP-3

Error Message `IGMP-3-ALREADY_RUNNING: _IGMP_ already running, exiting`

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

Recommended Action No special action is required.

Error Message `IGMP-3-API_FAILED: [chars] failed in [chars]`

    Explanation _IGMP_ process failed in invoking an API.

    Recommended Action No special action is required.

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

    Explanation _IGMP_ process failed in an AVL-tree manipulation.

    Recommended Action No special action is required.

Error Message `IGMP-3-BAD_MSG: Invalid [chars] message received from [chars]`

    Explanation _IGMP_ received an invalid MTS message.

    Recommended Action Dump core, then restart component

Error Message `IGMP-3-BF_CREATE: Couldn't create bitfield for [chars]`

    Explanation _IGMP_ failed to create bitfield resource.

    Recommended Action Dump core, then restart component

Error Message `IGMP-3-BITFIELD_FAILED: [chars] failed in [chars]`

    Explanation _IGMP_ process could not execute the bitfield operation.

    Recommended Action Dump core, then reload the stack

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

    Explanation _IGMP_ process failed to initialize conditional-variable resource.

    Recommended Action Dump core, then restart component

Error Message `IGMP-3-ENCAP_DEL: Couldn't delete encap entry for [dec] (*, [chars]) ([chars])`
`due to [chars] from snooping database`

    Explanation _IGMP_ failed to delete the snooping-db encap entry.

    Recommended Action No special action is required.

Error Message `IGMP-3-FEX_MRD_ERROR: Router behind FEX port [chars] is not supported by the`

hardware

> **Explanation** _IGMP_ snooping could not process PIM hello from the fex port since it is not supported

> **Recommended Action** No special action is required.

Error Message `IGMP-3-FEX_QUERY_ERROR: Router behind FEX port [chars] is not supported by the hardware`

> **Explanation** _IGMP_ snooping could not process query from the fex port since it is not supported

> **Recommended Action** No special action is required.

Error Message `IGMP-3-GETRLIMIT_FAILED: Address Space size retrieval failed, reason [chars]`

> **Explanation** _IGMP_ process could not retrieve memory resource limit

> **Recommended Action** No special action is required.

Error Message `IGMP-3-GET_MAC_ADDR: [chars] failed in [chars] with error [chars]`

> **Explanation** _IGMP_ process failed in getting mac addr

> **Recommended Action** No special action is required.

Error Message `IGMP-3-GROUP_DEL: Couldn't delete group entry for [chars] ([chars]) due to [chars] from snooping database`

> **Explanation** _IGMP_ failed to delete the snooping-db group entry.

> **Recommended Action** No special action is required.

Error Message `IGMP-3-GROUP_LIMIT: Exceeded multicast group limit ([dec]), ignoring new reports`

> **Explanation** Exceeded the multicast group limit

> **Recommended Action** No special action is required.

Error Message `IGMP-3-GROUP_LOW_THRESH: Multicast group count below [dec], group joins re-enabled`

> **Explanation** Multicast group count below threshold

> **Recommended Action** No special action is required.

Error Message `IGMP-3-GROUP_PREFIX_IGNORE: Too many Groups in Group Prefix [chars]. Specify the` `prefix within /24`

Explanation GPrefix yiels too many Groups

Recommended Action No special action is required.

Error Message `IGMP-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 `IGMP-3-HA_DB_REBUILD: HA run-time database buildup [chars]`

Explanation _IGMP_ -SNOOP stateful restart status

Recommended Action No special action is required.

Error Message `IGMP-3-IGMP_INIT: _IGMP_ init failed: [chars]`

Explanation _IGMP_ process initialization failed.

Recommended Action Dump core, then restart component

Error Message `IGMP-3-IM_API_FAILED: [chars] failed in [chars]`

Explanation IM API failed in MCEC _IGMP_ Snoop.

Recommended Action No special action is required.

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

Explanation Process failed in invoking _IGMP_ API.

Recommended Action No special action is required.

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

Explanation Process failed to access the _IGMP_ MTS-queue.

Recommended Action No special action is required.

Error Message `IGMP-3-MALLOC_FAILED: Malloc failed in [chars] ([dec]) size:%zd`

Explanation _IGMP_ process is out of free memory.

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

Error Message `IGMP-3-MFDM_NO_BUF: Cannot find MFDM buffer from route-ack for xid 0x[hex]`

Explanation _IGMP_ 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 `IGMP-3-MTS_BIND: Error returned from mts_bind() for [chars] mts-q, errno: [chars]`

Explanation _IGMP_ called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message `IGMP-3-MTS_DROP: Error returned from mts_drop() for [chars] queue, errno: [chars]`

Explanation _IGMP_ called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message `IGMP-3-MTS_INIT: Error returned from mts_callback_handler_set() for [chars] queue, errno: [chars]`

Explanation _IGMP_ called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message `IGMP-3-MTS_RECV: Error returned from mts_recv() for [chars] queue, errno: [chars]`

Explanation _IGMP_ called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message `IGMP-3-MTS_SEND: Error returned from mts_send() for [chars] queue, errno: [chars]`

Explanation _IGMP_ called a MTS API which returned an error.

Recommended Action Dump core, then restart component

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

Explanation _IGMP_ process failed to initialize mutex system resource.

Recommended Action Dump core, then restart component

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

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

Recommended Action No special action is required.

Error Message `IGMP-3-NO_SHUTDOWN: Unable to shutdown [chars]`

Explanation _IGMP_ process unable to shut itself down.

Recommended Action Dump core, then restart component

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

Explanation _IGMP_ process failed to create a task thread.

Recommended Action Dump core, then restart component

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

Explanation _IGMP_ failed to update the local snooping-db entry.

Recommended Action No special action is required.

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

Explanation _IGMP_ failed to delete the local snooping-db entry.

Recommended Action No special action is required.

Error Message `IGMP-3-PULLUP_FAILED: m_pullup() of [dec] bytes failed in [chars]`

Explanation _IGMP_ process failed to process the packet, dropping it.

Recommended Action No special action is required.

Error Message `IGMP-3-QUERIER_START_FAILED: [chars] failed in [chars]`

Explanation _IGMP_ snoop failed to start the querier.

Recommended Action No special action is required.

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

Explanation Exceeded the reserve-limit for interface

Recommended Action No special action is required.

Error Message `IGMP-3-RESTART_REASON: _IGMP_ process has restarted, restart reason: [chars]`

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

Recommended Action No special action is required.

Error Message `IGMP-3-SETRLIMIT_FAILED: Address space size increment of [dec] failed, reason [chars]`

Explanation _IGMP_ process could not set itself memory resource limit

Recommended Action No special action is required.

Error Message `IGMP-3-SNOOP_CONFIG_ERROR: SNOOP: Couldn't configure [chars], please configure [chars] first.`

Explanation _IGMP_ snooping could not configure a parameter because of dependencies

Recommended Action No special action is required.

Error Message `IGMP-3-SOURCE_DEL: Couldn't delete source entry for ([chars], [chars]) ([chars]) due to [chars] from snooping database`

Explanation _IGMP_ failed to delete the snooping-db source entry.

Recommended Action No special action is required.

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

Explanation Exceeded the state-limit for interface

Recommended Action No special action is required.

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

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

Recommended Action Dump core, then restart component

Error Message `IGMP-3-TIMER_FAILED: [chars] failed for [chars] in [chars]`

Explanation _IGMP_ process failed to configure a timer event.

Recommended Action Dump core, then restart component

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

Explanation _IGMP_ failed to create txlist resource.

Recommended Action Dump core, then restart component

Error Message `IGMP-3-UNKNOWN_MFDM_OPC: igmp_snoop_mfdm_main(): reeceived unknown opcode [dec]`

Explanation _IGMP_ process received unknown Interprocess message from MFDM, dropped.

Recommended Action No special action is required.

Error Message `IGMP-3-UNKNOWN_MTYPE: Unknown mtype: [dec]/[dec] in [chars], opc:[dec], from:[chars]`

Explanation _IGMP_ process received unknown Interprocess message, dropped.

Recommended Action No special action is required.

Error Message `IGMP-3-VLAN_DEL: Couldn't delete vlan entry for [chars] due to [chars] from snooping database`

Explanation _IGMP_ failed to delete the snooping-db vlan entry.

Recommended Action No special action is required.

Error Message `IGMP-3-VLAN_EXISTS: SNOOP: Couldn't create [chars], already esists`

Explanation _IGMP_ failed to create vlan resource.

Recommended Action No special action is required.

Error Message `IGMP-3-VRF_CREATE: _IGMP_ VRF creation failed for vrf [chars]`

Explanation _IGMP_ process could not create the VRF context.

Recommended Action Dump core, then reload the stack

Error Message `IGMP-3-vPC_API_FAILED: [chars][chars]`

Explanation API failed in vPC _IGMP_ snoop module.

Recommended Action No special action is required.

Error Message `IGMP-3-vPC_ERROR: [chars][chars]`

Explanation VPC related messages.

Recommended Action No special action is required.

IGMP-4

Error Message `IGMP-4-API_NO_SUCCESS: [chars] did not succeed in [chars]; Reason: [chars]`

Explanation _IGMP_ process failed in invoking an API.

Recommended Action No special action is required.

Error Message `IGMP-4-HOST_SG_PROXY_LIMIT_FULL: _IGMP_ host sg-proxy route limit(1000) reached`

Explanation The _IGMP_ host sg-proxy is more than the limit.

Recommended Action No special action is required.

Error Message `IGMP-4-LOCAL_JOIN_GRP: _ip_af_ _igmp_ join-group command configured for interface [chars]. All multicast traffic will be sent to the CPU and not forwarded to receivers.`

Explanation Local _IGMP_ join-group has been configured. The device CPU must be able to handle the traffic generated by using this command. Because of CPU load constraints, using this command, especially in any form of scale, is not recommended.

Recommended Action Consider using _ip_af_ _igmp_ static-oif command instead.

Error Message `IGMP-4-QUERY_DROP_ON_SAT_PORT: Since router ports on fexes is not supported, dropping queries received on fex interface [chars].`

Explanation Since, having router ports on fexes is not supported, we drop queries received on fex interfaces.

Recommended Action No special action is required.

Error Message `IGMP-4-SYSTEM_RESOURCE_THRESHOLD_WARNING: System resource usage for [chars] is above 84%`

Explanation _IGMP_ entries reached 84% of Threshold.

Recommended Action No special action is required.

IGMP-5

Error Message `IGMP-5-IGMP_DATA_LEN: IP data len [dec] invalid in [chars]`

Explanation IP data len invalid.

Recommended Action No special action is required.

Error Message `IGMP-5-IGMP_IP_LEN: IP packet len [dec] invalid in [chars]`

Explanation IP Packet len invalid.

Recommended Action No special action is required.

IGMP-6

Error Message `IGMP-6-AS_LIMIT_INCREASED: Address space size for [chars] increased [dec] times`

Explanation _IGMP_ process incremented AS memory resource limit

Recommended Action No special action is required.

Error Message `IGMP-6-HA_SEQNO_SYNC: HA sequence number sync to standby failed, [chars]`

Explanation _IGMP_ -SNOOP HA sequence number sync to standby failed

Recommended Action No special action is required.

Error Message `IGMP-6-HA_STATEFUL: Stateful HA [chars]`

Explanation _IGMP_ -SNOOP stateful restart status

Recommended Action No special action is required.

Error Message `IGMP-6-HA_SYNC: HA sync to standby failed, [chars]`

    Explanation _IGMP_ -SNOOP HA sync message to standby failed

    Recommended Action No special action is required.

Error Message `IGMP-6-NO_FREE_BUF: Could not get free buffers for [chars] in [chars]`

    Explanation Failed to get free buffers.

    Recommended Action No special action is required.

Error Message `IGMP-6-RECEIVE_QUERY: Received [chars] interface [chars] from [chars]`

    Explanation _IGMP_ version mismatch, query still processed.

    Recommended Action No special action is required.

Error Message `IGMP-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 `IGMP-6-RESTART_SHUTDOWN: _IGMP_ shutting self down via restart command`

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

    Recommended Action No special action is required.

Error Message `IGMP-6-SHUTDOWN: _IGMP_ shutting self down`

    Explanation _IGMP_ process is shutting itself down.

    Recommended Action No special action is required.

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

    Explanation _IGMP_ process received unknown Interprocess message, dropped.

    Recommended Action No special action is required.

Error Message `IGMP-6-vPC_INFO: [chars][chars]`

    Explanation VPC related messages.

    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-ADDR_OVERLAP: IPv6 Address Overlap: Address configured on interface [chars] overlaps with the one configured on [chars]`

Explanation Overlapping address configured

Recommended Action No special action is required.

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 opcde [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-SUBNET_OVERLAP: IPv6 Subnet Overlap: Subnet configured on interface [chars] overlaps with the one configured on [chars]`

Explanation Overlapping subnet configured

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-CLIENT_ACK_FAIL: [chars], client_name : [chars], uuid : [hex] (hex), protocol : [dec], SAP : [dec], err : [chars]`

Explanation Failed to send ACK back to client

Recommended Action No special action is required.

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 occured 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_recv(), 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 occured 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 occured 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 opcde [dec], dropping it`

   Explanation IP recieved 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 avialable 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: Dergister 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-SWID_UPDATE: Switch-ID table update failed for [chars]`

    Explanation ISIS process failed to update Switch-ID database.

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

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 IIH - 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 procss 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_MTSSEND_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-CONFCHECK: 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-INTERROR: 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 opearation 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-TLVERROR: TLV Converion 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.

MCASTFWDV6 Messages

This section contains the MCASTFWDV6 messages.

MCASTFWDV6-2

Error Message `MCASTFWDV6-2-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 `MCASTFWDV6-2-STARTUP_FAILURE: Startup failure: [chars]`

Explanation An unrecoverable software error has occurred during MCASTFWD startup.

Recommended Action No special action is required.

MCASTFWDV6-3

Error Message `MCASTFWDV6-3-ALREADY_RUNNING: MCASTFWD already running, exiting`

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

Recommended Action No special action is required.

Error Message `MCASTFWDV6-3-API_FAILED: [chars] failed in [chars]`

Explanation MCASTFWD process failed in invoking an API.

Recommended Action No special action is required.

Error Message `MCASTFWDV6-3-AVL_ERROR: AVL-tree operation [chars] failed for [chars]`

Explanation MCASTFWD process failed in an AVL-tree manipulation.

Recommended Action No special action is required.

Error Message `MCASTFWDV6-3-BAD_MSG: Invalid [chars] message received from [chars]`

Explanation MCASTFWD received an invalid MTS message.

Recommended Action Dump core, then restart component

Error Message `MCASTFWDV6-3-BF_CREATE: Couldn't create bitfield for [chars]`

Explanation MCASTFWD failed to create bitfield resource.

Recommended Action Dump core, then restart component

Error Message `MCASTFWDV6-3-BITFIELD_FAILED: [chars] failed in [chars]`

Explanation MCASTFWD process could not execute the bitfield operation.

Recommended Action Dump core, then reload the stack

Error Message `MCASTFWDV6-3-CV_INIT: Couldn't init cond var [chars]`

Explanation MCASTFWD process failed to initialize conditional-variable resource.

Recommended Action Dump core, then restart component

Error Message `MCASTFWDV6-3-GETRLIMIT_FAILED: Address Space size retrieval failed, reason [chars]`

Explanation MCASTFWD process could not retrieve memory resource limit

Recommended Action No special action is required.

Error Message `MCASTFWDV6-3-GROUP_PREFIX_IGNORE: Too many Groups in Group Prefix [chars]. Specify the prefix within /24`

Explanation GPrefix yields too many Groups

Recommended Action No special action is required.

Error Message `MCASTFWDV6-3-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 `MCASTFWDV6-3-HA_DB_REBUILD: HA run-time database buildup [chars]`

Explanation MCASTFWD-SNOOP stateful restart status

Recommended Action No special action is required.

Error Message `MCASTFWDV6-3-IM_API_FAILED: [chars] failed in [chars]`

Explanation IM API failed in MCEC MCASTFWD Snoop.

Recommended Action No special action is required.

Error Message `MCASTFWDV6-3-LIB_API_FAILED: [chars] failed in [chars]`

Explanation Process failed in invoking MCASTFWD API.

Recommended Action No special action is required.

Error Message `MCASTFWDV6-3-LIB_API_INIT: Couldn't initialize [chars] API`

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

Recommended Action No special action is required.

Error Message `MCASTFWDV6-3-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 `MCASTFWDV6-3-LIB_MTS_FAILED: [chars] failed in [chars], errno: [chars]`

Explanation Process failed to access the MCASTFWD MTS-queue.

Recommended Action No special action is required.

Error Message `MCASTFWDV6-3-LIB_SM_CLOSE: Couldn't close shm segment [chars]`

Explanation MCASTFWD process failed to remove shared memory resource.

Recommended Action No special action is required.

Error Message `MCASTFWDV6-3-LIB_SM_OPEN: Couldn't open shm segment [chars]`

Explanation MCASTFWD process failed to initialize shared memory resource.

Recommended Action Dump core, then restart component

Error Message `MCASTFWDV6-3-MALLOC_FAILED: [chars] failed in [chars]`

Explanation MCASTFWD process is out of free memory.

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

Error Message `MCASTFWDV6-3-MCASTFWD_INIT: MCASTFWD init failed: [chars]`

Explanation MCASTFWD process initialization failed.

Recommended Action Dump core, then restart component

Error Message `MCASTFWDV6-3-MFDM_NO_BUF: Cannot find MFDM buffer from route-ack for xid 0x[hex]`

Explanation MCASTFWD 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 `MCASTFWDV6-3-MFWD_NO_MEM: Failed to allocate private memory for [chars]`

Explanation The MCASTFWD process has run out of private memory

Recommended Action Report the issue to Customer Support

Error Message `MCASTFWDV6-3-MTS_BIND: Error returned from mts_bind() for [chars] mts-q, errno: [chars]`

Explanation MCASTFWD called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message `MCASTFWDV6-3-MTS_DROP: Error returned from mts_drop() for [chars] queue, errno: [chars]`

> **Explanation** MCASTFWD called a MTS API which returned an error.

> **Recommended Action** Dump core, then restart component

Error Message `MCASTFWDV6-3-MTS_INIT: Error returned from mts_callback_handler_set() for [chars] queue, errno: [chars]`

> **Explanation** MCASTFWD called a MTS API which returned an error.

> **Recommended Action** Dump core, then restart component

Error Message `MCASTFWDV6-3-MTS_RECV: Error returned from mts_recv() for [chars] queue, errno: [chars]`

> **Explanation** MCASTFWD called a MTS API which returned an error.

> **Recommended Action** Dump core, then restart component

Error Message `MCASTFWDV6-3-MTS_SEND: Error returned from mts_send() for [chars] queue, errno: [chars]`

> **Explanation** MCASTFWD called a MTS API which returned an error.

> **Recommended Action** Dump core, then restart component

Error Message `MCASTFWDV6-3-MUTEX_INIT: Couldn't init mutex [chars]`

> **Explanation** MCASTFWD process failed to initialize mutex system resource.

> **Recommended Action** Dump core, then restart component

Error Message `MCASTFWDV6-3-NO_MBUF: Failed to allocate mbuf [chars]`

> **Explanation** The MCASTFWD process has run out of network buffers

> **Recommended Action** Report the issue to Customer Support

Error Message `MCASTFWDV6-3-NO_SET_PRIORITY: Failed to set policy or priority`

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

Recommended Action No special action is required.

Error Message `MCASTFWDV6-3-NO_SHUTDOWN: Unable to shutdown [chars]`

Explanation MCASTFWD process unable to shut itself down.

Recommended Action Dump core, then restart component

Error Message `MCASTFWDV6-3-NO_SH_MEM: Failed to allocate shared memory [chars]`

Explanation The MCASTFWD process has run out of shared memory

Recommended Action Report the issue to Customer Support

Error Message `MCASTFWDV6-3-PTHREAD_FAILED: [chars] failed in [chars] for thread [chars]`

Explanation MCASTFWD process failed to create a task thread.

Recommended Action Dump core, then restart component

Error Message `MCASTFWDV6-3-PT_ADD: Couldn't add element to PT [chars]`

Explanation MCASTFWD failed to update the local snooping-db entry.

Recommended Action No special action is required.

Error Message `MCASTFWDV6-3-PT_DEL: Couldn't delete element from PT [chars]`

Explanation MCASTFWD failed to delete the local snooping-db entry.

Recommended Action No special action is required.

Error Message `MCASTFWDV6-3-PULLUP_FAILED: m_pullup() of [dec] bytes failed in [chars]`

Explanation MCASTFWD process failed to process the packet, dropping it.

Recommended Action No special action is required.

Error Message `MCASTFWDV6-3-QUERIER_START_FAILED: [chars] failed in [chars]`

Explanation MCASTFWD snoop failed to start the querier.

Recommended Action No special action is required.

Error Message `MCASTFWDV6-3-RDLOCK_ASSERT: [chars]:[dec]: Assert, read-lock not acquired`

Explanation Caller Failed to get MCASTFWD Shared Memory read lock

Recommended Action No special action is required.

Error Message `MCASTFWDV6-3-RESERVE_LIMIT: Exceeded reserve-limit for interface [chars] - dropping`

Explanation Exceeded the reserve-limit for interface

Recommended Action No special action is required.

Error Message `MCASTFWDV6-3-RESTART_REASON: MCASTFWD process has restarted, restart reason: [chars]`

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

Recommended Action No special action is required.

Error Message `MCASTFWDV6-3-SETRLIMIT_FAILED: Address space size increment of [dec] failed, reason [chars]`

Explanation MCASTFWD process could not set itself memory resource limit

Recommended Action No special action is required.

Error Message `MCASTFWDV6-3-SLAB_CREATE: Slab alloc of type [chars] failed`

Explanation MCASTFWD process failed to allocate Slab memory.

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

Error Message `MCASTFWDV6-3-SMALLOC: Shared mem malloc (%zu) failed in [chars]`

Explanation MCASTFWD process is out of free shared memory.

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

Error Message `MCASTFWDV6-3-STATE_LIMIT: Exceeded state-limit for interface [chars] - dropping`

Explanation Exceeded the state-limit for interface

Recommended Action No special action is required.

Error Message `MCASTFWDV6-3-SYSMGR_DISPATCH: Error returned from sysmgr_dispatch(), errno: [chars]`

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

Recommended Action Dump core, then restart component

Error Message `MCASTFWDV6-3-TIMER_FAILED: [chars] failed for [chars] in [chars]`

Explanation MCASTFWD process failed to configure a timer event.

Recommended Action Dump core, then restart component

Error Message `MCASTFWDV6-3-TXLIST_CREATE: Couldn't create txlist for [chars]`

Explanation MCASTFWD failed to create txlist resource.

Recommended Action Dump core, then restart component

Error Message `MCASTFWDV6-3-UNKNOWN_MTYPE: Unknown mtype: [dec]/[dec] in [chars] with opcode [dec]`

Explanation MCASTFWD process received unknown Interprocess message, dropped.

Recommended Action No special action is required.

Error Message `MCASTFWDV6-3-VLAN_EXISTS: SNOOP: Couldn't create [chars], already esists`

Explanation MCASTFWD failed to create vlan resource.

Recommended Action No special action is required.

Error Message `MCASTFWDV6-3-VRF_CREATE: MCASTFWD VRF creation failed for vrf [chars]`

Explanation MCASTFWD process could not create the VRF context.

Recommended Action Dump core, then reload the stack

Error Message `MCASTFWDV6-3-vPC_API_FAILED: [chars][chars]`

Explanation API failed in vPC MCASTFWD snoop module.

Recommended Action No special action is required.

Error Message `MCASTFWDV6-3-vPC_ERROR: [chars][chars]`

    Explanation VPC related messages.

    Recommended Action No special action is required.

MCASTFWDV6-6

Error Message `MCASTFWDV6-6-AS_LIMIT_INCREASED: Address space size for [chars] increased [dec] times`

    Explanation MCASTFWD process incremented AS memory resource limit

    Recommended Action No special action is required.

Error Message `MCASTFWDV6-6-HA_SEQNO_SYNC: HA sequence number sync to standby failed, [chars]`

    Explanation MCASTFWD-SNOOP HA sequence number sync to standby failed

    Recommended Action No special action is required.

Error Message `MCASTFWDV6-6-HA_STATEFUL: Stateful HA [chars]`

    Explanation MCASTFWD-SNOOP stateful restart status

    Recommended Action No special action is required.

Error Message `MCASTFWDV6-6-HA_SYNC: HA sync to standby failed, [chars]`

    Explanation MCASTFWD-SNOOP HA sync message to standby failed

    Recommended Action No special action is required.

Error Message `MCASTFWDV6-6-RECEIVE_QUERY: Received [chars] interface [chars] from [chars]`

    Explanation MCASTFWD version mismatch, query still processed.

    Recommended Action No special action is required.

Error Message `MCASTFWDV6-6-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 `MCASTFWDV6-6-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 `MCASTFWDV6-6-RESTART_SHUTDOWN: MCASTFWD shutting self down via restart command`

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

Recommended Action No special action is required.

Error Message `MCASTFWDV6-6-SHUTDOWN: MCASTFWD shutting self down`

Explanation MCASTFWD process is shutting itself down.

Recommended Action No special action is required.

Error Message `MCASTFWDV6-6-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 `MCASTFWDV6-6-UNKNOWN_OPC: Received unknown mts opcode [dec]`

Explanation MCASTFWD process received unknown Interprocess message, dropped.

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-CONF_CHECK: Failed to [chars] MSDP confcheck capability with error: [chars]`

Explanation MSDP 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 mrib_register_internal()`

Explanation MRIB process cannot register the protocol as it has run out of PIB indices.

Recommended Action Dump core, then reload the stack

Error Message `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.

NGMVPN Messages

This section contains the NGMVPN messages.

NGMVPN-2

Error Message `NGMVPN-2-STARTUP_DEBUG: [chars]`

    Explanation NGMVPN Startup debug

    Recommended Action Dump core, then restart component

Error Message `NGMVPN-2-STARTUP_FAILURE: Startup failure: [chars]`

    Explanation An unrecoverable software error has occurred during NGMVPN startup.

    Recommended Action Reload the stack

NGMVPN-3

Error Message `NGMVPN-3-API_FAILED_GET_CONTEXT: In func: [chars], failed to retrieve ncib`

Explanation No ncib found

Recommended Action No special action is required.

Error Message `NGMVPN-3-API_FAILED: [chars] failed in [chars]`

Explanation NGMVPN process failed in invoking an API.

Recommended Action No special action is required.

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

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

Recommended Action No special action is required.

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

Explanation MCASTFWD process failed in an AVL-tree manipulation.

Recommended Action No special action is required.

Error Message `NGMVPN-3-BD_TO_IF_INDEX_ERR: Could not get if_index for sw_bd. error: [chars] errorno 0x[hex]`

Explanation Trying to get if_index for sw_bd

Recommended Action No special action is required.

Error Message `NGMVPN-3-BF_CREATE: Bitfield creation failed for [chars]`

Explanation NGMVPN called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message `NGMVPN-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 `NGMVPN-3-CONCURRENT_DOWNLOAD_REQ: client [chars] sent a download req when the previous one hasn't finished for vrf: [chars]`

Explanation NGMVPN process received a download req when the previous one hasn't finished

Recommended Action No special action is required.

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

Explanation NGMVPN process failed to initialize conditional-variable resource.

Recommended Action Dump core, then restart component

Error Message `NGMVPN-3-DELETE_ERR: Error while deleting: [chars]`

Explanation Could not delete an entry

Recommended Action No special action is required.

Error Message `NGMVPN-3-FABRIC_MROUTE_NOT_FOUND: In func: [chars], Could not add simulated join`

Explanation Could not add simulated join

Recommended Action No special action is required.

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

Explanation NGMVPN could not process the disable-req from FM

Recommended Action Dump core, then restart component

Error Message `NGMVPN-3-IF_INDEX_TO_VPRIME_IOD_ERR: Could not get iod for ifindex for vprime. error: [chars] errorno 0x[hex]`

Explanation Trying to get vprime_iod for if_index

Recommended Action No special action is required.

Error Message `NGMVPN-3-INCORRECT_GRANGE_FOR_MRIB: In func: [chars], [dec] incorrectly marked pending for MRIB`

Explanation RP Grange and SSM group range need not be sent to MRIB.

Recommended Action No special action is required.

Error Message `NGMVPN-3-INVALID_MSG: In func: [chars] received invalid msg: [dec]`

Explanation BGP tried to send invalid msg

Recommended Action No special action is required.

Error Message `NGMVPN-3-INVALID_RP_MSG: RP Grange messages accepted only on Border leaf nodes`

Explanation An RP grange message is expected only on Border leaf nodes.

Recommended Action No special action is required.

Error Message `NGMVPN-3-INVALID_SSM_MSG: SSM range messages accepted only on Border leaf nodes`

Explanation An SSM range message is expected only on Border leaf nodes.

Recommended Action No special action is required.

Error Message `NGMVPN-3-INVALID_VRF_ID: Invalid VRF-id: [dec], message ignored`

Explanation Invalid VRF-id

Recommended Action No special action is required.

Error Message `NGMVPN-3-LIB_EXCESS_NLRIS: BGP tried to send [dec] nlris`

Explanation BGP tried to send too many nlris

Recommended Action No special action is required.

Error Message `NGMVPN-3-LIB_MTS_SEND: In func: [chars] could not send nlri: [chars] error: [chars]`

Explanation BGP could not send nlri to NGMVPN

Recommended Action No special action is required.

Error Message `NGMVPN-3-LIB_REQ_LOCAL: BGP requested an invalid number of address families: [dec]`

Explanation BGP requested an invalid number of address families

Recommended Action No special action is required.

Error Message `NGMVPN-3-MALLOC_FAILED: [chars] failed in [chars]`

Explanation NGMVPN process failed to allocate memory.

Recommended Action No special action is required.

Error Message NGMVPN-3-MALLOC: Private mem malloc ([dec]) failed in [chars]

Explanation NGMVPN process is out of free private memory.

Recommended Action No special action is required.

Error Message NGMVPN-3-MIGRATION_FAILED: Vinci Migration failed due to error: [chars], errorno: 0x[hex]

Explanation Vinci Migration failed

Recommended Action No special action is required.

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

Explanation NGMVPN called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message NGMVPN-3-MTS_CALLBACK: Error returned from mts_callback_handler_set() for [chars] mts queue, errno: [chars]

Explanation NGMVPN called a MTS API which returned an error.

Recommended Action Dump core, then restart component

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

Explanation NGMVPN called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message NGMVPN-3-MTS_OPTIONS_SET: Error returned from mts_options_set() for [chars] queue, errno: [chars]

Explanation NGMVPN called a MTS API which returned an error.

Recommended Action Dump core, then restart component

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

Explanation NGMVPN called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message NGMVPN-3-MTS_SEND: In func: [chars] could not send notif to client [chars] error: [chars]

Explanation NGMVPN could not send notification to client

Recommended Action No special action is required.

Error Message NGMVPN-3-MTS_UNBIND: Error returned from mts_unbind() for [chars] mts queue, errno: [chars]

Explanation NGMVPN called a MTS API which returned an error.

Recommended Action Dump core, then restart component

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

Explanation NGMVPN process failed to initialize mutex system resource.

Recommended Action Dump core, then restart component

Error Message NGMVPN-3-NOPMEM: Ran out of private memory for [chars]

Explanation Ran out of private memory

Recommended Action No special action is required.

Error Message NGMVPN-3-NO_IP_NH_MAPPING: Could not find mapping for [chars] NH address

Explanation IP NH address mapping could not be found

Recommended Action No special action is required.

Error Message NGMVPN-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 NGMVPN-3-PRUNING_DISABLED: Ignoring Fabric Mroute message from BGP, Pruning Disabled

Explanation A Fabric mroute message was received which is unexpected when Pruning is disabled.

Recommended Action No special action is required.

Error Message `NGMVPN-3-PTADD_ERROR: Could not add to PT: vnid=[dec] src=[chars] dst=[chars] err=[dec]`

Explanation Could not add to PT

Recommended Action No special action is required.

Error Message `NGMVPN-3-PTDEL_ERROR: Could not delete from PT: vrf=[chars] [chars] err=[dec]`

Explanation Could not delete from PT

Recommended Action No special action is required.

Error Message `NGMVPN-3-PTHREAD_FAILED: pthread_create() failed for [chars]`

Explanation NGMVPN process failed to create a task thread.

Recommended Action Dump core, then reload the stack

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

Explanation NGMVPN process is shutting itself down.

Recommended Action No special action is required.

Error Message `NGMVPN-3-SLAB_ALLOC_ERR: Could not allocate slab for [chars]`

Explanation Could not allocate slab

Recommended Action No special action is required.

Error Message `NGMVPN-3-SLAB_CREATE: Slab alloc of type [chars] failed`

Explanation NGMVPN process failed to allocate Slab memory.

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

Error Message `NGMVPN-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 `NGMVPN-3-TXLISTADD_ERR_VNI: Could not add [chars] VNI [dec] [chars] to txlist`

Explanation Could not add to txlist

Recommended Action No special action is required.

Error Message `NGMVPN-3-TXLISTADD_ERR: Could not add [chars] vrf [chars] [chars] to txlist`

Explanation Could not add to txlist

Recommended Action No special action is required.

Error Message `NGMVPN-3-TXLISTINIT_ERR: Could not init [chars] to txlist`

Explanation Could not add to txlist

Recommended Action No special action is required.

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

Explanation NGMVPN failed to create txlist resource.

Recommended Action ACTION_SW_KEEP_RUNNING

Error Message `NGMVPN-3-UNKNOWN_BGP_MSG: Unknown message: [dec] received from BGP`

Explanation A message of unknown type was received from BGP

Recommended Action No special action is required.

Error Message `NGMVPN-3-UNKNOWN_MINOR: Minor type 0x[hex] unknown in [chars]`

Explanation NGMVPN process received unknown Interprocess message, dropped.

Recommended Action No special action is required.

Error Message `NGMVPN-3-UNKNOWN_MJR: Major type 0x[hex] unknown`

Explanation NGMVPN process received unknown Interprocess message, dropped.

Recommended Action No special action is required.

Error Message `NGMVPN-3-UNKNOWN_VNID: Received a [chars] message with unknown vnid : [dec] from BGP`

Explanation A fabric mroute from an unknown vnid was received from BGP

Recommended Action No special action is required.

Error Message `NGMVPN-3-VNID_CONFIGURED: Must unconfigure vnid [dec] before setting it`

Explanation Vnid must first be unconfigured before setting a new vnid

Recommended Action No special action is required.

Error Message `NGMVPN-3-VNI_EMPTY: VNI change message from L3VM was empty`

Explanation Received an empty VNI change message from L3VM

Recommended Action No special action is required.

Error Message `NGMVPN-3-VNI_TO_BD_ERR: vni_to_sw_bd returned error: [chars] errorno 0x[hex]`

Explanation Trying to get sw bd from vni

Recommended Action No special action is required.

NGMVPN-6

Error Message `NGMVPN-6-API_FAILED_GET_CREATE_CONTEXT: In func: [chars], no cib found for context_id: [dec]`

Explanation No cib found for context id

Recommended Action No special action is required.

Error Message `NGMVPN-6-SHUTDOWN: Shutting down NGMVPN - [chars]`

Explanation NGMVPN process is shutting itself down.

Recommended Action No special action is required.

Error Message `NGMVPN-6-UNKNOWN_MSG: ngmvpn_mts_main(): unknown major mtype: [dec]`

Explanation NGMVPN process received unknown Interprocess message, dropped.

Recommended Action No special action is required.

Error Message `NGMVPN-6-UNKNOWN_NLRI: In func: [chars] unknown NLRI: [dec]`

Explanation Unknown nlri

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 occured.

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 occured.

Recommended Action Restart component

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

Explanation An internal software error occured.

Recommended Action Restart component

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

Explanation An internal software error occured.

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 occured.

Recommended Action Restart component

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

Explanation An internal software error occured.

Recommended Action Restart component

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

Explanation An internal software error occured.

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-INVALIDESPKCCRYPTOALGO: Cryptographic algorithm in key ID [dec] of key chain [chars] is not supported by OSPFv3 [chars]`

Explanation The cryptographic algorithm configured in the key chain is not supported by OSPFv3.

This may happen because the key chain allows cryptographic algorithms which is not acceptable by OSPFv3.

Recommended Action Configure a cyrptographic algorithm that is supported by OSPFv3

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 cyrptographic 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-INVALIDKCKEYLENGTH: Invalid Key Length: [dec], [chars] needs [dec] hex digits as key`

> **Explanation** The key string length configured in the key chain is not supported by algorithm.
>
> **Recommended Action** Configure a key with the length suggested as per algorithm

Error Message `OSPF-3-INVALIDKCKEYSTRING: Invalid Key for [chars], Invalid character [dec] in key`

> **Explanation** The key string configured in the key chain is not supported by algorithm.
>
> **Recommended Action** Configure a valid key without non hex characters

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 atmost 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 atmost 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 Edinbirgh-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-UNKNOWNSIG: 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.

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 recieved 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 mananger 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.

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_FAILURE: Startup failure: [chars]`

Explanation An software error has occurred during PIM startup.

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-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_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 perfor 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-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-HA_FAILURE: [chars]`

Explanation PIM process failed in a HA operation.

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-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-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_MBUF: Received invalid mbuf pointer in [chars]`

Explanation PIM received invalid data buffer, discarded.

Recommended Action No special action is required.

Error Message `PIM-3-MALLOC: Private mem malloc (%zu) 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-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-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-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-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_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_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_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_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_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-PIM_LIB_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-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_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-PIM_LIB_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-PIM_LIB_RECOVERY_FAIL: Recovery failed for [chars] DB`

Explanation Unable recover a PIM database

Recommended Action No special action is required.

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-PIM_LIB_UNKNOWN_MINOR: Minor type 0x[hex] unknown`

Explanation PIM client received unknown Interprocess message, dropped.

Recommended Action No special action is required.

Error Message `PIM-3-PIM_LIB_UNKNOWN_MJR: Major type 0x[hex] unknown`

Explanation PIM client received unknown Interprocess message, dropped.

Recommended Action No special action is required.

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-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-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-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-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 (%zu) 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-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] for VRF [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-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.

Error Message `PIM-4-HELLO_KEYCHAIN_ALGOUNSUPPORTED: Hello keychain authentication configured with keychain [chars] on interface [chars] with unsupported cryptographic algorithm. Falling back to SHA1.`

> **Explanation** The cryptographic algorithm in the specified keychain is not supported. SHA1 is used as a fallback.
>
> **Recommended Action** No special action is required.

Error Message `PIM-4-HELLO_KEYCHAIN_NOKEY: Hello keychain authentication configured with keychain [chars] on interface [chars] but no valid key present. Not sending nor accepting hello messages on interface.`

> **Explanation** The specified keychain doesn't exist, or the keychain has no valid key.
>
> **Recommended Action** Requires operator to intervene

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-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 precent 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.

PMALLOC Messages

This section contains the PMALLOC messages.

PMALLOC-3

Error Message `PMALLOC-3-BITMAP_MEM_CHECK: Failed to allocate bitmap for memory checking in [chars]`

Explanation In PMALLOC lib, process failed to allocate bitmap for memory checking.

Recommended Action No special action is required.

Error Message `PMALLOC-3-MALLOC_ENABLE_CHECKER_INFO: [dec] bytes already allocated`

Explanation In PMALLOC lib, warn if some bytes have already been allocated.

Recommended Action No special action is required.

Error Message `PMALLOC-3-MALLOC_ENABLE_CHECKER: Malloc enable checker failed in [chars]`

Explanation In PMALLOC lib, process failed to turn on memory accesses.

Recommended Action No special action is required.

Error Message `PMALLOC-3-MALLOC_FAILURE: Malloc failure in [chars]`

Explanation In PMALLOC lib, Malloc failed.

Recommended Action No special action is required.

Error Message `PMALLOC-3-NOT_ALLOCATED_SM_MALLOC_STR: [chars] failed in [chars]`

Explanation In PMALLOC lib, invalid memory block/excess block request.

Recommended Action No special action is required.

Error Message `PMALLOC-3-SEGMENT_NOT_INIT: Segment 0x[hex] not initialized for memory checking`

Explanation In PMALLOC lib, segment is not initialized for memory checking.

Recommended Action No special action is required.

Error Message `PMALLOC-3-SM_INIT_CHECKING: [chars] failed in [chars]`

Explanation In PMALLOC lib, function failed to initialized.

Recommended Action No special action is required.

PMALLOC-6

Error Message `PMALLOC-6-BLOCKED_MEMSEG_MUTEX: Blocked for memseg_mutex`

Explanation In PMALLOC lib, process is blocked for memseg_mutex.

Recommended Action No special action is required.

Error Message `PMALLOC-6-LARGE_MEM: Large mem: shared [dec]`

Explanation In PMALLOC lib, large memory requested.

Recommended Action No special action is required.

Error Message `PMALLOC-6-MMAP_SIZE: MMAP size is: [dec]`

Explanation In PMALLOC lib, Memory map size.

Recommended Action No special action is required.

Error Message `PMALLOC-6-SBRK_FAILURE: sbrk failed in [chars]`

Explanation In PMALLOC lib, return vlaue from MORECORE failed.

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 occured 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 occured 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 occured in the PM process

    Recommended Action Report the issue to Customer Support

Error Message `PM-3-IPC_ERR: [chars]`

    Explanation A failure occured 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 occured 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 occured 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 occured

    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 opcde [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

PT Messages

This section contains the PT messages.

PT-4

Error Message `PT-4-PT_WARNING: [chars]`

    Explanation Patricia Tree API warning

    Recommended Action No special action is required.

REGEX Messages

This section contains the REGEX messages.

REGEX-3

Error Message `REGEX-3-BACKSLASH: Trailing \\ error in [chars]`

    Explanation In REGEX lib, trailing backslash error.

    Recommended Action No special action is required.

Error Message `REGEX-3-CORRPTD_OPCODE: Corrupted opcode in [chars]`

    Explanation In REGEX lib, corrupted opcode.

    Recommended Action No special action is required.

Error Message `REGEX-3-CORRPTD_PGM: Corrupted program in [chars]`

    Explanation In REGEX lib, corrupted program.

    Recommended Action No special action is required.

Error Message `REGEX-3-CORRPTD_POINTERS: Corrupted pointers in [chars]`

    Explanation In REGEX lib, corrupted pointers.

    Recommended Action No special action is required.

Error Message `REGEX-3-DMG_REGEX: Damaged regexp fed to regsub in [chars]`

    Explanation In REGEX lib, damaged regexp fed to regsub.

    Recommended Action No special action is required.

Error Message `REGEX-3-EXP_TOO_BIG: Expression too big in [chars]`

Explanation In REGEX lib, expression too big.

Recommended Action No special action is required.

Error Message `REGEX-3-INTERNAL_URP: Internal urp in [chars]`

Explanation In REGEX lib, internal urp error.

Recommended Action No special action is required.

Error Message `REGEX-3-INTR_FOULUP: Internal foulup in [chars]`

Explanation In REGEX lib, internal foulup.

Recommended Action No special action is required.

Error Message `REGEX-3-INVALID_BRCKT_RANGE: Invalid [] range in [chars]`

Explanation In REGEX lib, invalid [] range.

Recommended Action No special action is required.

Error Message `REGEX-3-INVALID_LENGTH: Invalid character position in [chars]`

Explanation In REGEX lib, invalid character position.

Recommended Action No special action is required.

Error Message `REGEX-3-JUNK: Junk characters at the end in [chars]`

Explanation In REGEX lib, junk characters at the end.

Recommended Action No special action is required.

Error Message `REGEX-3-MEMORY_CORRUPTION: Memory corruption in [chars]`

Explanation In REGEX lib, memory corruption.

Recommended Action No special action is required.

Error Message `REGEX-3-MEMORY_ERR: Not enough memory in [chars]`

Explanation In REGEX lib, not enough memory.

Recommended Action No special action is required.

Error Message `REGEX-3-NESTED_SYMBOL: Nested *?+ in [chars]`

Explanation In REGEX lib, nested *?+ symbols.

Recommended Action No special action is required.

Error Message `REGEX-3-NULL_PARM_REGSUB: NULL parameter to regsub in [chars]`

Explanation In REGEX lib, NULL parameter to regsub.

Recommended Action No special action is required.

Error Message `REGEX-3-NULL_PGM_PARM: Null program parameter [chars]`

Explanation In REGEX lib, null program parameter.

Recommended Action No special action is required.

Error Message `REGEX-3-NULL_STR_PARM: NULL string parameter in [chars]`

Explanation In REGEX lib, null string parameter.

Recommended Action No special action is required.

Error Message `REGEX-3-OPND_EMPTY: *+ operand could be empty in [chars]`

Explanation In REGEX lib, *+ operand could be empty.

Recommended Action No special action is required.

Error Message `REGEX-3-PTTRN_LONG: Pattern substitution too long in [chars]`

Explanation In REGEX lib, pattern substitution too long.

Recommended Action No special action is required.

Error Message `REGEX-3-SYMBOL_ERR: ?+* follows nothing in [chars]`

Explanation In REGEX lib, symbol error.

Recommended Action No special action is required.

Error Message `REGEX-3-TOO_MANY_PRNTHSIS: Too many paranthesis in [chars]`

Explanation In REGEX lib, too many paranthesis.

Recommended Action No special action is required.

Error Message `REGEX-3-UNMATCHED_BRCKT: Unmatched [] in [chars]`

Explanation In REGEX lib, unmatched [].

Recommended Action No special action is required.

Error Message `REGEX-3-UNMATCHED_PRNTHSIS: Unmatched paranthesis in [chars]`

Explanation In REGEX lib, unmatched paranthesis.

Recommended Action No special action is required.

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 occured

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 occured 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 occured 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 occured 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 opcde [dec], dropping it`

> **Explanation** RIP recieved 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-KEYCHAIN_DECRYPT_FAILED: There are few type6 keys that cannot be decrypted using new system key. Check 'show key chain detail' command to find those keys.`

> **Explanation** Failed to decrypt keystring with the current system key.
>
> **Recommended Action** Remove type6 keystring and generate a new type6 with current system key.

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. The number of policies/keychains configured has reached its maximum limit.

> **Recommended Action** Delete unused policy/keychain configurations in order to free up shared memory.

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-4

Error Message `RPM-4-DELETED_REF1: Deleted [chars] [chars] present in route-map:[chars] - review for possible routing impact`

Explanation Deleted list referenced in route-map

Recommended Action Keep running, do nothing special

Error Message `RPM-4-DELETED_REF2: Deleted [chars] [chars] present in [chars] - review for possible routing impact`

Explanation Deleted route policy referenced in routing clients

Recommended Action Keep running, do nothing special

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.

SLAB_LIB Messages

This section contains the SLAB_LIB messages.

SLAB_LIB-2

Error Message SLAB_LIB-2-SLAB_ELEM_ERR: Slab element Alloc PC: [hex], Element index: [dec]

> **Explanation** An error occured in a call to the slab library

> **Recommended Action** No special action is required.

SLAB_LIB-3

Error Message SLAB_LIB-3-SLAB_ERR: Slab error [[chars]] in [chars]

> **Explanation** An error occured in a call to the slab library

> **Recommended Action** No special action is required.

SMM Messages

This section contains the SMM messages.

SMM-0

Error Message SMM-0-SM_CREATE_ORIG_VAL: [chars] with the [dec] value failed. Retrying with the lower value [dec] size

> **Explanation** SMM could not create requested size, trying for a create for a lower size succeeded.

> **Recommended Action** No special action is required.

Error Message SMM-0-SM_RECREATE_LOW_VAL: Reallocate with new value [dec] bytes ([dec] MB) failed, but we were able to allocate a segment with a lower value.

> **Explanation** SMM could not recreate requested size, but create for a lower size succeeded.

> **Recommended Action** No special action is required.

SMM-2

Error Message SMM-2-SAME_REGION: Same region allocated on recreate request, from addr [hex] with size [dec]

Explanation A client requested for a new region to be created, but got the same region back.

Recommended Action No special action is required.

Error Message `SMM-2-SM_API_FAILED: [chars] failed in [chars]() with error "[chars]" for SHM size [dec] bytes ([dec] MB). Trying to allocate shared memory with lower value now.`

Explanation SMM could not recreate a shared-memory segment.

Recommended Action No special action is required.

SMM-3

Error Message `SMM-3-API_FAILED: [chars] failed in [chars]`

Explanation Component API call failed in SMM.

Recommended Action No special action is required.

Error Message `SMM-3-API_MTS_FAILED: [chars] failed in [chars], errno: [chars]`

Explanation SMM failed using the MTS API.

Recommended Action No special action is required.

Error Message `SMM-3-API_SM_FAILED: Could not allocate shared-memory segment. [chars] failed in [chars] with error [chars]`

Explanation SMM process could not allocate shared-memory.

Recommended Action No special action is required.

Error Message `SMM-3-BAD_API_PARAM: [chars] API failed because [chars]`

Explanation Illegal arguments were provided for an SMM API

Recommended Action Restart component

Error Message `SMM-3-BAD_SEG_TYPE: SMM API [chars] failed for [chars], [chars] shared memory segment expected`

Explanation Incorrect SMM API called for the type (static/dynamic) shared memory segment

Recommended Action No special action is required.

Error Message `SMM-3-FTRUNCATE_FAILED: [chars] failed in [chars] with error [chars]`

    Explanation SMM could not truncate process memory segment.

    Recommended Action No special action is required.

Error Message `SMM-3-GETRLIMIT_FAILED: Getrlimit failed in [chars], reason [chars]`

    Explanation SMM API could not set memory resource limit for a client

    Recommended Action Restart component

Error Message `SMM-3-GET_SHM_INFO_FAILED: Failed to get SHM info in function [chars] with error: [chars]`

    Explanation Failed to get SHM information.

    Recommended Action No special action is required.

Error Message `SMM-3-HA_FAILED: SMM HA:[chars]`

    Explanation SMM process restart recovery has succeeded / failed.

    Recommended Action No special action is required.

Error Message `SMM-3-INVALID_STEP_SIZE: [chars]: Invalid step sizes specified for dynamic SHM, incr size: [dec], decr_size: [dec]`

    Explanation Illegal arguments were provided for an SMM API

    Recommended Action Restart component

Error Message `SMM-3-LSEEK_FAILED: Failed to seek to offset [dec] for file [chars]`

    Explanation Lseek operation on a shared memory file failed

    Recommended Action No special action is required.

Error Message `SMM-3-MALLOC_FAILED: [chars] failed in [chars]`

    Explanation SMM process is out of free memory.

    Recommended Action No special action is required.

Error Message `SMM-3-MEMORY_API_ERROR: [chars] failed in [chars] with error [chars]`

Explanation Memory API failed.

Recommended Action No special action is required.

Error Message `SMM-3-MMAP_FAILED: [chars] failed in [chars] with error [chars] for segment [chars]. Requested map from [hex] for size [dec]`

Explanation MMAP failed.

Recommended Action No special action is required.

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

Explanation SMM failed to access message-queue resource.

Recommended Action No special action is required.

Error Message `SMM-3-MTS_DROP: Error returned from mts_drop()`

Explanation SMM called a MTS API which returned an error.

Recommended Action Dump core, then restart component

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

Explanation SMM failed using the MTS API.

Recommended Action No special action is required.

Error Message `SMM-3-MTS_RECV: Error returned from mts_recv()`

Explanation SMM called a MTS API which returned an error.

Recommended Action Dump core, then restart component

Error Message `SMM-3-NO_REGION: No corresponding region found for segment [chars]`

Explanation SMM library could not find a the region data structure which corresponds to each shared memory segment

Recommended Action No special action is required.

Error Message `SMM-3-PSS_REPORT: SMM HA:[chars]`

> **Explanation** Persistent DB reports for SMM.

> **Recommended Action** No special action is required.

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

> **Explanation** SMM process failed to create a task thread.

> **Recommended Action** Dump core, then reload the stack

Error Message `SMM-3-REFCOUNT_ERR: [chars]: Refcount of shared memory segment [chars] is [dec], expected refcount [dec]`

> **Explanation** There are more/less readers of the same shared memory segment than expected for the API to succeed

> **Recommended Action** No special action is required.

Error Message `SMM-3-REGION_FAILED: Failed to create SMM region [chars]`

> **Explanation** SMM API failed in [chars] to create a region [chars] for the shared memory this client is trying to open.

> **Recommended Action** Restart component

Error Message `SMM-3-SETRLIMIT_FAILED: Address space size increment of [dec] failed in [chars], reason [chars]`

> **Explanation** SMM API could not set memory resource limit for a client

> **Recommended Action** No special action is required.

Error Message `SMM-3-SHM_CLEANUP_FAILED: Failed to cleanup SHM info for [chars] in [chars] with error: [chars]`

> **Explanation** Failed to cleanup shared memory for recreate API

> **Recommended Action** No special action is required.

Error Message `SMM-3-SMM_API_FAILED: [chars] failed in [chars]`

> **Explanation** Component API call failed in SMM.

Recommended Action No special action is required.

Error Message `SMM-3-SM_CREATE_FAILED: Failed to create [chars] shared memory segment [chars]`
`of size [dec] (max [dec])`

Explanation SMM failed to create a shared memory segment.

Recommended Action Restart component

Error Message `SMM-3-SM_FAILED: Could not allocate shared-memory segment`

Explanation SMM process could not allocate shared-memory.

Recommended Action No special action is required.

Error Message `SMM-3-SM_GET_NEW_REGION_FAILED: Failed to get shared memory region for [chars]`
`of size [dec]`

Explanation SMM failed to get a new region of the requested size

Recommended Action Restart component

Error Message `SMM-3-SM_INFO_FOR_SMM: Received request [chars] for SMM's segment, unexpected`

Explanation SMM received a request to open its own shared memory segment

Recommended Action No special action is required.

Error Message `SMM-3-SM_OPEN_FAILED: [chars] failed in [chars] with error [chars]`

Explanation SMM could not open a shared-memory segment.

Recommended Action No special action is required.

Error Message `SMM-3-SYSMGR_DISPATCH: Error returned from sysmgr_dispatch()`

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

Recommended Action Dump core, then restart component

Error Message `SMM-3-TIMER_FAILED: active_timer_create() failed in [chars] for [chars] timer`

Explanation SMM failed to initialize timer resource.

Recommended Action Dump core, then restart component

Error Message `SMM-3-TIMER_SET_INIT: Couldn't init [chars] active timer set`

Explanation SMM failed to initialize timer resource.

Recommended Action Dump core, then restart component

Error Message `SMM-3-UNKNOWN_SMM_MTYPE: Unknown [chars] in mtype: [dec]/[dec] (major/minor) in [chars]`

Explanation SMM process received unknown Interprocess message, dropped.

Recommended Action No special action is required.

SMM-5

Error Message `SMM-5-UNKNOWN_OPC: Unknown MTS opcode [dec] in [chars]`

Explanation UNEXPECTED_EXPLANANTION

Recommended Action No special action is required.

SMM-6

Error Message `SMM-6-SUP_SWITCHOVER: Received [chars] SUP switchover message.`

Explanation Events related to changing SUP state from standby to active.

Recommended Action No special action is required.

Error Message `SMM-6-SUP_SWOVER_DONE: [chars]`

Explanation Events related to changing SUP state from standby to active.

Recommended Action No special action is required.

SYSLOG Messages

This section contains the SYSLOG messages.

SYSLOG-0

Error Message `SYSLOG-0-SL_MSG_EMERG: [chars]`

Explanation Syslog API Emergency

Recommended Action No special action is required.

SYSLOG-1

Error Message `SYSLOG-1-SL_MSG_ALERT: [chars]`

Explanation Syslog API Alert

Recommended Action No special action is required.

SYSLOG-2

Error Message `SYSLOG-2-DT_TEST_LIB: Test Syslog library facility: [chars]`

Explanation Test

Recommended Action No special action is required.

Error Message `SYSLOG-2-DT_TEST: Test Syslog facility: [chars]`

Explanation Test

Recommended Action No special action is required.

Error Message `SYSLOG-2-SL_MSG_CRIT: [chars]`

Explanation Syslog API Critical

Recommended Action No special action is required.

SYSLOG-3

Error Message `SYSLOG-3-NOTSET: Trying to print uninitialized error message`

Explanation An internal software error occured.

Recommended Action Contact your support channel.

Error Message `SYSLOG-3-SL_MSG_ERR: [chars]`

    Explanation Syslog API Error

    Recommended Action No special action is required.

Error Message `SYSLOG-3-TOOLONG: Error message too long: [chars]`

    Explanation An internal software error occured.

    Recommended Action Contact your support channel.

Error Message `SYSLOG-3-UNKNOWN: Unknown facility/severity: [hex]`

    Explanation An internal software error occured.

    Recommended Action Contact your support channel.

SYSLOG-4

Error Message `SYSLOG-4-SL_MSG_WARNING: [chars]`

    Explanation Syslog API Warning

    Recommended Action No special action is required.

SYSLOG-5

Error Message `SYSLOG-5-SL_MSG_NOTICE: [chars]`

    Explanation Syslog API Notice

    Recommended Action No special action is required.

SYSLOG-6

Error Message `SYSLOG-6-SL_MSG_INFO: [chars]`

    Explanation Syslog API Info

Recommended Action No special action is required.

SYSLOG-7

Error Message `SYSLOG-7-SL_MSG_DEBUG: [chars]`

    Explanation Syslog API Debug

    Recommended Action No special action is required.

SYSWRAP_LIB Messages

This section contains the SYSWRAP_LIB messages.

SYSWRAP_LIB-2

Error Message `SYSWRAP_LIB-2-SYSWRAP_ERR: Error condition in stack: [chars] tid=[dec]: [hex] bytes left on stack of [hex] bytes`

    Explanation An error occured in a call to the syswrap library

    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_CONFCHECK_ADD: TCP MSS capability add failed.`

Explanation Ip tcp mss command failed

Recommended Action No special action is required.

Error Message `TCP-2-CLI_CONFCHECK_DELETE: TCP MSS capability delete failed.`

Explanation No ip tcp mss command failed

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 initilize 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 registeration

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-4

Error Message `TCP-4-TCP_MD5_KEYCHAIN_WARNING: Unsupported keychain crypto algorithm [chars] configured for client:[chars]. Falling back to MD5 as default crypto.`

Explanation General MD5 warning messages

Recommended Action No special action is required.

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.

TSP Messages

This section contains the TSP messages.

TSP-3

Error Message `TSP-3-COND_SIGNAL_FAIL: pthread_cond_signal() failed: [chars]`

Explanation Pthread library call failed.

Recommended Action No special action is required.

Error Message `TSP-3-COND_WAIT_FAIL: pthread_cond_wait() failed: [chars]`

Explanation Pthread library call failed.

Recommended Action No special action is required.

Error Message `TSP-3-INIT_PROC: [chars][chars]`

Explanation Failed to init process with TSP.

Recommended Action No special action is required.

Error Message `TSP-3-INIT_THREAD: [chars][chars]`

Explanation Failed to init thread with TSP.

Recommended Action No special action is required.

Error Message `TSP-3-INVALID_THREAD_ID: Invalid thread id: [dec]`

Explanation Invalid thread id.

Recommended Action No special action is required.

Error Message `TSP-3-LOCK_MODE_CONFLICT: Lock mode conflict`

Explanation Lock R/W mode conflct.

Recommended Action No special action is required.

Error Message `TSP-3-LOCK_RELEASE_ORDER: Lock release out of order`

Explanation Releasing locks out of order.

Recommended Action No special action is required.

Error Message `TSP-3-LOCK_STACK_EMPTY: Lock stack empty`

Explanation Lock stack is empty.

Recommended Action No special action is required.

Error Message `TSP-3-LOCK_STACK_FULL: Lock stack full`

Explanation Lock stack is full.

Recommended Action No special action is required.

Error Message `TSP-3-MUTEX_LOCK_FAIL: pthread_mutex_lock() failed: [chars]`

Explanation Failed to lock mutex.

Recommended Action No special action is required.

Error Message `TSP-3-MUTEX_UNLOCK_FAIL: pthread_mutex_unlock() failed: [chars]`

Explanation Failed to unlock mutex.

Recommended Action No special action is required.

Error Message `TSP-3-RWSEM_CREATE_FAIL: rwsem_create(sap=[dec], flags=[hex]) err [hex] - [chars]`

    Explanation Failed to create rwsem.

    Recommended Action No special action is required.

Error Message `TSP-3-RWSEM_DELETE_FAIL: rwsem_lib_delete_owner(vdc=[dec], uuid=[dec], tid=[dec]) err [hex]`

    Explanation Failed to delete rwsem owner.

    Recommended Action No special action is required.

Error Message `TSP-3-RWSEM_HAVE_LOCK_FAIL: rwsem_have_lock(sap=[dec], flags=[hex]) err [hex] - [chars]`

    Explanation Failed to query rwsem status.

    Recommended Action No special action is required.

Error Message `TSP-3-RWSEM_INIT_FAIL: rwsem_lib_init(vdc=[dec], uuid=[dec], tid=[dec]) err [hex] - [chars]`

    Explanation Failed to initialize rwsem.

    Recommended Action No special action is required.

Error Message `TSP-3-RWSEM_LOCK_FAIL: rwsem_lock_no_sig([chars] SAP [dec]) failed: [chars]`

    Explanation Failed to lock rwsem.

    Recommended Action No special action is required.

Error Message `TSP-3-RWSEM_UNLOCK_FAIL: rwsem_unlock([chars] SAP [dec]) failed: [chars]`

    Explanation Failed to unlock rwsem.

    Recommended Action No special action is required.

TSP-6

Error Message `TSP-6-SUTIME_BACKWARDS: Getrusage s/utime went backwards [dec].[dec] -> [dec].[dec]`

Explanation CPU usage counters went backwards

Recommended Action No special action is required.

TSP-7

Error Message `TSP-7-INVALID_LOCK_INDEX: Invalid lock index: [dec]`

Explanation Lock index is invalid.

Recommended Action No special action is required.

Error Message `TSP-7-LOCK_MAX_COUNT: Lock max reached`

Explanation Lock max for process.

Recommended Action No special action is required.

TX Messages

This section contains the TX messages.

TX-3

Error Message `TX-3-TXLIST_ERROR: [chars]`

Explanation TXLIST API returned an error.

Recommended Action No special action is required.

Error Message `TX-3-TXLIST_PERROR: [chars]`

Explanation TXLIST API returned a perror.

Recommended Action No special action is required.

Error Message `TX-3-TXTHREAD_ERROR: [chars]`

Explanation TXTHREAD API returned an error.

Recommended Action No special action is required.

Error Message `TX-3-TXTHREAD_PERROR: [chars]`

>**Explanation** TXTHREAD API returned a perror.

>**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-NOSMEM: 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 occured. 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_MTSSEND_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 ation.
>
> **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_MTSSEND_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-MORE_INFO: 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-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-ROUTELIMIT_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-ROUTELIMIT_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-ROUTELIMIT_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-ROUTELIMIT_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-ROUTELIMIT_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_OPC: [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 occured. 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 enountered 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_MTSSEND_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 occured 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_MTSSEND_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_MTSSEND_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-MORE_INFO: 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-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-ROUTELIMIT_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-ROUTELIMIT_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-ROUTELIMIT_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-ROUTELIMIT_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-ROUTELIMIT_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