

# Cisco Nexus 9000 Series NX-OS System Routing Messages Reference, Release 10.4(1)F

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## Messages and Recovery Procedures

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

### ICMPV6 Messages

This section contains the ICMPV6 messages.

#### ICMPV6-2

**Error Message** ICMPV6-2-ADJ\_FIND: Couldn't find an adjacency for [chars] in [chars]()

**Explanation** ICMPv6 could not find AM adjacency

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

**Error Message** ICMPV6-2-ADJ\_RAVL: [chars] in [chars]()

**Explanation** ICMPv6 called an AVL API that has failed

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

**Error Message** ICMPV6-2-DB\_RESTORE\_OBJ: [chars] in [chars]()

**Explanation** ICMPv6 DB restoration from DME object store has failed

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

**Error Message** ICMPV6-2-MALLOC\_FAILED: malloc() failed for allocating [chars] in [chars]()

**Explanation** ICMPv6 process is out of heap memory. This could be due to temporary increase in the number of static or dynamic Neighbor Cache Entries(NCEs) to a very high value

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

**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-API\_FAILED: [chars] failed in [chars]()

**Explanation** An unexpected but manageable event has occurred.);

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

**Error Message** ICMPV6-3-API\_INIT\_FAILED: [chars] failed in [chars]() with rc=0x[hex], [chars]

**Explanation** An unexpected but manageable event has occurred.);

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

**Error Message** ICMPV6-3-API\_INTERFACE\_FAILED: [chars] failed for [chars] in [chars]()

**Explanation** An unexpected but manageable event has occurred.);

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

**Error Message** ICMPV6-3-BAD\_INFO\_RECEIVED: Invalid [chars] message type [dec] received in [chars]()

**Explanation** An unexpected but manageable event has occurred.);

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

**Error Message** ICMPV6-3-BITFIELD\_FAILED: [chars] failed in [chars]

**Explanation** ICMPV6 process could not execute the bitfield operation.

**Recommended Action** Dump core, then reload the stack

**Error Message** ICMPV6-3-COUNT\_MISMATCH: Mismatch between calculated and received adjacencies: Calculated:[dec] and Received:[dec]

**Explanation** UNEXPECTED\_ERROR\_EXPLANATION

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

**Error Message** ICMPV6-3-CV\_INIT: Couldn't init cond var [chars]

**Explanation** ICMPV6 process failed to initialize conditional-variable resource.

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

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

**Explanation** UNEXPECTED\_ERROR\_EXPLANATION

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

**Error Message** ICMPV6-3-GROUP\_PREFIX\_IGNORE: Too many Groups in Group Prefix [chars]. Specify the prefix within /120

**Explanation** GPrefix yields too many Groups

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

**Error Message** ICMPV6-3-GROUP\_RANGE\_IGNORE: Too many Groups in Group Range [chars] - [chars]

**Explanation** Group Range yields too many Groups

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

**Error Message** ICMPV6-3-IF\_INDEX: Invalid interface index received from [dec]

**Explanation** UNEXPECTED\_ERROR\_EXPLANATION

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

**Error Message** ICMPV6-3-MBUF\_OP\_FAILED: [chars] for size [dec] failed in [chars]()

**Explanation** An unexpected but manageable event has occurred.);

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

**Error Message** ICMPV6-3-MQ\_FAILED\_NAME: [chars] failed for client [chars], errno: [chars] in [chars]()

**Explanation** An unexpected but manageable event has occurred.);

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

**Error Message** ICMPV6-3-MQ\_FAILED\_PID: [chars] failed to client pid: [dec], errno: [chars] in [chars]()

**Explanation** An unexpected but manageable event has occurred.);

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

**Error Message** ICMPV6-3-MQ\_FAILED: [chars] failed, errno: [chars] in [chars]()

**Explanation** An unexpected but manageable event has occurred.);

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

**Error Message** ICMPV6-3-MSG\_TO\_TLV: TLV Conversion failed ([dec])

**Explanation** TLV conversion failed

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

**Error Message** ICMPV6-3-MTS\_DROP: Error returned from mts\_drop(), errno: [chars]

**Explanation** ICMPv6 called a MTS API which returned an error.

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

**Error Message** ICMPV6-3-MTS\_FAILED\_NAME: [chars] failed for client [chars], errno: [chars] in [chars]()

**Explanation** An unexpected but manageable event has occurred.);

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

**Error Message** ICMPV6-3-MTS\_FAILED\_PID: [chars] failed to client pid: [dec], errno: [chars] in [chars]()

**Explanation** An unexpected but manageable event has occurred.);

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

**Error Message** ICMPV6-3-MTS\_FAILED: [chars] failed, errno: [chars] in [chars]()

**Explanation** An unexpected but manageable event has occurred.);

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

**Error Message** ICMPV6-3-MTS\_RECV: Error returned from mts\_recv(), errno: [chars]

**Explanation** ICMPv6 called a MTS API which returned an error.

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

**Error Message** ICMPV6-3-MUTEX\_INIT: Couldn't init mutex [chars]

**Explanation** ICMPV6 process failed to initialize mutex system resource.

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

**Error Message** ICMPV6-3-ND\_LOG: [chars]

**Explanation** Neighbor Discovery process found erroneous configuration on the network

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

**Error Message** ICMPV6-3-ND\_RA\_LOG: [chars]

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

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

**Error Message** ICMPV6-3-PACKET\_LENGTH\_ERROR: ICMPv6 packet from [chars] is smaller than payload length of [dec] bytes:[chars]()

**Explanation** An unexpected but manageable event has occurred.);

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

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

**Explanation** ICMPv6 failed to update the local database entry.

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

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

**Explanation** ICMPv6 failed to delete the local database entry.

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

**Error Message** ICMPV6-3-RESERVE\_LIMIT: Exceeded reserve-limit for interface [chars] - dropping

**Explanation** Exceeded 80 percent of the reserve-limit for interface

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

**Error Message** ICMPV6-3-STATE\_LIMIT: Exceeded state-limit for interface [chars] - dropping

**Explanation** Exceeded 80 percent of the state-limit for interface

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

**Error Message** ICMPV6-3-SYSMGR\_DISPATCH: Error returned from sysmgr\_dispatch(), errno: [chars]

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

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

**Error Message** ICMPV6-3-TLV\_TO\_STRUCT: TLV to Struct Conversion failed ([dec])

**Explanation** TLV to Struct conversion failed

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

**Error Message** ICMPV6-3-TXLIST\_CREATE: Couldn't create txlist for [chars]

**Explanation** ICMPV6 failed to create txlist resource.

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

**Error Message** ICMPV6-3-VRF\_CREATE: ICMPv6 VRF creation failed for vrf [chars]

**Explanation** ICMPv6 process could not create the VRF context.

**Recommended Action** Dump core, then reload the stack

## ICMPV6-4

**Error Message** ICMPV6-4-M6RIB\_SM\_ADDR: M6RIB shared memory not valid for mtype:[dec], xid:[dec], count:[dec]

**Explanation** M6RIB shared memory being accesses is not valid

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

**Error Message** ICMPV6-4-MTS\_QUEUE\_NOT\_INITIALIZED: [chars] mts queue not intialized

**Explanation** ICMPV6\_UNEXPECTED\_EXPLANATION

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

**Error Message** ICMPV6-4-RATE\_LIMIT\_WARNING: icmpv6 rate limit exceeded in [chars]

**Explanation** Num of ipc msgs sent to icmpv6 are rate limited

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

## ICMPV6-6

**Error Message** ICMPV6-6-RESERVE\_LIMIT\_WARNING: Exceeded 80 percent of the reserve-limit for interface [chars]

**Explanation** Exceeded 80 percent of the reserve-limit for interface

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

**Error Message** ICMPV6-6-STATE\_LIMIT\_WARNING: Exceeded 80 percent of the state-limit for interface [chars]

**Explanation** Exceeded 80 percent of the state-limit for interface

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

**Error Message** ICMPV6-6-UNKNOWN\_OPC: Received unknown mts opcode [dec]

**Explanation** ICMPv6 process received unknown Interprocess message, dropped.

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

## ICMPV6-7

**Error Message** ICMPV6-7-IPV6\_PACKET\_SEND\_FAILED: [chars] failed in [chars]()

**Explanation** An unexpected but manageable event has occurred.);

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

## IPV6 Messages

This section contains the IPV6 messages.

### IPV6-2

**Error Message** IPV6-2-FASTBOOT\_MALLOC\_FAILED: [chars] failed while [chars]

**Explanation** IPv6 process is out of free memory.

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

**Error Message** IPV6-2-FREAD\_FAILED: fread failed [dec] [dec]

**Explanation** IPv6 fread failed

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

**Error Message** IPV6-2-IPV6\_MSG\_DAD\_FAILED: IPv6 DAD failed for [chars]

**Explanation** Duplicate address detected over network

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

**Error Message** IPV6-2-IPV6\_MSG\_MVSH: [chars]

**Explanation** Shutting down interface using mvsh

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

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

**Explanation** IPv6 Redirect done on an interface

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

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

**Explanation** Component API call failed in IPv6.

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

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

**Explanation** Component API call failed in IPv6.

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

**Error Message** IPV6-2-RECURSIVE\_LOOP: Recursive loop in [chars]

**Explanation** There is a recursive function calling loop.

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

**Error Message** IPV6-2-SDB\_CREAT: Failed to create shared database

**Explanation** Component API call failed in IPv6.

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

**Error Message** IPV6-2-SDB\_DESTROY: Failed to destroy shared database, errno: [dec]

**Explanation** Component API call failed in IPv6.

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

**Error Message** IPV6-2-SDB\_OPEN: Failed to open shared database, err: [chars]

**Explanation** Component API call failed in IPv6.

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

**Error Message** IPV6-2-VPC\_CONFIG: [chars]

**Explanation** Required config for peer router is not present.

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

## IPV6-3

**Error Message** IPV6-3-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 opcode [dec], dropping it

**Explanation** IPv6 recieved an unknown message. The message is dropped

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

**Error Message** IPV6-3-IPV6\_MV\_INIT: Couldn't init mutex [chars]

**Explanation** IPv6 process failed to initialize mutex system resource.

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

**Error Message** IPV6-3-IPV6\_TLV\_TO\_STRUCT: TLV to Struct Conversion failed ([dec])

**Explanation** TLV to Struct conversion failed

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

**Error Message** IPV6-3-IPV6\_TXLIST\_CREATE: Couldn't create txlist for [chars]

**Explanation** IPv6 failed to create txlist resource.

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

**Error Message** IPV6-3-M6RIB\_ADD\_ROUTE: M6RIB add route failed in [chars] for VRF [chars]

**Explanation** IP failed to add route in M6RIB.

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

**Error Message** IPV6-3-MALLOC\_FAILED\_PREFIX: [chars] failed in [chars] for [chars]

**Explanation** IPV6 process is out of free memory.

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

**Error Message** IPV6-3-MALLOC\_FAILED: [chars] failed in [chars]

**Explanation** IPv6 process is out of free memory.

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

**Error Message** IPV6-3-MBUF\_FAILED: [chars] failed in [chars] ([dec] bytes)

**Explanation** IPV6 process is out of mbufs.

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

**Error Message** IPV6-3-MQ\_FAILED\_NAME: [chars] failed in [chars] for client [chars], errno: [chars]

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

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

**Error Message** IPV6-3-MQ\_FAILED\_PID: [chars] failed in [chars] to client pid: [dec], errno: [chars]

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

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

**Error Message** IPV6-3-MQ\_FAILED: [chars] failed in [chars], errno: [chars]

**Explanation** IPv6 failed to access message-queue resource.

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

**Error Message** IPV6-3-MTS\_FAILED\_NAME: [chars] failed in [chars] for client [chars], errno: [chars]

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

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

**Error Message** IPV6-3-MTS\_FAILED\_PID: [chars] failed in [chars] to client pid: [dec], errno: [chars]

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

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

**Error Message** IPV6-3-MTS\_FAILED: [chars] failed in [chars], errno: [chars]

**Explanation** IPv6 failed to access mts-queue resource.

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

**Error Message** IPV6-3-PID\_CONFLICT: Client is using pid: [dec]/[dec] with different extended pid: [dec]

**Explanation** Multiple clients have same process ids.

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

**Error Message** IPV6-3-PTHREAD\_FAILED: [chars] failed for [chars] in [chars]

**Explanation** IPv6 process failed to create a task thread.

**Recommended Action** Dump core, then reload the stack

**Error Message** IPV6-3-REG\_FAILED: Failed to register with IPv6

**Explanation** Component API call failed in IPv6.

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

**Error Message** IPV6-3-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 occurred in the IP process

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

**Error Message** IP-3-IP\_INTF\_DAMPENED: Interface [chars] is suppressed

**Explanation** Interface got deactivated for L3 service due to frequent flappings

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

**Error Message** IP-3-IP\_INTF\_UNDAMPENED: Interface [chars] is unsuppressed

**Explanation** Interface got activated for L3 service

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

**Error Message** IP-3-IP\_MSG\_TO\_TLV: TLV Conversion failed ([dec])

**Explanation** TLV conversion failed

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

**Error Message** IP-3-IP\_MTSDROP: Error returned from mts\_drop(), errno: [chars]

**Explanation** IP called a MTS API which returned an error.

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

**Error Message** IP-3-IP\_MTSRECV: Error returned from mts\_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 occurred while creating a thread

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

**Error Message** IP-3-IP\_TLV\_TO\_STRUCT: TLV to Struct Conversion failed ([dec])

**Explanation** TLV to Struct conversion failed

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

**Error Message** IP-3-IP\_UNK\_MSG: Unrecognized message major type [dec], minor type [dec]

**Explanation** An unknown message was received from another process

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

**Error Message** IP-3-MRIB\_ADD\_ROUTE: MRIB add route failed in [chars] for VRF [chars]

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

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

**Error Message** IP-3-MRIB\_DELETE\_ROUTE: MRIB delete route failed in [chars] for VRF [chars]

**Explanation** IP failed to delete route from MRIB.

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

**Error Message** IP-3-MV\_INIT: Couldn't init mutex [chars]

**Explanation** IP process failed to initialize mutex system resource.

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

**Error Message** IP-3-NO\_SH\_MEM: Failed to allocate shared memory [chars]

**Explanation** The IP process has run out of shared memory

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

**Error Message** IP-3-PSS\_API\_INIT: Ksink pss API init failed ([dec])

**Explanation** Ksink pss API init failed

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

**Error Message** IP-3-TXLIST\_CREATE: Couldn't create txlist for [chars]

**Explanation** IP failed to create txlist resource.

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

**Error Message** IP-3-URIB\_ERR: Failed to [chars] urib

**Explanation** A failure occurred in a transaction with URIB

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

## IP-6

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

**Explanation** An ICMP packet was received with a bad length

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

**Error Message** IP-6-IM\_RECOVER\_ERROR: Failed to recover correct information for interface [chars] [dec]

**Explanation** IP could not recover the info for interface

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

**Error Message** IP-6-IP\_MTS\_UNKNOWN\_MSG: Received unknown MTS message with opcode [dec], dropping it

**Explanation** IP received an unknown message. The message is dropped

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

**Error Message** IP-6-IP\_UNK\_MSG\_MAJOR: Unrecognized message from [chars]. Major type [dec]

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

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

**Error Message** IP-6-IP\_UNK\_MSG\_MINOR: Unrecognized message from [chars]. Minor type [dec]

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

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

**Error Message** IP-6-MQ\_FLUSH: Flushing [dec] messages from the MRIB message queue

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

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

**Error Message** IP-6-REG\_SEND\_MSG: Suppress PIM Data Register for ([chars], [chars]) due to suppression-timer

**Explanation** Suppress PIM Data Register due to suppression-timer.

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

**Error Message** IP-6-STATS\_ERROR: Failed to get hardware statistics for interface [chars], reason [chars]

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

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

**Error Message** IP-6-SYSMAN\_CLEANUP: Terminated by SYSMAN cleanup signal [dec]

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

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

## IP-7



**Error Message** IP-7-INVALID\_NOTIFY: [chars]

**Explanation** UNEXPECTED\_ERROR\_EXPLANATION

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

## 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.

## PM Messages

This section contains the PM messages.

### PM-2

**Error Message** PM-2-PTP\_INIT\_FAILURE: [chars]:[chars]

**Explanation** PM ptp initialization has failed

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

**Error Message** PM-2-STARTUP\_FAILURE: Failed to [chars] during startup. error [dec]

**Explanation** A Critical operation has failed during startup of the PM process

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

## PM-3

**Error Message** PM-3-API\_FAILED: External API failed ([chars])

**Explanation** External API failed

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

**Error Message** PM-3-ARG\_ERR: Argument error ([chars]): [chars]

**Explanation** An argument to a PM call is invalid

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

**Error Message** PM-3-CLNT\_FAILURE: Failed to [chars] from client

**Explanation** A PM client operation has failed

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

**Error Message** PM-3-CPI\_ERR: [chars]

**Explanation** A failure occurred in the communication with the CPI

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

**Error Message** PM-3-DUP\_REG\_ERR: [chars] is already registered with PM

**Explanation** A PM client tried to register more than once with PM

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

**Error Message** PM-3-ERROR: Failed to [chars]

**Explanation** A Critical operation has failed in the PM process

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

**Error Message** PM-3-ETH\_STUB\_ERR: [chars]

**Explanation** A failure occurred in the ethernet stub module

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

**Error Message** PM-3-HA\_UPDATE: HA update failed ([dec])

**Explanation** HA update failed

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

**Error Message** PM-3-IF\_INDEX: Invalid interface index received from [dec]

**Explanation** Invalid interface index received

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

**Error Message** PM-3-INTERNAL\_ERROR: [chars]

**Explanation** An internal error has occurred in the PM process

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

**Error Message** PM-3-IPC\_ERR: [chars]

**Explanation** A failure occurred while communicating with another process

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

**Error Message** PM-3-MQ\_SEND: Failed to send message [chars] (err: [chars])

**Explanation** A message queue send operation failed

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

**Error Message** PM-3-MSG\_TO\_TLV: TLV Conversion failed ([dec])

**Explanation** TLV conversion failed

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

**Error Message** PM-3-MTS\_DROP: [chars]:Error returned from mts\_drop(), errno: [chars] opcode [dec]

**Explanation** PM called a MTS API which returned an error.

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

**Error Message** PM-3-MTS\_RECV: Error returned from mts\_recv(), errno: [chars]

**Explanation** PM called a MTS API which returned an error.

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

**Error Message** PM-3-MTS\_SEND: Failed to send message [chars] (err: [chars])

**Explanation** PM called a MTS API which returned an error.

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

**Error Message** PM-3-NO\_MBUF: Failed to allocate mbuf [chars]

**Explanation** The PM process has run out of network buffers

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

**Error Message** PM-3-NO\_MEM: Failed to allocate private memory for [chars]

**Explanation** The PM process has run out of private memory

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

**Error Message** PM-3-PSS\_API\_INIT: Ksink pss API init failed ([dec])

**Explanation** Ksink pss API init failed

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

**Error Message** PM-3-PSS\_REGISTER: PSS register failed ([dec])

**Explanation** PSS register failed

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

**Error Message** PM-3-RP2RP\_ERR: [chars]

**Explanation** A failure occurred in the communication with the other RP

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

**Error Message** PM-3-THR\_CREATE: Failed to create [chars] thread. error [dec]

**Explanation** A failure occurred while creating a thread

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

**Error Message** PM-3-TLV\_TO\_STRUCT: TLV to Struct Conversion failed ([dec])

**Explanation** TLV to Struct conversion failed

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

**Error Message** PM-3-UNK\_MSG\_MAJOR: Unrecognized message from [chars]. Major type [dec]

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

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

**Error Message** PM-3-UNK\_MSG\_MINOR: Unrecognized message from [chars]. Minor type [dec]

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

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

**Error Message** PM-3-UNK\_MSG: Unrecognized message in [chars] thread. major type [dec], minor type [dec]

**Explanation** An unknown message was received from another process

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

## PM-5

**Error Message** PM-5-NOTICE: [chars]

**Explanation** An unexpected event has occurred

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

## PM-6

**Error Message** PM-6-CLIENT\_GET: HA client filter recovery failed ([dec])

**Explanation** HA client filter recovery failed

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

**Error Message** PM-6-IF\_INIT: Interface [chars] has been initialised

**Explanation** An interface has been initialised

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

**Error Message** PM-6-IF\_MEMB\_GET: HA if-membership recovery failed ([dec])

**Explanation** HA if-membership recovery failed

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

**Error Message** PM-6-MSG: [chars]

**Explanation** A generic message to the user

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

**Error Message** PM-6-MTS\_UNKNOWN\_MSG: Received unknown MTS message with opcode [dec], dropping it

**Explanation** PM received 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

## 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 memory

**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 initialize locking library

**Recommended Action** Reload the stack

## TCP-3

**Error Message** TCP-3-ALLOC: Error returned from calloc(), errno: [chars]

**Explanation** TCP called a calloc API which returned an error.

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

**Error Message** TCP-3-BADSIG: [chars]: Should not have received signal [dec]

**Explanation** Unexpected signal

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

**Error Message** TCP-3-CLIENT\_DELETE: [chars]: Could not delete client "[chars]" pid [dec] error [chars]



**Explanation** Can't delete client from clients list

**Recommended Action** Restart component

**Error Message** TCP-3-CLIENT\_NULL: [chars]: Client struct for pid [dec] not found

**Explanation** Can't find client for pid

**Recommended Action** Restart component

**Error Message** TCP-3-DOMAININIT: [chars]: domaininit: [chars] sw[[dec]] has no usrreqs

**Explanation** Bkoken domain structure

**Recommended Action** Restart component

**Error Message** TCP-3-FORK\_ERROR: [chars]: Parent of the forked child did not create state for child [dec]:[dec]

**Explanation** Parent process did not create state necessary for child process registration

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

**Error Message** TCP-3-INVALIDPARAM: [chars]: Invalid [chars]

**Explanation** Invalid parameter

**Recommended Action** Restart component

**Error Message** TCP-3-IP\_PROT\_UNKNOWN: [chars]: Unknown protocol in IP message [dec]

**Explanation** IP sent a packet with unknown protocol ID

**Recommended Action** Restart component

**Error Message** TCP-3-MBUF\_COPY: [chars]: Unable to do m\_copyback

**Explanation** No system resources

**Recommended Action** Reload the stack

**Error Message** TCP-3-MSG\_MAJOR\_UNKNOWN: [chars]: Unknown message major [dec], minor [dec]

**Explanation** Unknown major type

**Recommended Action** Restart component

**Error Message** TCP-3-MSG\_MINOR\_UNKNOWN: [chars]: Unknown minor message type [dec] from [chars]

**Explanation** Unknown minor type

**Recommended Action** Restart component

**Error Message** TCP-3-MTS\_RESPOND: Error returned from mts\_send\_response(), errno: [chars]

**Explanation** TCP called a MTS API which returned an error.

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

**Error Message** TCP-3-NOMBUF: [chars]: Unable to get mbuf

**Explanation** No system resources

**Recommended Action** Reload the stack

**Error Message** TCP-3-NOMEM: [chars]: malloc failed for: [chars]

**Explanation** No system resources

**Recommended Action** Reload the stack

**Error Message** TCP-3-PROCTERM\_NOTIFY: [chars]: Termination notification request failed for pid [dec]

**Explanation** Request for process termination notification has failed. This could lead to TCP memory leak over period of time

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

**Error Message** TCP-3-SM\_CREATE: [chars]: Shared memory "[chars]" create failed, error [dec]

**Explanation** No system resources

**Recommended Action** Reload the stack

**Error Message** TCP-3-SOCKET\_COLL\_FOUND: [chars]: Socket collision found for client: "[chars]", pid [dec]

**Explanation** Two clients selected on the same socket

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

**Error Message** TCP-3-SOCKET\_COLL: [chars]: Socket collision, old client: "[chars]", pid: [dec], new client: "[chars]", pid: [dec]

**Explanation** Two clients selected on the same socket

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

**Error Message** TCP-3-SOCREATE: [chars]: screate 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 opcode [dec], dropping it

**Explanation** TCP received an unknown MTS message. The message is dropped

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