

# AT Messages

The following are AppleTalk (AT) messages.

## Error Message

```
%AT-6-ACQUIREMODE: [chars]: AppleTalk interface initializing; acquiring [chars]
```

**Explanation** The interface is determining the correct configuration. This message is displayed when discovery mode is enabled and no other router is detected.

**Recommended Action** No action is required.

## Error Message

```
%AT-5-ADDRINUSE: [chars]: AppleTalk node warning; address [atalk_net] already in use
```

**Explanation** The hint address initially specified was in use. A search will be made for a valid address.

**Recommended Action** No action is required.

## Error Message

```
%AT-5-ADDRINVALID: [chars]: AppleTalk node warning; address [atalk_net] is invalid
```

**Explanation** The hint address specified for the interface was not valid for the current configuration.

**Recommended Action** The hint address is ignored and a random valid hint address is automatically computed. No action is required.

## Error Message

```
%AT-6-ADDRUSED: [chars]: AppleTalk node up; using address [atalk_net]
```

**Explanation** No hint address or a bad hint address was specified. This message indicates which AppleTalk address will be used for the interface.

**Recommended Action** No action is required.

## Error Message

```
%AT-2-ASSERTFAILED: AppleTalk assertion failed: [chars]
```

**Explanation** The software detected an inconsistency. Although this error is serious, the router will attempt to continue. AppleTalk processing might be impaired.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, note any AppleTalk problems you experience, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

```
%AT-5-BADNEIGHBOR: [chars]: AppleTalk neighbor ignored; [atalk_address] is  
misconfigured
```

**Explanation** The AppleTalk configuration of a neighboring router does not agree with the AppleTalk configuration of this router. This condition can result from a mismatch between the network range of the neighbor and the network range of this router.

**Recommended Action** Modify the configuration of either this router or the neighboring router so that the network ranges agree.

**Error Message**

```
%AT-6-BADROUTE: Route to [atalk_net] has gone bad
```

**Explanation** The system did not detect a route within the required timeout period. Therefore, the route is marked as bad. A network might have become unreachable for some reason, perhaps because of a broken connection. This message does not necessarily indicate an error condition.

**Recommended Action** No action is required.

**Error Message**

```
%AT-7-BUGREPORT: AppleTalk bug: [chars]
```

**Explanation** The software has detected an unexpected condition. The router takes corrective action and continues.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, note any AppleTalk problems you experience, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

```
%AT-3-CANTDEL: Cannot delete [chars] route [dec] by clearing; remove it by  
reconfiguring
```

**Explanation** The user attempted to remove a route from the routing table by issuing the **clear appletalk route** command. The command failed because the route was on a directly connected interface that was created when the user configured the router.

**Recommended Action** Remove the route by reconfiguring the directly connected interface with which it is associated.

**Error Message**

```
%AT-5-COMPATERR1: [chars]: AppleTalk internet compatibility mode required by  
[atalk_address]
```

**Explanation** A neighboring router supports only extended AppleTalk networks with a cable range of 1 and with one assigned zone; for example, 25-25.

**Recommended Action** Upgrade the routers that support only the original AppleTalk specification. In the meantime, observe the compatibility rules for AppleTalk Phase 1 and Phase 2 routers.

**Error Message**

%AT-5-COMPATERR2: AppleTalk neighbor incompatibility; [atalk\_net] has multiple zones

**Explanation** Although this router has neighbors that require your internetwork to observe compatibility rules, AppleTalk has learned of a route that has multiple zone names defined. This condition can cause node inconsistencies on your AppleTalk network.

**Recommended Action** Upgrade the routers that support only the original AppleTalk specification. In the meantime, observe the compatibility rules for AppleTalk Phase 1 and Phase 2 routers.

**Error Message**

%AT-5-COMPATERR3: AppleTalk neighbor incompatibility; [atalk\_net] has wide cable range

**Explanation** Although this router has neighbors that require your internetwork to observe compatibility rules, AppleTalk has learned of a route that has a cable range greater than 1. This condition can cause node inconsistencies on your AppleTalk network.

**Recommended Action** Upgrade the routers that support only the original AppleTalk specification. In the meantime, observe the compatibility rules for AppleTalk Phase 1 and Phase 2 routers.

**Error Message**

%AT-5-COMPATERR4: AppleTalk EIGRP neighbor incompatibility; [atalk\_address] has same router ID ([dec])

**Explanation** Two routers on the network have the same router ID.

**Recommended Action** Reconfigure the router to have a unique router ID. If the problem recurs, copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%AT-6-CONFIGOK: [chars]: AppleTalk interface enabled; verified by [atalk\_address]

**Explanation** The AppleTalk configuration has been verified by consulting the indicated router.

**Recommended Action** No action is required.

**Error Message**

%AT-7-DEBUGMSG: AppleTalk debug: [chars]

**Explanation** This message is generated by a debug command and provides additional information about an AppleTalk condition.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, note any AppleTalk problems you experience, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

```
%AT-3-DEFZONEERR: [chars]: AppleTalk interface warning; default zone differs from [atalk_address]
```

**Explanation** During the verification startup process, a disagreement occurred between the default zone (the first zone defined after the **appletalk cable-range** command) and the router that confirmed the configuration. When an AppleTalk end node is first connected to a network, it joins the default zone until it is overridden.

**Recommended Action** Use the **appletalk zone** command to correct the configuration so that all routers are advertising the same default zone. Note that several router implementations are known to mismanage the default zone.

**Error Message**

```
%AT-6-DELROUTE: AppleTalk network deleted; [atalk_net] removed from routing table
```

**Explanation** A route on the AppleTalk network has aged out.

**Recommended Action** No action is required.

**Error Message**

```
%AT-3-DISCOFF: [chars]: AppleTalk node warning; discovery mode disabled
```

**Explanation** A hardware or software error has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

```
%AT-3-DOMLOOP: Loop detected on domain [dec] [[chars]]
```

**Explanation** The domain router has detected a routing loop. Routing loops are not allowed. The domain router runs a background loop detection process. The domain router starts this process when it receives a new zone list from a domain that is identical to the list in the main routing table and whose network range length matches that in this list. The loop detection process sends several AppleTalk NBP loopback packets. When one of these packets is received on an interface that does not belong to the original domain, the domain router first shuts off all the domains involved in the loop and then shuts off all the interfaces in these domains. The loop detection does not catch all types of loops. The user must ensure that no loop exists.

**Recommended Action** Disable the cause of the routing loop. Then use the **clear appletalk** command to restart the interfaces involved.

**Error Message**

%AT-3-DOMOVERFLOW: Remap range overflow for [chars] domain [dec]

**Explanation** The remap range has overflowed. If a network (range) cannot fit inside the remapping range, the network or cable range being advertised by a neighboring router is not accepted. When an overflow occurs, all interfaces in the domain are disabled.

**Recommended Action** Use the **appletalk domain remap-range** command to increase the remapping range. Then restart the interfaces.

**Error Message**

%AT-5-DUPADDR: [chars]: AppleTalk interface restarting; node address taken by [enet]

**Explanation** Another AppleTalk node on a common network interface has claimed the same AppleTalk address that this router was using. This error indicates a serious, unexpected problem. If it recurs, there might be a physical network problem in which the nodes cannot communicate with each other.

**Recommended Action** The interface on this router restarts AppleTalk processing on the common network interface to resolve the address conflict. No action is required.

**Error Message**

%AT-6-EIGRPLINKDN: AppleTalk EIGRP link down: [chars]

**Explanation** An AppleTalk hardware interface has been disabled.

**Recommended Action** No action is required.

**Error Message**

%AT-6-EIGRPLINKUP: Appletalk EIGRP link up: [chars]

**Explanation** An AppleTalk Enhanced IGRP interface that was previously shut down has been restarted.

**Recommended Action** No action is required.

**Error Message**

%AT-6-EIGRPLOG: EIGRP logging: [chars] from [atalk\_address] ([int]) on [chars] for network [atalk\_net], metric [int] / [int]

**Explanation** A new AppleTalk Enhanced IGRP path has been learned. The message indicates the source of the path, its distance in hops, its metric, and the type of path.

**Recommended Action** No action is required.

**Error Message**

```
%AT-4-EIGRPLOTSOWORK: AppleTalk EIGRP WorkQ processed [int] entries, required [int] ms, did [chars] suspend
```

**Explanation** AppleTalk Enhanced IGRP did not have enough time to process packets.

**Recommended Action** If this message recurs, copy the message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

```
%AT-6-EIGRPPEERDN: AppleTalk EIGRP peer down: [atalk_address], router ID: [int], just lost on [chars]
```

**Explanation** A peer router is unreachable.

**Recommended Action** No action is required.

**Error Message**

```
%AT-6-EIGRPPEERUP: AppleTalk EIGRP peer up: [atalk_address], router ID: [int], newly heard on [chars]
```

**Explanation** A new neighbor has appeared on the network.

**Recommended Action** No action is required.

**Error Message**

```
%AT-5-FDDICOMPAT: AppleTalk FDDI neighbor [atalk_address] using obsolete FDDI addressing
```

**Explanation** Another AppleTalk router on the FDDI ring is running a release of the router software earlier than Release 9.0(2). Routers running these early software releases use an encapsulation for AppleTalk on FDDI rings that is not compatible with the Apple FDDITalk implementation.

**Recommended Action** Upgrade the routers running the software releases that use the pre-FDDITalk encapsulation for AppleTalk on FDDI rings.

**Error Message**

```
%AT-3-IFCONFLICT: [chars]: AppleTalk interface disabled; conflicts with interface [chars]
```

**Explanation** An attempt has been made to configure an interface to have the same AppleTalk address or cable range as another interface on the same router or a conflicting address.

**Recommended Action** Verify that you are not specifying an AppleTalk address or cable range used previously on this router, and reconfigure the interface.

**Error Message**

%AT-5-INTCLEARED: [chars]: AppleTalk interface restarting; interface cleared

**Explanation** A **clear interface** command has been issued on an interface that is currently routing AppleTalk.

**Recommended Action** No action is required.

**Error Message**

%AT-5-INTDOWN: [chars]: AppleTalk node down; line protocol down

**Explanation** An AppleTalk hardware interface has been disabled because of a bad serial line, a configuration command, or a bad interface. If the interface was not disabled intentionally, this message indicates a hardware problem.

**Recommended Action** Repair or replace the affected hardware.

**Error Message**

%AT-5-INTRESTART: [chars]: AppleTalk interface restarting; protocol restarted

**Explanation** The hardware interface was reset because of a configuration change. After the reset, AppleTalk automatically reinitialized the interface.

**Recommended Action** No action is required.

**Error Message**

%AT-6-INTUP: [chars]: AppleTalk interface restarting; line protocol came up

**Explanation** An AppleTalk interface that was previously shut down has been restarted.

**Recommended Action** No action is required.

**Error Message**

%AT-3-INVNBPCMD: Invalid NBptest command [chars]

**Explanation** An unrecognized command was specified in the NBP test facility.

**Recommended Action** Enter a valid command.

**Error Message**

%AT-5-LOSTNEIGHBOR: [chars]: AppleTalk neighbor down; lost contact with [atalk\_address]

**Explanation** A peer router is unreachable.

**Recommended Action** No action is required.

**Error Message**

%AT-6-MACIPDOWN: [chars]: MacIP server shutting down, [IP\_address]

**Explanation** If the **appletalk event-logging** command is configured, this message appears on the console when a MacIP server is no longer operational for any reason. MacIP servers shut down in response to MacIP configuration changes or errors or to a change in the condition or configuration of an AppleTalk or IP interface for which the MacIP server is providing service. The AppleTalk zone served by the MacIP server replaces the zone specified in the **appletalk zone** command. The IP address configured on the MacIP server replaces the IP address configured by the **ip address** command.

**Recommended Action** No action is required.

**Error Message**

%AT-4-MACIPNOCABLE: [chars]: MacIP inoperable IP interface, [IP\_address]

**Explanation** If the **appletalk event-logging** command is configured, this message appears on the console when a MacIP server can no longer operate because of a change in the condition of the IP interface it serves. This condition can occur if IP routing is shut down on the interface or if the IP address of the interface is changed so that the IP address of MacIP server is no longer valid on the same cable. The AppleTalk zone served by the MacIP server replaces the zone specified in the **appletalk zone** command. The IP address configured on the MacIP server replaces the IP address configured by the **ip address** command.

**Recommended Action** No action is required.

**Error Message**

%AT-6-MACIPUP: [chars]: MacIP server operational, [IP\_address]

**Explanation** If the **appletalk event-logging** command is configured, this message appears on the console when a MacIP server is fully initialized and is ready to accept client requests. The AppleTalk zone served by the MacIP server replaces the zone specified in the **appletalk zone** command. The IP address configured on the MacIP server replaces the IP address configured by the **ip address** command.

**Recommended Action** No action is required.

**Error Message**

%AT-3-MCMISMATCH: [chars]: AppleTalk interface warning; zone multicast [enet] differs from our multicast [enet]

**Explanation** A computed multicast address disagrees with that provided by another AppleTalk router. The other AppleTalk router may be misconfigured or faulty.

**Recommended Action** Correct the problem at the other router.

**Error Message**

%AT-6-NBRDELETED: Neighbor entry for [atalk\_address] deleted

**Explanation** The **clear appletalk neighbor** command displays this message when it is completed.

**Recommended Action** No action is required.

**Error Message**

%AT-6-NEIGHBORUP: [chars]: AppleTalk neighbor up; [atalk\_address] has restarted

**Explanation** A neighboring router to which this router previously lost connectivity has reappeared on the network.

**Recommended Action** No action is required.

**Error Message**

%AT-3-NETDISAGREES: [chars]: AppleTalk interface disabled; network incompatible with [atalk\_address]

**Explanation** The interface has been disabled because the configured AppleTalk address or cable range for the interface conflicts with that of another router on the attached network.

**Recommended Action** Reconfigure the affected routers so that there are no conflicting addresses or cable ranges on the attached network.

**Error Message**

%AT-4-NETINVALID: [chars]: AppleTalk node down; conflicts with active internet

**Explanation** The configuration specified for the interface conflicts with the active AppleTalk internetwork. For example, a cable range might be configured in a way that overlaps an existing route but does not match the entry exactly.

**Recommended Action** Use the **appletalk cable-range** command to reconfigure the interface so that there are no conflicts with the existing AppleTalk network, or take any other actions necessary to resolve the conflict. AppleTalk will periodically attempt to restart the interface.

**Error Message**

%AT-6-NEWNEIGHBOR: [chars]: AppleTalk neighbor added; [atalk\_address] is operational

**Explanation** The router has discovered a new AppleTalk router on the network.

**Recommended Action** No action is required.

**Error Message**

```
%AT-6-NEWROUTE: [chars]: AppleTalk network added; [atalk_net] via [atalk_address] ([dec] hop [chars])
```

**Explanation** A new AppleTalk route has been learned. The message indicates the source of the route and its distance in hops.

**Recommended Action** No action is required.

**Error Message**

```
%AT-6-NEWZONE: AppleTalk zone added; zone [chars] defined
```

**Explanation** A new AppleTalk zone has been created.

**Recommended Action** No action is required.

**Error Message**

```
%AT-3-NOADDRSAVAIL: [chars]: AppleTalk node down; no addresses available
```

**Explanation** A free node could not be found on the interface.

**Recommended Action** If your AppleTalk network has fewer than 250 nodes, issue the **debug appletalk errors** command and then call your Cisco technical support representative. If your AppleTalk network has more than 250 nodes, split it into smaller networks by creating new segments and moving some nodes into the new segments.

**Error Message**

```
%AT-3-NOBESTPATH: Could not compute best path for network [atalk_net]
```

**Explanation** A path to the specified network could not be found.

**Recommended Action** Use the **show appletalk route** command to verify that a path to the specified network exists. If it does, copy the error message exactly as it appears, and report it along with the output of the **show appletalk route** command to your technical support representative.

**Error Message**

```
%AT-6-NODEWRONG: [chars]: AppleTalk node [atalk_address] misconfigured; reply has been broadcast
```

**Explanation** An AppleTalk node has sent a GetNet Info request to this router specifying an invalid network number for the source of the GetNet Info request. This situation occurs when an AppleTalk end node is moved to another network and is therefore misconfigured for the current network.

**Recommended Action** No action is required.

**Error Message**

%AT-1-NOMEM: Could not allocate memory for [chars] at line [dec] in [chars]

**Explanation** An internal software error has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%AT-6-NOPROXY: AppleTalk proxy deleted; zone [chars] freed network [atalk\_net]

**Explanation** A previously configured NBP proxy has been deleted. The router can no longer convert NBP requests to a format understood by routers that support only the original AppleTalk specification.

**Recommended Action** No action is required.

**Error Message**

%AT-3-NOROUTE: No route to destination [atalk\_address]

**Explanation** The router could not deliver a packet to a destination because it did not know where to send it.

**Recommended Action** Use the **show appletalk route** command to verify that a path to the destination exists. If it does, copy the error message exactly as it appears, and report it with the output of the **show appletalk route** command to your Cisco technical support representative.

**Error Message**

%AT-3-NOSRCADDR: [chars]: AppleTalk packet error; no source address available

**Explanation** The router could not generate an AppleTalk packet because no valid AppleTalk source address was available to identify this router in the packet.

**Recommended Action** Configure an interface to have an address or cable range. Use the **show appletalk** command to verify that the interface is operational.

**Error Message**

%AT-3-NOSUCHNBR: No such neighbor, [atalk\_address]

**Explanation** The user has specified a nonexistent neighbor address in a **show appletalk neighbor** or **clear appletalk neighbor** command.

**Recommended Action** Specify a valid neighbor address that appears in the output of the **show appletalk neighbor** command.

**Error Message**

%AT-5-NOSUCHROUTE: No such route [dec]

**Explanation** The user has specified a nonexistent route in a **show appletalk route** or **clear appletalk route** command.

**Recommended Action** Specify a valid route that appears in the output of the **show appletalk route** command.

**Error Message**

%AT-3-NOTRUNNING: AppleTalk not running

**Explanation** The user tried to show or change the AppleTalk configuration when AppleTalk routing was not turned on.

**Recommended Action** Issue the **appletalk routing** command before issuing any other AppleTalk configuration or display command.

**Error Message**

%AT-5-NOTSUPPORTED: [chars]: AppleTalk node down; line protocol not supported

**Explanation** An encapsulation method on the specified interface does not support AppleTalk.

**Recommended Action** No action is required.

**Error Message**

%AT-3-NOVIRTUAL: [chars]: client tried to connect, but no virtual network is declared

**Explanation** A hardware or software error has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%AT-5-OLDMCI: [chars]: AppleTalk route cache disabled; firmware is obsolete

**Explanation** The firmware on the MCI controller card does not support AppleTalk fast switching.

**Recommended Action** No corrective action is required. Normal AppleTalk operation continues, but the fast-switching cache is disabled for the interface associated with the MCI card. If this message is unexpected, verify that the MCI firmware for the interface specified in the error message is at level 1.7 or higher.

**Error Message**

%AT-6-ONLYROUTER: [chars]: AppleTalk interface enabled; no neighbors found

**Explanation** No other AppleTalk routers were found on the network attached to the interface.

**Recommended Action** No action is required.

**Error Message**

%AT-3-OUTOFSYNC: [chars]: AURP connection out of sync...terminating

**Explanation** AURP has detected packets that were out of sequence. This situation might be caused by a lost connection.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%AT-6-PATHADD: [chars]: AppleTalk [chars] path to network [atalk\_net] added; via [atalk\_address] (metric [dec])

**Explanation** A new AppleTalk path has been learned. The message indicates the source of the path, its distance in hops, its metric, and the type of path.

**Recommended Action** No action is required.

**Error Message**

%AT-5-PATHCHANGE: Route to [atalk\_net] is now using path of type [chars] on [chars] via [atalk\_address]

**Explanation** The path to a network has changed because either the old path went down or a better path has been found.

**Recommended Action** No action is required.

**Error Message**

%AT-6-PATHDEL: [chars]: AppleTalk [chars] path to [atalk\_net] via [atalk\_address] has been deleted

**Explanation** A path on the AppleTalk network has aged out.

**Recommended Action** No action is required.

**Error Message**

```
%AT-6-PATHNOTIFY: [chars]: AppleTalk [chars] path to [atalk_net] down; reported bad by [atalk_address]
```

**Explanation** A router has gone down somewhere on the AppleTalk network. The indicated peer notified this router of the change.

**Recommended Action** No action is required.

**Error Message**

```
%AT-4-PATHREJECTED: AURP path [atalk_net] rejected; conflict detected
```

**Explanation** The router has detected a conflicting cable range. A router is configured to have a cable range that overlaps with an existing range but does not match the entry exactly.

**Recommended Action** Use the **show appletalk** command to identify the overlapped cable range, and then reconfigure the misconfigured router.

**Error Message**

```
%AT-6-REGPENDING: NBP registration of [chars] at [[chars]] pending
```

**Explanation** A name registration call is being performed.

**Recommended Action** No action is required.

**Error Message**

```
%AT-6-ROUTEDOWN: [chars]: AppleTalk network down; interface to [atalk_net] disabled
```

**Explanation** A connected route is being advertised as down (“notify neighbor”) because the configured interface is no longer operational.

**Recommended Action** No action is required.

**Error Message**

```
%AT-6-ROUTENOTIFY: [chars]: AppleTalk network down; [atalk_net] reported bad by [atalk_address]
```

**Explanation** A router has gone down somewhere on the AppleTalk network. The indicated peer notified this router of the change.

**Recommended Action** No action is required.

**Error Message**

```
%AT-6-ROUTEOK: [chars]: AppleTalk network up; [atalk_net] via [atalk_address] ([dec] hop [chars])
```

**Explanation** A routing update has been received for a previously suspect route.

**Recommended Action** No action is required.

**Error Message**

%AT-5-RTMPSTATE: [chars]: RTMP path to [atalk\_net] via [atalk\_address] now in [chars] state (metric [dec], [dec] hops)

**Explanation** The state of a path has changed.

**Recommended Action** No action is required.

**Error Message**

%AT-3-SUBROUTINE\_ERROR: AppleTalk error: [chars]

**Explanation** An internal error has occurred. Specifically, a programming assertion in the AppleTalk networking code was violated.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%AT-3-ZONEDISAGREES: [chars]: AppleTalk interface disabled; zone list incompatible with [atalk\_address]

**Explanation** The zone list of the configured interface is inconsistent with the zone list of other routers.

**Recommended Action** Reconfigure the zone list on the router so that it does not conflict with the zone lists on other routers.

**Error Message**

%AT-6-ZONEGC: AppleTalk zone deleted; zone [chars] released

**Explanation** The router has removed an unused zone from the zone table.

**Recommended Action** No action is required.

**Error Message**

%AT-6-ZONEPROXY: AppleTalk proxy defined; zone [chars] using network [atalk\_net]

**Explanation** This message reports the zone name and network number that are being advertised to support the **appletalk nbp-proxy command**. When proxy service is initiated, this message is generated each time the **appletalk nbp-proxy** command is issued.

**Recommended Action** No action is required.

# ATM Messages

The following are Asynchronous Transfer Mode (ATM) messages.

## Error Message

```
%ATM-5-ATMSOFTSTART: Restarting ATM signalling and ILMI on [chars].
```

**Explanation** The command just entered causes ATM soft restart.

**Recommended Action** Wait for ATM signaling and ILMI to restart.

## Error Message

```
%ATM-2-FAILATMSWDB: Fail malloc atm_swdb at [chars]
```

**Explanation** System memory exhaustion has caused an internal software error in the ATM subsystem.

**Recommended Action** If the system exhibits any unexpected behavior as a result of this memory exhaustion, it may have to be reset to clear the error. Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

## Error Message

```
%ATM-3-FAILCREATEVC: ATM failed to create VC(VCD=[dec], VPI=[dec], VCI=[dec]) on  
Interface [chars], (Cause of the failure: [chars])
```

**Explanation** This message can occur for the following unrelated reasons. Each reason is accompanied by a recommended action.

- The VCD exceeded the maximum available memory. Use a smaller VCD number.
- ARP is allowed only on AAL5-SNAP virtual circuits. Change the encapsulation to AAL5SNAP.
- The VPI-VCI pair or the VCD is already in use. Use a different VPI-VCI or VCD number.
- Only one VCC is allowed on a point-to-point interface. Use a different subinterface.
- AAL3/4-SMDS virtual circuit must be the only virtual circuit on an interface. Turn off AAL3/4.
- AAL3/4-SMDS MID exceeds the maximum. Use a smaller MID value.
- SMDS is not enabled. Enable SMDS.
- The driver failed to accept the virtual circuit. Initiate the virtual circuit again.

**Recommended Action** If none of the listed actions fixes the problem, copy the error message exactly as it appears and report it to your Cisco technical support representative.

**Error Message**

%ATM-5-ILMIACCFILTER: New access filter setting will be applied to registration of new addresses on [chars].

**Explanation** The command just entered sets up new ILMI access filter for address registration. It affects only new addresses to be registered. The addresses already registered will not be affected.

**Recommended Action** Enter the **shutdown** command followed by the **no shutdown** command on this interface to restart address registration if you need to remove addresses already registered but not permitted by the new access filter.

**Error Message**

%ATM-5-ILMIADDREG: Address registration on [chars] is enabled. It will be initiated at next interface restart.

**Explanation** The command just entered enables ATM address registration.

**Recommended Action** Enter the **shutdown** command followed by the **no shutdown** command on this interface if you must start address registration immediately; otherwise, wait for the next interface restart.

**Error Message**

%ATM-6-ILMIAUTOCFGALREADY: ILMI([chars]): Auto-configuration already enabled.

**Explanation** ATM autoconfiguration has already been enabled. The **atm auto-configuration** command just entered is ignored.

**Recommended Action** No action is required.

**Error Message**

%ATM-4-ILMICONFIGCHANGE: ILMI([chars]): Restarting ATM signalling and ILMI. Peer Configuration change detected.

**Explanation** The configuration of an adjacent peer device has been changed.

**Recommended Action** Wait for the interface to restart itself.

**Error Message**

%ATM-5-ILMIDEFACCFILTER: New global default access filter setting will be applied to registration of new addresses on interfaces using global default access filter.

**Explanation** The command just entered sets up a new global default access filter for address registration. It affects only new addresses to be registered on interfaces using the global default. The addresses that are already registered will not be affected.

**Recommended Action** Enter the **shutdown** command followed by the **no shutdown** command on the desired interfaces to restart address registration if you must remove addresses already registered but not permitted by the new global default access filter.

**Error Message**

```
%ATM-4-ILMIKEEPALIVEFAIL: ILMI([chars]): Restarting ATM signalling and ILMI.  
Keepalive failure detected.
```

**Explanation** The adjacent peer device is not responding to ILMI keepalive polling.

**Recommended Action** Check the connection of the ATM interface and the status of the adjacent peer device. Correct them if necessary. Monitor the system to check if ILMI keepalive comes up again. If this message recurs, copy the message exactly as it appears on the console or in the system log, call your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

```
%ATM-6-ILMINOAUTOCFG: ILMI([chars]): Auto-configuration is disabled, current  
interface parameters will be used at next interface restart.
```

**Explanation** The command just entered causes autoconfiguration to be disabled. The most recently entered interface parameters will be used at the next interface restart.

**Recommended Action** Note which parameters have been configured.

**Error Message**

```
%ATM-6-ILMINOAUTOCFGALREADY: ILMI([chars]): Auto configuration already disabled.
```

**Explanation** ATM autoconfiguration has been enabled already. The **no atm auto-configuration** command just entered is ignored.

**Recommended Action** No action is required.

**Error Message**

```
%ATM-4-MTUCALLMISMATCH: Call from:  
ATM NSAP - [chars]  
has mismatched PDU size - forward size is [dec]  
- backward size is [dec],  
int [chars] PDU size [chars] [chars]
```

**Explanation** The calling or called party has an MTU size configured that is different from the MTU size on the current interface.

**Recommended Action** Either change the configured MTU size on the current interface to that of the calling or called party's interface or change the calling or called party's interface to match the current interface.

**Error Message**

%ATM-1-NOPUSRAM: Unit [dec], not enough interface memory

**Explanation** The specified ATM interface hardware has run out of interface memory.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%ATM-3-OUT\_OF\_VCDS: ATM failed to create VC on Interface [chars]

**Explanation** The ATM subsystem has run out of the internal resources necessary to create a new virtual circuit. This situation may indicate a software error.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATM-3-OVERSUBSCRIBED: Interface [chars]: Total [chars] allocation [int][chars] exceeded maximum [chars] of [int][chars].

**Explanation** A software or hardware error has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATM-4-UNMATCHUNIVERSION: ([dec]/[dec]/[dec]:[dec]): [chars]. Please verify peer UNI version

**Explanation** The ATM peer equipment appears to be running an old version of ATM UNI and communication with it is not possible.

**Recommended Action** The peer equipment needs to be upgraded in order to communicate with this system.

**Error Message**

%ATM-3-UNSUPPORTED\_QOS\_PARAMS: ATM failed to create VC on Interface [chars]

**Explanation** Either the configuration contains invalid traffic shaping parameters or the software has run out of rate queues.

**Recommended Action** Check the configuration for errors.

**Error Message**

%ATM-5-UPDOWN: Changing VC [dec]/[dec] VC-state to [chars]

**Explanation** The ATM VC is either created, removed, activated, or deactivated.

**Recommended Action** No action is required if the status change is intended; otherwise, note the cause for the status change. Entering the **shutdown** command followed by the **no shutdown** CLI command deactivates and activates the VC.

**Error Message**

%ATM-4-VPIVCIRANGE: VPI/VCI range parameters are dis-joint on [chars]

**Explanation** The MinSvccVci is greater than the MaxVci, after negotiation with the peer through ILMI.

**Recommended Action** Disable autoconfiguration on both sides and change the port configuration appropriately so that SVCCs can be set up.

## ATMCES Messages

The following are ATM access concentrator protocol control information (PCI) port adapter driver messages.

**Error Message**

%ATMCES-1-BAD1575: The 1575 device could not be initialized on bay [dec], shutting down bay

**Explanation** The port adapter has failed its initialization.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMCES-3-BADALTERACONFIG: Couldn't configure the Altera, DIO not reset

**Explanation** The port adapter has failed its initialization.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMCES-3-BADALTERAINIT: Couldn't initialize the Altera, DIO not set

**Explanation** The port adapter has failed its initialization.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMCES-3-BADBRDGCFG: Couldn't get bridge configuration: [chars]

**Explanation** The bridge configuration has failed.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMCES-1-BADPATYPE: Invalid Port Adapter Hardware Type Type=[dec]

**Explanation** The port adapter ID is incorrect.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMCES-1-BADSLAVE: The Slave device could not be initialized on bay [dec], shutting down bay

**Explanation** The port adapter has failed its initialization.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMCES-1-ERRCREATEVC: The 1575 device failed to create VC [dec], file:[chars] line:[dec]

**Explanation** The port adapter has encountered errors in setting up the VC.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

```
%ATMCES-1-ERRRMVC: The 1575 device not totally clean in removing VC [dec],  
file:[chars] line:[dec]
```

**Explanation** The port adapter has encountered errors in shutting down the VC. This may affect future VC creation.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

```
%ATMCES-3-NOTATMCESDEV: Device reported [hex]
```

**Explanation** The PCI device ID was not correct.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

## ATMCORE Messages

The following are ATM core messages.

**Error Message**

```
%ATMCORE-4-ATM_SYS_ERROR: [chars]
```

**Explanation** The ATM core subsystem has encountered an internal software error. The error message contains text that can be used to help identify the nature of the problem.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%ATMCORE-2-INTERNAL_CRITICAL: [chars]
```

**Explanation** The ATM core subsystem has encountered an internal software error. The error message contains text that can be used to help identify the nature of the problem.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%ATMCORE-3-INTERNAL\_ERROR: [chars]

**Explanation** The ATM core subsystem has encountered an internal software error. The error message contains text that can be used to help identify the nature of the problem.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%ATMCORE-4-INTERNAL\_WARNING: [chars]

**Explanation** The ATM core subsystem has encountered an internal software error. The error message contains text that can be used to help identify the nature of the problem.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

## ATMOC3 Messages

The following are ATM OC-3 network module messages.

**Error Message**

%ATMOC3-1-DISCOVER: The Network Module in slot [dec] did not initialize.

**Explanation** The network module has failed its initialization.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%ATMOC3-1-GENERAL: [chars] error.

**Explanation** A nonrecoverable error has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%ATMOC3-1-INITFAIL: The Network Module in slot [dec] failed to initialize (cause [chars]).

**Explanation** The network module has failed its initialization.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%ATMOC3-1-INVALID\_PCI\_ID: The network module hardware reports an invalid [chars] device id of [hex].

**Explanation** The ATMOC3 network module hardware may have failed.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%ATMOC3-1-PCMCIA: The ATM Network Module in slot [dec] is incompatible with the PCMCIA controller in the router.

**Explanation** The PCMCIA controller contains downlevel software.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log and contact your Cisco technical support representative for upgrade information.

**Error Message**

%ATMOC3-1-PVP: [chars] traffic type not allowed in a PVP.

**Explanation** The specified traffic type cannot be configured in a PVP.

**Recommended Action** Either change the traffic type of this VC or remove it from the PVP.

**Error Message**

%ATMOC3-1-PVP\_VC: Failed to activate F4 [chars] VC. PVP [dec].

**Explanation** The required control VC was not established.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

```
%ATMOC3-1-TOOBIG: [chars], packet(size [dec]) too big.
```

**Explanation** A packet greater than 256 bytes has been received on this interface.

**Recommended Action** The system should recover. No action is required. If the problem recurs, the error might be related to data traffic patterns. Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

## ATMPA Messages

The following are ATM port adapter messages.

**Error Message**

```
%ATMPA-3-BADPARTICLE: [chars]: bad rx particle [hex] flags [hex] index [dec]
```

**Explanation** The PA host driver has detected a duplicate Rx host buffer returned.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

```
%ATMPA-3-BADVCD: [chars] bad vcd [dec] packet -  
[hex] [hex] [hex] [hex] [hex] [hex]
```

**Explanation** The port adapter has received a packet on a nonexistent VC.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

```
%ATMPA-5-BADVCSETUP: ti1570_vc_setup failed. (vci [dec] of the lastvpi [dec]  
exceeds (vc-per-vp - 3)).
```

**Explanation** The TI1570 chip reserves three Rx DMA channels for OAM cells. As a result, the last three VCIs of the last VPI block cannot be used for regular traffic.

**Recommended Action** Do not try different VCI and VPI combinations.

**Error Message**

%ATMPA-3-CMDFAIL: [chars] Command Failed at [chars] - line [dec], arg [dec]

**Explanation** The port adapter has failed to process a command.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-1-CTRLMEMFAIL: [chars] control memory bad [dec]

**Explanation** A memory test failed within the PCI control memory. This error probably indicates a memory chip has failed.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-7-CWREG00: [chars] [hex], [chars] [hex], [chars] [hex], [chars] [hex]

**Explanation** This message indicates that a SAR CW4010 registers dump has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-7-CWREG01: [chars] [hex], [chars] [hex], [chars] [hex], [chars] [hex]

**Explanation** This message indicates that a SAR CW4010 registers dump has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-7-CWREG02: [chars] [hex], [chars] [hex], [chars] [hex], [chars] [hex]

**Explanation** This message indicates that a SAR CW4010 registers dump has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-7-CWREG03: [chars] [hex], [chars] [hex], [chars] [hex], [chars] [hex]

**Explanation** This message indicates that a SAR CW4010 registers dump has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-7-CWREG04: [chars] [hex], [chars] [hex], [chars] [hex], [chars] [hex]

**Explanation** This message indicates that a SAR CW4010 registers dump has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-7-CWREG05: [chars] [hex], [chars] [hex], [chars] [hex], [chars] [hex]

**Explanation** This message indicates that a SAR CW4010 registers dump has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-7-CWREG06: [chars] [hex], [chars] [hex], [chars] [hex], [chars] [hex]

**Explanation** This message indicates that a SAR CW4010 registers dump has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-7-CWREG07: [chars] [hex], [chars] [hex], [chars] [hex], [chars] [hex]

**Explanation** This message indicates that a SAR CW4010 registers dump has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

```
%ATMPA-3-DISCOVER: found [dec] interfaces on bay [dec] (device ID [hex])
```

**Explanation** The software could not identify the interface card.

**Recommended Action** Power down the system, reseal the interface card, and reboot. If the error message recurs, copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

```
%ATMPA-1-GIANTPAK: [chars] vc [dec] received a giant packet size [dec] -  
[hex] [hex] [hex] [hex] [hex] [hex]
```

**Explanation** The port adapter has received a packet that is larger than the maximum size allowed (a giant packet).

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

```
%ATMPA-3-INITFAIL: ATMPA (bay [dec]), Init Failed at [chars] - line [dec]
```

**Explanation** The port adapter has failed to complete hardware initialization.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

```
%ATMPA-1-INVALIDCONFIG: VIP2-40 and below only supports one OC-3 ATM PA. The other  
PA bay needs to be emptied in order for the ATM PA to function.
```

**Explanation** The bandwidth requirements of the installed port adapters exceed the rated capability of the processor.

**Recommended Action** Either remove one of the port adapters or upgrade the VIP.

**Error Message**

%ATMPA-2-INVDEVICE: Slot [dec] device is invalid (ID [hex])

**Explanation** The ATM Deluxe PCI driver found an incorrect PCI device ID during initialization. This message could indicate that a hardware failure has caused an actual failure to read the ID, or that the software needs to be upgraded to support hardware that did not exist yet when the software was written.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-7-MISC0: 00 [hex], 01 [hex], 02 [hex], 03 [hex]

**Explanation** This message indicates that a SAR miscellaneous dump has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-7-MISC1: 04 [hex], 05 [hex], 06 [hex], 07 [hex]

**Explanation** This message indicates that a SAR miscellaneous dump has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-7-MISC2: 08 [hex], 09 [hex], 10 [hex], 11 [hex]

**Explanation** This message indicates that a SAR miscellaneous dump has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-7-MISC3: 12 [hex], 13 [hex], 14 [hex], 15 [hex]

**Explanation** This message indicates that a SAR miscellaneous dump has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-3-NOTTI1570: Slot [dec] device is not TI1570 (ID [hex])

**Explanation** The driver has found an unexpected device type in the specified PCI slot. If the device is a TI1570, then a hardware failure may have occurred.

**Recommended Action** Power down the system, reseal the interface card, and reboot. If the error message recurs, copy the message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-3-NOTXDESCSPACE: [chars] No tx descriptor space in buffer, data block [hex], data start [hex]

**Explanation** The driver could not allocate memory for a packet. This message is probably caused by memory exhaustion.

**Recommended Action** Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

**Error Message**

%ATMPA-3-PCIMEMNOTENOUGH: Only [hex] bytes of memory available for [chars]

**Explanation** The port adapter needs more PCI memory. The installed amount is less than the amount required by the drivers for packet buffers.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-3-PCI\_PERROR: TI1570 unit [dec]: PCI parity error ([hex])

**Explanation** A parity error has occurred on the PCI bus. This message probably indicates an existing or developing hardware failure.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-7-REG00: [chars] [hex], [chars] [hex], [chars] [hex]

**Explanation** This message indicates that a SAR APU registers dump has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-7-REG01: [chars] [hex], [chars] [hex], [chars] [hex]

**Explanation** This message indicates that a SAR APU registers dump has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-7-REG02: [chars] [hex], [chars] [hex], [chars] [hex]

**Explanation** This message indicates that a SAR APU registers dump has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-7-REG03: [chars] [hex], [chars] [hex], [chars] [hex]

**Explanation** This message indicates that a SAR APU registers dump has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-1-REGFAIL: register [hex] write value [hex] but read [hex]

**Explanation** The port adapter has failed to write a register.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-1-RPTFAIL: [chars] failed to send report [dec] at [chars] - line [dec]

**Explanation** The port adapter has failed to send a report from the VIP.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-3-RXDMANOTINACT: RX DMA entry [hex] not going inactive

**Explanation** A receive DMA channel failed to deactivate during the shutdown of a virtual circuit. This failure could originate in either the hardware or software.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-3-RXFREEZE: [chars]: receive freeze [dec]

**Explanation** Excessive traffic congestion on the ATM interface may have resulted in cell loss. The cell buffers of the PCI-ATM interface were full when a cell arrived on the interface, resulting in a receive freeze condition.

**Recommended Action** If this message recurs, copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-3-SARCRASH: [chars]: SAR[dec] Chip Crashdump:

**Explanation** The SAR chip has crashed, and the interface is being reset.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-3-TXDMANOTFLUSHED: TX DMA not flushed

**Explanation** A transmit DMA channel has failed to flush its buffers during the shutdown of an ATM interface. This failure could originate in either the hardware or software.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-3-TXFREEZE: [chars]: transmit freeze [dec]

**Explanation** The PCI-ATM interface had to stop the transmitter while waiting for data.

**Recommended Action** If this message recurs, copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMPA-3-UNSUPPORTED: [chars]: Non supported command

**Explanation** An attempt was made to configure a rate queue on an ATM Lite port adapter that does not support rate queues.

**Recommended Action** Check the configuration and try again, avoiding unsupported features.

## ATMSIG Messages

The following are ATM signaling subsystem error messages

**Error Message**

%ATMSIG-3-ATMSIG\_CUG\_DELETE\_FAILED: ATMSIG([chars])

**Explanation** A software error occurred during the removal of a member from a closed user group. Other error messages appearing immediately prior to this one may be related.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%ATMSIG-3-ATMSIG\_CUG\_INSERT\_FAILED: ATMSIG([chars])

**Explanation** A software error has occurred during the addition of a member to a closed user group. Other error messages appearing immediately prior to this one may be related.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%ATMSIG-3-ATMSIG\_LISTEN\_FAILED\_DUP: Duplicate LISTEN by [chars] for existing NSAP [chars] owned by [chars]

**Explanation** An application attempted either to LISTEN on an NSAP owned by another application or to LISTEN for the same NSAP twice.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%ATMSIG-3-ATMSIG_PRTY_DELETE_FAILED: ATMSIG([chars] [dec],[dec] - [dec]/[dec])  
avl prty del failed:svc [hex] party [hex]
```

**Explanation** A software error occurred during the removal of a party from a point-to-multipoint call. Other error messages appearing immediately prior to this one may be related.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%ATMSIG-3-ATMSIG_PRTY_INSERT_FAILED: ATMSIG([chars] [dec],[dec] - [dec]/[dec])  
avl prty ins failed:svc [hex] party [hex]
```

**Explanation** A software error occurred during the addition of a party to a point-to-multipoint call. Other error messages appearing immediately prior to this one may be related.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%ATMSIG-3-ATMSIG_SVC_DELETE_FAILED: ATMSIG([chars] [dec],[dec] - [dec]/[dec]) SVC  
wavl del failed:svc [hex]
```

**Explanation** A software error occurred during the closure of an SVC. Other error messages appearing immediately prior to this one may be related.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%ATMSIG-3-ATMSIG_SVC_INSERT_FAILED: ATMSIG([chars] [dec],[dec] - [dec]/[dec]) SVC  
wavl ins failed:svc [hex]
```

**Explanation** A software error occurred during the creation of an SVC. Other error messages appearing immediately prior to this one may be related.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%ATMSIG-4-CONFIG_ERROR: Configuration Error: [chars] [chars]
```

**Explanation** This message indicates that a configuration error has occurred in the ATM Signaling subsystem. The message will display more specific information about the problem location.

**Recommended Action** Change the configuration to correct the error.

**Error Message**

```
%ATMSIG-3-DBINITFAIL: Signalling control block initialization failure, [chars]
```

**Explanation** An internal software or resource error has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

```
%ATMSIG-3-ENQFAIL: process_enqueue failed, [chars]
```

**Explanation** An internal software error occurred while a user request was being handled.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%ATMSIG-3-FAIL1STHALFLEG: 1st halfLeg failed, [chars]

**Explanation** An internal software error has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%ATMSIG-3-FAIL2NDHALFLEG: 2nd halfLeg failed, [chars]

**Explanation** An internal software error has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%ATMSIG-3-FAILASSERT: Assertion failed: [chars]

**Explanation** An internal software error has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%ATMSIG-3-FAILHALFLEGREM: halfLeg removal failed, [chars]

**Explanation** An internal software error has occurred. This message should be displayed only when verbose debugging is enabled for an SVC.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%ATMSIG-3-FAILXCONN: Xconnect failed, [chars]

**Explanation** An internal software error occurred during the installation of an SVC cross-connect.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%ATMSIG-3-INVPNNIMSG: Invalid msg from routing/pnni : [chars]

**Explanation** This message indicates that an error has occurred in the PNNI routing subsystem. It could be caused by an internal software error or by bad control information received from the peer equipment. The message will contain additional information that can help locate the cause. Any message with “NULL” probably indicates a problem with this system; other messages probably indicate a problem with the peer equipment.

**Recommended Action** Check this system and the peer equipment for any obvious errors. If this message recurs, copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%ATMSIG-3-NOCALLREF: Cannot find a Callref value to allocate: [chars]

**Explanation** An internal software error, probably including memory exhaustion, has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%ATMSIG-3-NOSVC: no SVC, [chars]

**Explanation** An internal software error has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

# ATMSSCOP Messages

The following are ATM Service Specific Connection Oriented Protocol (SSCOP) messages.

## Error Message

```
%ATMSSCOP-3-SSCOPERR: INIT SSCOP -
Intf : [chars], Event : [chars], State : [chars].
```

**Explanation** A software error has occurred in the ATM SSCOP subsystem.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

## Error Message

```
%ATMSSCOP-5-SSCOPINIT: - Intf : [chars], Event : [chars], State : [chars].
```

**Explanation** This message indicates a routine step of the ATM SSCOP initialization sequence.

**Recommended Action** No action is required.

## Error Message

```
%ATMSSCOP-4-UNMATCHUNIVERSION: ([chars]): [chars]. Please verify peer UNI version
```

**Explanation** The ATM peer equipment appears to be running an old version of ATM UNI. Communication with it is not possible.

**Recommended Action** The ATM peer equipment may need attention. Verify that the version of ATM UNI is at least Version 3.1 and upgrade if necessary.

# ATUC Messages

The following are ATUC messages.

## Error Message

```
%ATUC-3-IPC_LC_IDPROM_READ: IPC error reading ID prom: Slot [dec]
```

**Explanation** The line card is unable to respond with information regarding the card.

**Recommended Action** Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at <http://www.cisco.com/tac>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at [http://www.cisco.com/cgi-bin/Support/Bugtool/launch\\_bugtool.pl](http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet at <http://tools.cisco.com/ServiceRequestTool/create>, or contact your Cisco technical support

representative and provide the representative with the information you have gathered. Attach the following information to your case in nonzipped, plain-text (.txt) format: the output of the **show logging** and **show tech-support** commands and your pertinent troubleshooting logs.

**Error Message**

```
%ATUC-3-IPC_LC_IDPROM_WRITE: IPC error writing ID prom: Slot [dec]
```

**Explanation** The line card is unable to record information regarding the card in the IDPROM.

**Recommended Action** Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at <http://www.cisco.com/tac>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at [http://www.cisco.com/cgi-bin/Support/Bugtool/launch\\_bugtool.pl](http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet at <http://tools.cisco.com/ServiceRequestTool/create>, or contact your Cisco technical support representative and provide the representative with the information you have gathered. Attach the following information to your case in nonzipped, plain-text (.txt) format: the output of the **show logging** and **show tech-support** commands and your pertinent troubleshooting logs.

**Error Message**

```
%ATUC-3-LC_IDPROM_READ: Error reading ID prom: Slot [dec]
```

**Explanation** The line card is unable to respond with information regarding the card.

**Recommended Action** Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at <http://www.cisco.com/tac>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at [http://www.cisco.com/cgi-bin/Support/Bugtool/launch\\_bugtool.pl](http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet at <http://tools.cisco.com/ServiceRequestTool/create>, or contact your Cisco technical support representative and provide the representative with the information you have gathered. Attach the following information to your case in nonzipped, plain-text (.txt) format: the output of the **show logging** and **show tech-support** commands and your pertinent troubleshooting logs.

# AUTORP Messages

The following are Protocol Independent Multicast version 2 (PIMv2) Auto-Rendezvous Point messages.

## Error Message

```
%AUTORP-4-MANY_RPS: Many items in learned RP queue: [dec]
```

**Explanation** There is an abnormally large number of items in the RP queue. This could indicate that the system CPU is overloaded.

**Recommended Action** Reduce other system activity to ease processor demands. If conditions warrant, consider changes to the network architecture to handle more volume, including upgrading to a larger router.

## Error Message

```
%AUTORP-5-MAPPING: RP for [IP_address]/[dec] is now [IP_address]
```

**Explanation** A new RP has been elected for the subject group prefix.

**Recommended Action** No action is required.

## Error Message

```
%AUTORP-4-PRM_DEL: Error expiring semi-static RP-mapping entry  
([IP_address]/[dec], RP:[IP_address])
```

**Explanation** An internal software error has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

## Error Message

```
%AUTORP-2-RADIXINIT: Error initializing the Auto-RP radix tree
```

**Explanation** An internal software error has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

**Error Message**

%AUTORP-4-RADIXINSERT: Error inserting a new entry into the RP-mapping radix tree

**Explanation** An internal software error has occurred.

**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

## BAP Messages

The following are Point-to-Point Protocol (PPP) Bandwidth Allocation Protocol (BAP) messages.

**Error Message**

%BAP-4-NOSTATE: [chars] [chars] [chars] in illegal state [dec]

**Explanation** An internal software error has occurred.

**Recommended Action** Contact your Cisco technical support representative and report the error message, the system version, and the router configuration. (Use the **show version** command to obtain the software version.)

**Error Message**

%BAP-4-WAVL: Failed to initialize AVL tree, BAP not started

**Explanation** BAP will not be operational and will not be negotiated.

**Recommended Action** Contact your Cisco technical support representative and report the error message, the system version, and the router configuration. (Use the **show version** command to obtain the software version.)

## BCM3220 Messages

The following are cable modem MAC controlled interface messages.

**Error Message**

%BCM3220-3-BADUNIT: Bad unit number [dec]

**Explanation** An internal software error has occurred.

**Recommended Action** If this message recurs, copy the message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

**Error Message**

%BCM3220-1-INITFAIL: Unit [dec], initialization timeout failure, csr[dec]=[hex]

**Explanation** The hardware has failed to initialize correctly.

**Recommended Action** Repair or replace the controller.

**Error Message**

%BCM3220-3-OWNERR: Unit [dec], buffer ownership error, pak = [hex]

**Explanation** An Ethernet interface is malfunctioning, or an internal software error has occurred.

**Recommended Action** Repair or replace the controller.