

AlliedWare™ Operating System Log Message Reference



Allied Telesis
Routers and
Managed Layer 3
Switches

About This Reference

Introduction This Reference provides explanations and recommendations for many of the events logged by Allied Telesis routers and layer 3 switches running AlliedWare software.

Overview of the Reference This Reference is organised into the following sections:

- This section describes the hardware models and software releases covered by this Guide, and where to find more information about your switch or router.
- [“Contents” on page 3](#) is a table of contents
- [“How to Find a Log Message In This Reference” on page 8](#) describes the most efficient ways to find log messages.
- [“Using the Log” on page 9](#) describes how to read log messages, and the log message severity levels, module identifiers and names, and message types and subtypes.
- The rest of the Reference describes the log messages and the recommended actions. Messages are sorted by module and message type.

Models and Software This Reference applies to the following Allied Telesis routers and managed layer 3 switches, running the AlliedWare OS:

- AR300, AR400, and AR700 series routers
- AT-8600, AT-8700XL, AT-8800, Rapier, and Rapier i series switches
- AT-9800 series switches
- AT-8900, AT-9900, and AT-9900s series switches
- x900 series switches
- SwitchBlade 4000 series switches

Where To Find More Information About Your Switch or Router

For more information, see the following documents on the Documentation and Tools CD-ROM packaged with your switch or router. These documents are also available from www.alliedtelesis.com.

- Safety** Before installing the switch or router and any expansion options, read the important safety information in the *Safety and Statutory Information* booklet.
- Installation** Follow the *Quick Install Guides*' step-by-step instructions for physically installing the device and any expansion options.
- Hardware Reference** The *Hardware References* gives detailed information about the equipment hardware.
- Getting Started** For some models a *User Guide* or a *Quick Start Guide* gives help for getting started configuring your device.
- Software Reference** Once you are familiar with the basic operations of the device, use the *Software Reference* for full descriptions of switching or routing features and command syntax.
- To enable and configure logging options see the *Logging Facility* chapter in the *Software Reference*.
 - For information about console messages, see the *Messages* appendix in the *Software Reference*.
- How To Notes** Individual *How To Notes* describe specific solutions, including configuration examples, and overviews of some areas of functionality. They are available from www.alliedtelesis.com/resources/literature/howto.aspx
- GUI Help** The context-sensitive online *GUI help* gives descriptions of each page and element of the GUI (Graphical User Interface).
- Online Technical Support** For online support for your switch or router, see our online support page at www.alliedtelesis.com. If you require further assistance, contact your authorised Allied Telesis distributor or reseller.

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How to Find a Log Message In This Reference

This section describes the most efficient ways to find a log message within this Reference.

For information about how to view and interpret log messages, see [“Using the Log” on page 9](#).

Searching for the message text

For many messages, you can simply search the PDF for part of the message text.

However, note that many log messages include information specific to your system—interface names, port numbers, policy names, etc. In this Reference, we have replaced that information with placeholders. For example, in the following message, the port number is system-specific:

```
03 11:42:40 6 SWIT PINT DOWN Port46: interface is DOWN
```

In the Reference, this message has a title of [“Port: interface is down”](#) and text of:

```
Port <port-number>: interface is DOWN
```

When searching, select a string that does not include system-specific information. In the above example, you could search for “interface is DOWN”.

Finding a message in the Reference

Some messages are almost completely made up of system-specific information, and some text strings are repeated in multiple messages. For such messages, the most efficient approach is to **use the message Module and Type**.

To do this:

1. Identify the Module name and Type from the message. The Module name is the letters in the 4th column of the message (or occasionally it is a number instead). The Type is the 5th column. For example, the Module name is SWIT and the Type is PINT:

```
03 11:42:40 6 SWIT PINT DOWN Port46: interface is DOWN
```

2. Use [“Contents” on page 3](#) to find the chapter that has messages for that Module. Within that chapter, messages are sorted by Type. This lets you find your specific message. Note that a few Modules share the same 4-letter name in log messages (e.g. SWIT and DHCP) There are multiple chapters for these.

This Reference is incomplete

This Reference does not contain all messages. It is a work in progress, which we are gradually expanding. If you cannot find your message, it may not be there.

Using the Log

Configuring Logging

The log records events on your Allied Telesis Layer 3 switch or router. Logging is enabled by default and a log message filter matches all log messages of severity 3 or greater.

You can change, or create, new log output definitions to log the log message types, subtypes, or the severity levels you require.

You can configure logging to send log messages to:

- a temporary log
- a remote syslog server
- a log file in non-volatile storage (NVS) on devices that have NVS.

See the *Logging Facility* chapter in the Software Reference for more information.

Reading Log Messages

Display log To display the contents of the log file, simply use the command:

```
show log
```

This displays a standard log output. For other log display options, see the *Logging Facility* chapter in the Software Reference.

Figure 1: Example output from the **show log** command.

```

Date/Time   S Mod  Type  SType Message
-----
17 10:22:37 2 PPP  ATT   ATTCH ppp0: The IP module has attached
17 10:22:37 2 PPP  ATT   ATTCH ppp1: The IP module has attached
17 10:22:37 7 SYS  REST  NORM  Router startup, version 7.2-00, 21-Jun-1996,
4096k RAM
17 10:22:38 2 PPP  DLINK UP    ppp0: Primary link over syn0 has opened
17 10:22:38 3 PPP  VINT  UP    ppp0: Interface has come up and is able to send
and receive data
17 10:22:38 2 PPP  CIRC  UP    ppp0: IPCP has opened
17 10:31:28 2 CH   CMD   MGR   show log
17 10:36:43 2 CH   CMD   MGR   show log zone=-24:00
17 10:36:43 4 CH   MSG   ERROR Illegal time: 24:00
17 10:43:57 0 LOG
IP, telnet connection accepted from
202.36.163.20
17 10:44:00 3 USER USER  LON   manager login on TTY18
17 10:44:21 2 CH   CMD   MGR   show loge status
17 10:44:21 4 CH   MSG   ERROR Parameter "loge" not recognised
17 10:44:24 2 CH   CMD   MGR   show log status
17 10:44:50 2 CH   CMD   MGR   lo
17 10:44:50 3 USER USER  LOFF  manager logoff on TTY18
-----

```

Figure 2: Parameters displayed in output of the **show log** command .

| Parameter | Meaning |
|-----------|---|
| Date/Time | The date and time the log message was generated. The date is displayed as just the day number (1–31). |
| S | The severity of the log message. See “ <i>Log Message Severity Levels</i> ” on page 11 for a the meaning of each severity level. |
| Mod | The name of the module that generated the log message (see “ <i>Module Identifiers and Names</i> ” on page 12 for a complete list). |
| Type | The message type (see “ <i>Log Message Types and Subtypes</i> ” on page 17 for a complete list). |
| SType | The message subtype (see “ <i>Log Message Types and Subtypes</i> ” on page 17 for a complete list). |
| Message | The contents of the <i>Message</i> field in the log message. For log messages of type IPFILT/PASS, the format of the message text is “ <i>filter-number/entry-number Pass Fail src-ipadd>dest-ipadd protocol src-port>dest-port packet-size:data-size</i> ”. For log messages of type IPFILT/DUMP, the message text contains the first 32 octets of the packet. |

Log Message Severity Levels

The severity levels described in the table below indicate the importance of the logged event.

Table 1: Log message severity levels

| Severity | Value | Description |
|-----------------|--------------|---|
| CRITICAL | 7 | Router operation severely impaired. |
| URGENT | 6 | Router operation has been or could be affected. |
| IMPORTANT | 5 | Issue that requires manager attention, possible problem. |
| NOTICE | 4 | Issue that may require manager attention. |
| INFO | 3 | Normal notification of an event, not serious or particularly important. |
| DETAIL | 2 | Useful information, can be ignored during normal operation. |
| TRIVIAL | 1 | Generally unimportant everyday events. |
| DEBUG | 0 | Extremely detailed (possibly high-volume) debugging information. |

Module Identifiers and Names

This section describes the strings that AlliedWare uses to identify modules, including:

- the **module identification number (ID)** you can enter to identify the module in commands that require a module identifier
- the **module name** you can enter to identify the module in commands that require a module identifier
- the **log message display name** used to identify the module in log messages
- the **long display name** used to identify the module in detailed output screens, debugging messages, and console messages
- the **summary display name** used to identify the module in summary output screens
- a **description** of the module

Command parameters that require a module identifier as a value accept either the module identification number or the module name.

The following table lists module identification strings. When you enter the module name in a command, you can abbreviate it, and the shortest valid name for each module is shown by capital letters in the Module Name column. Some modules have more than one name (synonyms), in which case the Module Name column lists the synonyms as a comma-separated list.

| Module ID | Module Name | Log Message Display Name | Long Display Name | Summary Display Name | Description |
|-----------|--------------|--------------------------|-------------------|----------------------|--|
| - | ALL | - | - | - | All modules. |
| 0 | NOne | - | Unused | - | Reserved value for "no module". |
| 1 | NC, NODecode | NC | Nodecode | NC | — Reserved — |
| 2 | FRamerelay | FR | Frame relay | FR | Frame Relay DTE. |
| 3 | PPP | PPP | PPP | PPP | Point-to-Point Protocol. |
| 4 | APPLE | APPL | Appletalk | Aptl | AppleTalk routing. |
| 5 | IPg | IPG | IP | IP | Internet Protocol routing, including RIP, ICMP, UDP and SNMP. |
| 6 | IPX | IPX | IPX | IPX | Novell IPX routing. |
| 7 | SYN | SYN | SYN drivers | SYN | Synchronous interface drivers. |
| 8 | DNT, DECnet | DNT | DECnet | DNT | DECnet routing. |
| 9 | - | - | - | - | — Reserved — |
| 10 | - | - | - | - | — Reserved — |
| 11 | - | - | - | - | — Reserved — |
| 12 | - | - | - | - | — Reserved — |
| 13 | X25C | X25C | X.25 | X.25 | X.25 DCE (layer 3). Provides X.25 switching over a TCP/IP network. |
| 14 | Q931 | Q931 | Q.931 | Q931 | Q.931 ITU-T standard for ISDN call control. |
| 15 | - | - | - | - | — Reserved — |
| 16 | - | - | - | - | — Reserved — |

| Module ID | Module Name | Log Message Display Name | Long Display Name | Summary Display Name | Description |
|-----------|--------------|--------------------------|-------------------|----------------------|---|
| 17 | LAPB | LAPB | LAPB | LAPB | LAPB data link layer for X.25. |
| 18 | TEST | TEST | Test | Test | Built-in test facility for network interfaces and coprocessors on the device. |
| 19 | LAPD | LAPD | LAPD | LAPD | LAPD data link layer for ISDN D channel access. |
| 20 | STT | STT | STT | STT | Synchronous Tunnelling over TCP (STT), a method for connecting two synchronous ports on different devices over a TCP/IP internet. |
| 21 | STRm, STReam | STRM | Stream ports | Strm | Streams printing, a mechanism for sending print jobs to a particular TCP connection. |
| 22 | TCP | TCP | TCP | TCP | Transmission Control Protocol. |
| 23 | ETH | ETH | ETH | ETH | Ethernet device drivers and logical link layer. |
| 24 | PERm | PERM | Perm assignments | Perm | Permanent assignments, a method for connecting two asynchronous ports on different devices over a TCP/IP internet. |
| 25 | TServer | TSER | Terminal server | TSER | Terminal server. |
| 26 | LPD | LPD | | LPD | Line Printer Daemon remote printing facility. |
| 27 | BRG | BRG | | BRG | Transparent bridging including Spanning Tree. |
| 28 | COMp | COMP | | Comp | Compression control. |
| 29 | - | - | | - | — Reserved — |
| 30 | X25T | X25T | X.25 DTE | X25T | X.25 DTE (layer 3). Provides network communications over an X.25 network. |
| 31 | FLash | FLAS | Flash memory | Flsh | FLASH device drivers. |
| 32 | SWTh, SWItch | SWIT | Switching | Swtc | Switch software. |
| 33 | TLNt, TELnet | TLNT | Telnet | TELN | Telnet protocol for terminal connections over IP into and out of the device. |
| 34 | SYStem | SYS | System | SYS | General system functions. |
| 35 | CH | CH | Command Handler | CH | Command processor. |
| 36 | TTY | TTY | TTY | TTY | Terminal drivers used by Telnet and asynchronous ports. |
| 37 | ICC, ISDNCC | ICC | ISDN Call Control | ISDN | ISDN call control. |
| 38 | Mlox | MIOX | MIOX | MIOX | Multiprotocol Interconnect Over X.25. Enables network layer protocols to use X.25 in a standard way. |
| 39 | BOOTp | BOOT | BOOTP | BOOT | BOOTP boot protocol. Assists devices attempting to make BOOTP requests over a wide area network. |
| 40 | NTP | NTP | NTP | NTP | Network Time Protocol, for maintaining time information throughout an IP network. |

| Module ID | Module Name | Log Message Display Name | Long Display Name | Summary Display Name | Description |
|------------------|--------------------|---------------------------------|--------------------------|-----------------------------|---|
| 41 | BRI | BRI | BRI driver | BRI | ISDN Basic Rate Interface device drivers. |
| 42 | PRI | PRI | PRI driver | PRI | ISDN Primary Rate Interface device drivers. |
| 43 | ASyn | ASYN | Asyn | ASYN | Asynchronous port device independent layer. |
| 44 | ENCRypt | ENC | Encryption | ENCR | Encryption module, the code that runs on the device's CPU to control encryption. |
| 45 | USER | USER | User | USER | User login handler, including the User Authentication Database and TACACS support. |
| 46 | ACC | ACC | ASYN Call Control | ACC | Asynchronous call control for calls made into and out of the device's asynchronous ports. |
| 47 | ASYN | ASYN | ASYN | ASYN | Asynchronous device independent drivers. |
| 48 | LOAD | LOAD | LOADER | Load | Software release, patch and script loading. |
| 49 | INSTall | INST | INSTALL | INST | Handles installation of software at boot from ROM, FLASH and NVS. |
| 50 | OSPF | OSPF | OSPF | OSPF | Open Shortest Path First routing protocol, the Internet standard routing protocol used with IP. |
| 51 | RADius | RAD | RADIUS | RADI | RADIUS support. |
| 52 | GRE | GRE | GRE | GRE | Generic Routing Encapsulation, a method for encapsulating one protocol within another. |
| 53 | TRG, TRlgger | TRG | Triggers | TRG | Trigger facility for executing device commands in response to events. |
| 54 | SCR | SCR | Script | SCR | Scripting. |
| 55 | TDM | TDM | TDM | TDM | Time Division Multiplexing module for running serial links over a Primary Rate Interface. |
| 56 | File | FILE | File | File | File subsystem that uses both BBR and FLASH Used mainly for scripts. |
| 57 | LOG | LOG | Log | Log | Logging facility that handles all device logging messages. |
| 58 | PING | PING | Ping | Ping | Universal ping function. |
| 59 | SNmp | SNMP | SNMP | SNMP | SNMP agent. |
| 60 | SCC | SCC | SCC driver | SCC | SCC drivers. |
| 61 | - | - | - | - | — Reserved — |
| 62 | SA | SA | Sec Associations | SA | Security Associations. |
| 63 | SYNcc | SYNC | SYNC Call Control | SYCC | Synchronous Call Control. |
| 64 | NAT | NAT | NAT | NAT | Network Address Translation. |
| 65 | - | - | - | - | — Reserved — |
| 66 | IPV6 | IPV6 | IPv6 | IPv6 | Internet Protocol version 6. |

| Module ID | Module Name | Log Message Display Name | Long Display Name | Summary Display Name | Description |
|------------------|--------------------|---------------------------------|--------------------------|-----------------------------|---|
| 67 | L2TP | L2TP | L2TP | L2TP | Layer Two Tunnelling Protocol. |
| 68 | ATM | ATM | ATM | ATM | Asynchronous Transfer Mode. |
| 69 | HOSTMib | HOST | Hostrec | HRM | Host Resources MIB. |
| 70 | DHCP | DHCP | DHCP | DHCP | Dynamic Host Configuration Protocol. |
| 71 | INTerface | INT | INT | INT | Interfaces module. |
| 72 | - | - | - | - | — <i>Reserved</i> — |
| 73 | ENCo | ENCO | ENCO | ENCO | Encryption/compression services. |
| 74 | STAR | STAR | STAR | STAR | STAR key management. |
| 75 | SSH | SSH | SSH | SSH | Secure Shell client/server. |
| 76 | RSVP | RSVP | RSVP | PSVP | Resource Reservation Protocol. |
| 77 | FIREwall | FIRE | Firewall | Fire | Stateful inspection Firewall. |
| 78 | MAIL | MAIL | Mail | Mail | MAIL client. |
| 79 | TPAD | TPAD | TPAD | TPAD | Transaction Packet Assembler/Disassembler. |
| 80 | - | - | - | - | — <i>Reserved</i> — |
| 81 | IPSec | IPSE | IPSEC | IPSC | IP security. |
| 82 | ISAkmp | ISAK | ISAKMP | IKMP | ISAKMP key management. |
| 83 | FINGer | FING | Finger | FING | FINGER client. |
| 84 | HTTP | HTTP | HTTP | HTTP | HTTP client and server. |
| 85 | RCapi | RCAP | DCP | DCP | Device Control Protocol (DCP) |
| 86 | RMon | RMON | RMON | RMON | Remote Monitoring agent. |
| 87 | SWItch | SWIT | L3 switch | SWI | Layer 3 switch module. |
| 88 | VRRP | VRRP | VRRP | VRRP | Virtual Router Redundancy Protocol. |
| 89 | VLAN | VLAN | VLAN | VLAN | VLANs. |
| 90 | PCI | PCI | PCI | PCI | PCI drivers. |
| 91 | GARP | GARP | GARP | GARP | General Attributes Registration Protocol. |
| 92 | STP | STP | STP | STP | Spanning Tree Protocol. |
| 93 | GUI | GUI | GUI | GUI | Web browser based graphical user interface. |
| 94 | CLNS | CLNS | OSI | OSI | Open Systems Interconnection. |
| 95 | PKI | PKI | PKI | PKI | Public Key Infrastructure. |
| 96 | LDAP | LDAP | LDAP | LDAP | Lightweight Directory Access Protocol. |
| 97 | PIM | PIM | PIM | PIM | Protocol Independent Multicast. |
| 98 | DVMrp | DVMR | DVMRP | DVMRP | Distance Vector Multicast Routing Protocol. |
| 99 | QOS | QOS | QOS | QOS | Quality of Service. |
| 100 | CLASSifier | CLAS | CLASSIFR | CLASSIFR | Generic packet classifier. |
| 101 | SYSR | SYSR | SYSR | SYSR | System Redundancy. |
| 102 | SWK | SWK | SWK | SWK | Layer 2 switching. |
| 103 | BGP | BGP | BGP | BGP | Border Gateway Protocol version 4. |

| Module ID | Module Name | Log Message Display Name | Long Display Name | Summary Display Name | Description |
|-----------|---------------------|--------------------------|-------------------|----------------------|---|
| 104 | LB, LOADBalancer | LOAD | LB | LB | Load Balancer. |
| 105 | PIM6 | PIM6 | PIM6 | PIM6 | Protocol Independent Multicast 6. |
| 106 | CFlash | CFLA | Compact Flash | Cfl | CompactFlash. |
| 107 | ALArm | ALAR | ALARM | Alrm | Environmental monitoring. |
| 108 | SSL | SSL | SSL | SSL | Secure Socket Layer. |
| 109 | DS3 | DS3 | DS3 | DS3 | DS3 interface device drivers. |
| 110 | VOIP | VOIP | VoIP | VoIP | Voice over IP (for VoIP PIC). |
| 111 | TACPlus | TACP | TACP | TACP | TACACS+. |
| 112 | SKEY | SKEY | SKEY | SKEY | S/Key |
| 113 | UPNP | UPNP | UPNP | UPNP | Universal Plug and Play. |
| 114 | SW56 | SW56 | SW56 | SW56 | ASIC switch fabric driver. |
| 115 | SWCx | SWCX | SWCX | SWCX | ASIC switch fabric driver. |
| 116 | SWMx | SWMX | SWMX | SWMX | ASIC switch fabric driver. |
| 117 | DHCP6 | DHCP | DHCP6 | DHCP6 | DHCP for IPv6. |
| 118 | PORTAuth | PORT | PORTAUTH | PA | 802.1x port authentication. |
| 119 | M8272 | M827 | M8272 | M8272 | MPC 8272 device driver. |
| 120 | STAck | STAC | Stack | STACK | Stacking. |
| 121 | ADSL | ADSL | ADSL | ADSL | Asymmetric Digital Subscriber Line. |
| 122 | LACP | LACP | LACP | LACP | Link Aggregation Control Protocol. |
| 123 | SQOS | SQOS | Software QoS | SQOS | Software Quality of Service. |
| 124 | MSTp | MSTP | MSTP | MSTP | Multiple Spanning Tree Protocol. |
| 125 | - | - | - | - | — Reserved — |
| 126 | - | - | - | - | — Reserved — |
| 127 | SWNP | SWNP | SWNP | SWNP | IPv6 Accelerator driver. |
| 128 | - | - | - | - | — Reserved — |
| 129 | POE | POE | POE | POE | Power over Ethernet. |
| 130 | WANLB | WANL | WANLB | WANLB | WAN Load Balancing. |
| 131 | - | - | - | - | — Reserved — |
| 132 | LLDP | LLDP | LLDP | LLDP | Link Layer Discovery Protocol. |
| 133 | - | - | - | - | — Reserved — |
| 134 | - | - | - | - | — Reserved — |
| 135 | SHDsl | SHDS | SHDSL | SHDSL | Symmetrical High-speed Digital Subscriber Line. |
| 136 | EPSR | EPSR | EPSR | EPSR | Ethernet Protection Switching Ring |
| 137 | DHCP Snooping | DHCP | DHCP Snooping | DHCPSN | DHCP Snooping. |
| 140 | - | - | - | - | — Reserved — |
| 141 | MACFF | MACF | MACFF | MACFF | Mac-Forced Forwarding. |
| 142 | DDNS | DDNS | DDNS | DDNS | Dynamic DNS |

Log Message Types and Subtypes

The following table lists the log message types and subtypes defined by the Logging Facility. Commands in the Logging Facility recognise either the numeric identifier (ID) or the textual name. You can abbreviate names for the log type and subtype when you enter them in commands. The shortest valid abbreviation is shown by capital letters in the Type ID/Name and Subtype ID/Name columns. See *Chapter 78, Logging Facility* for more detailed information about these identifiers.

| Type ID / Name | Subtype ID / Name | Meaning |
|------------------|--|---|
| 000 / NULL | | No type or subtype information. |
| | 000 / NULL | Used for messages issued through the old logging system which does not support log message types. Displayed as a blank in output. |
| 001 / REST | | Router reboot. |
| | 001 / NORM | Ordinary restart (default case). |
| | 002 / WARN | Restart with warnings. |
| | 003 / CRASH | Router restarted after a crash. |
| | 004 / FAIL | Restart or self-test failure. |
| 002 / PINT | | State change or error condition on a physical-layer interface (e.g. bri0, syn1, port3, eth0). |
| | 001 / UP | Physical interface is now available. |
| | 002 / DOWN | Physical interface is no longer available. |
| | 003 / WARN | Possible problem with physical interface. |
| | 004 / ERROR | Problem detected with physical interface. |
| | 005 / RESET | Physical interface has been reset. |
| | 006 / NTON | CARD=x LINE=y. NT has power. |
| | 007 / NTOFF | CARD=x LINE=y. NT power failure. |
| | 008 / CREATE | Physical interface has been hot-inserted. |
| 009 / DESTROY | Physical interface has been hot-removed. | |
| 003 / CALL | | State change or error condition on an ISDN or ACC call. |
| | 001 / UP | Call has been established. |
| | 002 / DOWN | Call has been cleared. |
| | 003 / WARN | Possible problem with call. |
| | 004 / ERROR | Problem detected with call. |
| | 005 / RESET | Call has been reset. |
| 004 / DLINK | | State change or error condition on a data-link layer entity (e.g. LAPB, LAPD). |
| | 001 / UP | Data-link layer entity is available. |
| | 002 / DOWN | Data-link layer entity is not available. |
| | 003 / WARN | Possible problem with data-link layer entity. |
| | 004 / ERROR | Problem detected with data-link layer entity. |
| | 005 / RESET | Data-link layer entity has been reset. |
| | 006 / PNORM | CARD=x LINE=y PER normal. |
| | 007 / PHIGH | CARD=x LINE=y PER limit exceeded. |
| | 008 / ACTIVATE | Data link activated. |
| 009 / DEACTIVATE | Data link deactivated. | |

| Type ID / Name | Subtype ID / Name | Meaning |
|----------------|---------------------|--|
| 005 / VINT | | State change or error condition on a virtual interface (e.g. ppp0, fr2, slip4). |
| | 001 / UP | Virtual interface is operational. |
| | 002 / DOWN | Virtual interface is not operational. |
| | 003 / WARN | Possible problem with virtual interface. |
| | 004 / ERRor | Problem detected with virtual interface. |
| | 005 / RESET | Virtual interface has been reset. |
| | 006 / ACTivate | On-demand interface has been activated. |
| | 007 / CREate | Virtual interface has been created. |
| | 008 / DESTroy | Virtual interface has been destroyed. |
| 006 / CIRC | | State change or error condition on a circuit (e.g. FR DLCI, X.25 circuit, PPP control protocol). |
| | 001 / UP | Circuit is operational. |
| | 002 / DOWN | Circuit is not operational. |
| | 003 / WARN | Possible problem with circuit. |
| | 004 / ERRor | Problem detected with circuit. |
| | 005 / RESET | Circuit has been reset. |
| | 006 / CONF | Automatic configuration/option negotiation. |
| 007 / ATT | | State change or error condition on an attachment (module interface). |
| | 001 / ATTch, ATTach | Module has attached. |
| | 002 / DETch, DETAch | Module has detached. |
| | 003 / FAIL | Module attachment failed. |

| Type ID / Name | Subtype ID / Name | Meaning |
|----------------|-------------------|--|
| 008 / EXCEP | | Unexpected exception detected. |
| | 000 / RESet | Router reset. |
| | 001 / EXTNO | External contact open. |
| | 002 / EXTNC | External contact closed. |
| | 003 / TNORM | Temperature normal. |
| | 004 / THIGH | Temperature threshold exceeded. |
| | 005 / TREND | Temperature trend exceeded. |
| | 008 / BUS | Bus error. |
| | 012 / ADDR | Address error. |
| | 016 / INStr | Illegal instruction. |
| | 032 / PRIV | Privilege violation. |
| | 040 / LINEA | Line A emulator. |
| | 044 / LINEF | Line F emulator. |
| | 096 / SPUR | Spurious interrupt. |
| | 128 / TRAP0 | Trap #0 (fatal). |
| | 132 / TRAP1 | Trap #1 (restart). |
| | 136 / TRAP2 | Trap #2 (assert). |
| | 140 / INP1O | Contact input 1 opened. |
| | 141 / INP1C | Contact input 1 closed. |
| | 142 / INP2O | Contact input 2 opened. |
| | 143 / INP2C | Contact input 2 closed. |
| | 144 / RLY1O | Relay output 1 opened. |
| | 145 / RLY1C | Relay output 1 closed. |
| | 146 / RLY2O | Relay output 2 opened. |
| | 147 / RLY2C | Relay output 2 closed. |
| 009 / BUFF | | Significant change in the number of free buffers. |
| | 001 / LEV1 | Number of free buffers dropped below buffer level 1. |
| | 002 / LEV2 | Number of free buffers dropped below buffer level 2. |
| | 003 / LEV3 | Number of free buffers dropped below buffer level 3. |
| 010 / LIC | | Licensing information. |
| | 001 / REL | Release licensing information. |
| | 002 / COMP | Software compression licensing information. |
| 011 / AUTH | | Authentication requests or security issues. |
| | 001 / OK | Successful authentication (login, connect, etc.). |
| | 002 / FAIL | Unsuccessful authentication. |
| | 003 / RFAIL | Repeated unsuccessful authentication. |
| 012 / BATCh | | Trigger Facility/Scripting activity. |
| | 001 / ACT | Trigger/Script activation. |
| | 002 / CMD | Trigger/Script command. |
| | 003 / OUT | Trigger/Script output. |
| 014 / LPD | | LPD status information. |

| Type ID / Name | Subtype ID / Name | Meaning |
|----------------|--------------------------------|---|
| 015 / SYSLog | | Messages received via syslog. |
| | 000 / KERn | Kernel messages. |
| | 008 / USEr | Various user-level messages. |
| | 016 / MAIL | Mail subsystem. |
| | 024 / DAEMon | System daemons. |
| | 032 / AUTH | Security/authorisation messages. |
| | 040 / SYSLog | Messages generated internally by syslogd. |
| | 048 / LPR | Line printer subsystem. |
| | 056 / NEWS | Network news subsystem. |
| | 064 / UUCP | UUCP subsystem. |
| | 072 / CRON | Clock daemon. |
| | 128 / LOCAL0 | <i>Reserved for local use.</i> |
| | 136 / LOCAL1 | <i>Reserved for local use.</i> |
| | 144 / LOCAL2 | <i>Reserved for local use.</i> |
| | 152 / LOCAL3 | <i>Reserved for local use.</i> |
| | 160 / LOCAL4 | <i>Reserved for local use.</i> |
| 168 / LOCAL5 | <i>Reserved for local use.</i> | |
| 176 / LOCAL6 | <i>Reserved for local use.</i> | |
| 184 / LOCAL7 | <i>Reserved for local use.</i> | |
| 016 / ACC | | Asynchronous call control activity. |
| | 001 / SCR | Script not found. |
| | 002 / CALL | ACC call not found. |
| | 003 / PORT | Port does not exist. |
| | 004 / ACT | ACC call activated. |
| | 005 / DEAct | ACC call deactivated. |
| | 006 / DIAL | Dial-in connection established. |
| 017 / NVS | | Problems with NVS memory. |
| | 001 / RFail | Failed to open/read NVS block. |
| | 002 / WFail | Failed to write to NVS block. |
| | 003 / CFail | Failed to create NVS block. |
| 018 / FLASH | | Problems with FLASH memory. |
| 019 / USER | | User activity. |
| | 001 / LON | User logon. |
| | 002 / LOFF | User logoff. |
| | 003 / ADD | User account added. |
| | 004 / DEL | User account deleted. |
| | 005 / PWChg | User password changed. |
| | 006 / PWErr | Error setting manager password. |
| | 007 / PWSet | Manager password successfully set. |
| | 008 / LOOp | Loopback problem at login prompt. |
| | 009 / TACQ | TACACS request. |
| | 010 / TACR | TACACS response. |
| | 011 | User logon failure. |

| Type ID / Name | Subtype ID / Name | Meaning |
|----------------|-------------------|---|
| 020 / CMD | | Command processing. |
| | 001 / MGR | Manager command. |
| | 002 / USER | User command. |
| 021 / MSG | | Router messages. |
| | 001 / INFo | Informative (Info) message. |
| | 002 / WARn | Warning message. |
| 022 / CONfig | | Router or network configuration information/warnings. |
| | 001 / TOPo | Network topology issue. |
| | 002 / NTNUM | Conflicting network numbering (e.g. IPX, AppleTalk). |
| | 003 / NTNAM | Conflicting network name (e.g. AppleTalk). |
| | 004 / SWINSert | Board has been hot-inserted. |
| | 005 / SWIN | Board has been hot-swapped in. |
| | 006 / SWOUT | Board has been hot-swapped out. |
| | 007 / SWDElete | Board has been hot-replaced by a different type. |
| 023 / IPFilt | | IP filter matches. |
| | 001 / PASS | IP packet passes filter. |
| | 002 / FAIL | IP packet fails filter. |
| | 003 / DUmp | IP packet dump. |
| | 004 / FRag | IP packet discarded by fragment filtering. |
| | 005 / SA | IP packet discarded by security association. |
| | 006 / SRCrt | IP source route packet discarded. |
| | 007 / RECrt | IP record route packet forwarded. |
| 024 / INTerr | | Unexpected internal error. |
| | 001 / BDPkt | Bad packet detected within system code. |
| | 002 / IVPar | Invalid parameters detected. |
| 025 / IPNat | | IP Network Address Translation. |
| | 001 / FAIL | Packet discarded by NAT. |
| | 002 / INTcp | Inbound TCP connection initiated. |
| | 003 / INUdp | Inbound UDP flow initiated. |
| | 004 / OTTcp | Outbound TCP connection initiated. |
| 026 / LIMit | | Internal limit exceeded. |
| | 001 / IPXSv | IPX service table full. |
| | 002 / IPXRt | IPX route table full. |
| 027 | 003 / SWCmp | All available software compression channels in use. |
| | | Dynamic Host Configuration Protocol. |
| | 001 | IP address allocated to device. |
| | 002 | Device relinquished IP address. |
| | 003 | Refused to allocate IP address to device. |

| Type ID / Name | Subtype ID / Name | Meaning |
|----------------|-------------------|--|
| 029 / RSO | | Remote Security Officer. |
| | 001 / ADD | IP address range has been added. |
| | 002 / DEL | Address range has been deleted. |
| | 003 / ENBld | Option has been enabled. |
| | 004 / DSBld | Option has been disabled. |
| | 005 / ACPt | Access has been attempted and accepted. |
| | 006 / RJCt | Access has been attempted and rejected. |
| 031 / ENCO | | Encryption/Compression. |
| | 001 / 9711 | Hifin 9711 chip subsystem. |
| | 002 / STAc | STAC SW subsystem. |
| | 003 / CRYp | Cryptech chip subsystem. |
| | 004 / PAC | PAC card subsystem. |
| | 005 / MAC | MAC card subsystem. |
| 032 / RSVP | | Resource Reservation Protocol. |
| | 001 | Path has been removed. |
| | 002 | Path has been added. |
| | 003 | Session has been removed. |
| | 004 | Session has been added. |
| | 005 | Reservation has been added. |
| | 006 | Reservation has been removed. |
| | 007 | Reservation denied due to lack of resources. |
| 033 / SSH | | Secure Shell. |
| | 001 / ADD | A Secure Shell user has been added. |
| | 002 / DEL | A Secure Shell user has been deleted. |
| | 003 / SET | A Secure Shell user configuration has been modified. |
| | 004 / ENBld | A Secure Shell server has been enabled. |
| | 005 / DSBld | A Secure Shell server has been disabled. |
| | 006 / ACPt | Connection accepted. |
| | 007 / RJCt | Connection rejected. |
| | 008 / DISc | Connection disconnected. |
| 034 / TPAD | | TPAD transaction processing. |
| | 001 / CONN | A terminal session connected to TPAD. |
| | 002 / DISC | A terminal session has disconnected from TPAD. |
| | 003 / CALL | TPAD attempted to make an X.25 call. |
| | 004 / CLR | X.25 call cleared by TPAD or network. |
| | 005 / FAIL | Attempt to make an X.25 call has failed. |
| | 006 / ACT | Call connected and ready to perform transactions. |
| | 007 / DOWN | Call completed and cleared. |
| 035 / MAIL | | MAIL. |
| | 001 / SUB | Mail message submitted to SMTP server. |
| | 002 / START | Mail connection to SMTP server established. |
| | 003 / END | Mail connection closed. |
| | 004 / ERROR | Bad response from SMTP server. |

| Type ID / Name | Subtype ID / Name | Meaning |
|-----------------|----------------------------------|--|
| 036 / FIRE | | Firewall Gateway. |
| | 001 / INATcp | Inbound TCP connection initiated. |
| | 002 / INAUdp | Inbound UDP connection initiated. |
| | 003 / INAIcmp | Inbound ICMP connection initiated. |
| | 004 / INAOther | Inbound Other IP connection initiated. |
| | 005 / OUTATcp | Outbound TCP connection initiated. |
| | 006 / OUTAUdp | Outbound UDP connection initiated. |
| | 007 / OUTAIcmp | Outbound ICMP connection initiated. |
| | 008 / OUTAOther | Outbound Other IP connection initiated. |
| | 009 / INDTCp | Denied inbound TCP connection. |
| | 010 / INDUdp | Denied inbound UDP connection. |
| | 011 / INDIcmp | Denied inbound ICMP connection. |
| | 012 / INDOther | Denied inbound Other IP connection. |
| | 013 / OUTDTcp | Denied outbound TCP connection. |
| | 014 / OUTDUdp | Denied outbound UDP connection. |
| | 015 / OUTDIcmp | Denied outbound ICMP connection. |
| | 016 / OUTDOther | Denied outbound Other IP connection. |
| | 017 / ATTK | Firewall under attack. |
| | 018 / ENBIId | Firewall has been enabled. |
| | 019 / DISBIId | Firewall has been disabled. |
| | 020 / DESTRoy | A firewall policy has been destroyed. |
| | 021 / CONFChng | The firewall configuration has been changed (AR450 only). |
| | 022 / SYNQChng | Status of a firewall's SYN queue changed. |
| | 023 / HTTP | Denied HTTP connection. |
| | 024 / NOSEssion | No TCP session remains active. |
| | 025 / NEWSession | First TCP session created. |
| | 026 / SIPAlg | ALG Error detected. |
| 027 / LIMITrule | Denied connection by limit rule. | |
| 037 / ACCO | | Accounting messages. |
| | 001 / START | A flow has started. |
| | 002 / UPDAT | Traffic statistics for a flow. |
| | 003 / END | A flow has ended. |
| 038 / LIC | | Feature Licence log messages. |
| | 001 / EXP | Special feature password has expired trial period. |
| | 002 / MIS | Feature licence mismatch between SYSR master and slave controller cards. |
| 042 / IPSC | | IP security (IPsec). |
| | 001 / MSG | General log messages. |
| | 002 / INERR | IPsec inbound process. |
| | 003 / OUERR | IPsec outbound process. |
| 043 / IKMP | | ISAKMP key management |
| | 001 / XCHG | ISAKMP exchange messages. |
| | 002 / SA | Security Association messages. |
| | 003 / ERROR | Error messages. |
| | 004 / MSG | General log messages. |

| Type ID / Name | Subtype ID / Name | Meaning |
|----------------|-------------------|--|
| 044 / BOOTp | | BOOTP auto-discovery feature. |
| | 001 / ETHConf | Configuration of the Ethernet interface. |
| 045 / HTTP | | HTTP server. |
| | 001 / GETOK | Successful GET request. |
| | 002 / GETFAIL | Failed GET request. |
| | 003 / ERRor | An exception event. |
| 046 / VRRP | | Virtual Router Redundancy Protocol (VRRP). |
| | 001 / WITHd | Router retiring as VR master. |
| | 002 / NEWm | A new master has been selected. |
| | 003 / BADad | Bad advertisement packet received. |
| | 004 / NOIP | No IP interface found for VR. |
| | 005 / MASTr | Router is now master of the VR. |
| | 006 / PRIoch | Router priority has changed. |
| | 007 / PREempt | Preemption delay start or abort. |
| 047 / PPPOE | | PPP over Ethernet. |
| | 001 / SNA | Requested service not available. |
| | 002 / NAS | Requested service does not exist. |
| 048 | | File logging. |
| | 001 | Error adding or deleting directory entry. |
| | 002 | File created. |
| | 003 | File deleted. |
| | 004 | File renamed. |
| 049 | | Internet Protocol version 6 Filters. |
| | 001 | IPv6 packet passes filter. |
| | 002 | IPv6 packet fails filter. |
| | 003 | IPv6 packet dump. |
| 050 / PKI | | Public Key Infrastructure. |
| | 001 / CERT | PKI certificate messages. |
| | 002 / CRL | PKI certificate revocation list messages. |
| | 003 / OP | PKI operational protocol messages. |
| | 004 / MP | PKI management protocol messages. |

| Type ID / Name | Subtype ID / Name | Meaning |
|----------------|----------------------|---|
| 051 / SYSInfo | | System status information and alarms. |
| | 001 / PS | Power supply status change. |
| | 002 / FAN | Fan status change. |
| | 003 / TEMP | Temperature status change. |
| | 004 / ALArm | Status changes. |
| | 005 | Power supply unit fan failed. |
| | 006 | Power supply unit fan now good. |
| | 007 | Power supply unit temperature too high. |
| | 008 | Power supply unit temperature now good. |
| | 009 | Power supply unit power bad. |
| | 010 | Power supply unit power good. |
| | 011 | Fan only module failure. |
| | 012 | Fan only module now good. |
| | 013 | PSU/FOM combination is incompatible |
| | 014 | PSU/FOM combination is compatible |
| | 015 | Hot swap error on PSU/FOM |
| 052 / IPDNS | | DNS Cache. |
| | 001 / CACHE | DNS Cache. |
| | 002 / UNRES | DNS lookup failed. |
| 053 / ATKFilt | | AppleTalk Filtering. |
| | 001 / PAss | AppleTalk packet passes filter. |
| | 002 / FAil | AppleTalk packet fails filter. |
| 054 / LBAL | | Load balancing. |
| | 001 / PINGfail | Resource health check ping failed. |
| | 002 / CRITicalrst | Resource exceeded critical RST percentage. |
| | 003 / HTTPError | Http server error status code received from resource. |
| | 004 / PEERPresent | Fail over peer present. |
| | 005 / PEERNotpresent | Fail over peer not present. |
| | 006 / HTTPPacket | Http request not all contained in the first packet received. |
| | 007 / LASTfail | No resource in a resource pool able to accept connection. |
| | 008 / RESState | Resource state change. |
| | 009 / VIRTState | Virtual Balancer state change. |
| 055 / BGP | | Border Gateway Protocol version 4 (BGP-4). |
| | 001 / STAtE | Peer state changes. |
| | 002 / MEMory | Memory low. |
| | 003 / NOTSent | Notification sent. |
| | 004 / NOTRecv | Notification received. |
| | 005 / MAXDrop | Max prefix received, drop rest. |
| | 006 / MAXTerm | Max prefix received, terminating peer connection. |
| | 007 / BACKoff | Backoff failed to register or set, or limits have been reached. |

| Type ID / Name | Subtype ID / Name | Meaning |
|----------------|--|---|
| 056 / SSL | | Secure Socket Layer. |
| | 001 / HSFail | Handshake fail. |
| | 002 / SDBFull | Session cache full. |
| | 003 / NOENco | No enco resource. |
| | 004 / NOLic | No feature licence. |
| | 005 / NOCErt | No certificate loaded. |
| 057 / GUI | | Graphical User Interface. |
| | 001 / RESrc_changed | Resource file changed. |
| 058 / CFLAsh | | Compact Flash. |
| | 001 / REAdfail | Read from hardware failure. |
| | 002 / WRltefail | Write to hardware failure. |
| | 003 / INCard | Card inserted. |
| | 004 / OUTcard | inserted card removed. |
| | 005 / DIRfail | Directory operation failure. |
| 059 / VOIP | | Voice Over IP. |
| | 001 / TFTP | TFTP loading information. |
| | 002 / APPLication | Application code running. |
| | 003 / CALL | Call status. |
| | 004 / HOOK | Hook states. |
| | 005 / REGISTRATION | VoIP PIC registration status. |
| | 006 / ERRor | Error in PIC. |
| 060 / TACP | | TACACS+. |
| | 001 | User login authentication succeeded. |
| | 002 | User login authentication failed. |
| 061 / ARP | | ARP logging. |
| | 001 / UPDate | ARP cache change. |
| | 002 / ROUtefail | OSPF routes with unreachable nexthop deleted from ARP waiting list. |
| 062 / DHCP6 | | Dynamic Host Configuration Protocol version 6. |
| | 001 / MAIN | DHCP enabled or disabled. |
| | 002 / AUTH | Sender has failed authentication. |
| | 003 / ADDR | DHCP6 address messages. |
| 063 / UPNP | | Universal Plug and Play. |
| | 001 / STATUS | UPNP status changes. |
| | 002 | An action of a service instance has been invoked. |
| | 003 | A port-map has been added. |
| | 004 | A port-map has been deleted. |
| | 005 | A port-map has been enabled. |
| | 006 | A port-map has been disabled. |
| | 007 | The logical interface that the device is advertising on. |
| | 008 | A subscriber has registered to a service. |
| | 009 | No memory available for accepting subscriptions. |
| 010 | A subscriber has sent an incorrect delivery URL. | |

| Type ID / Name | Subtype ID / Name | Meaning |
|----------------|-------------------|--|
| 064 / PORTAuth | | Port Authentication. |
| | 001 / SUPP | Messages from supplicant on this device. |
| | 002 / AUTH | Messages from authenticator on this device. |
| | 003 / PAE | General authentication messages. |
| 064 / PORTAuth | 004 / MACB | MAC-based authentication messages. |
| | 065 / PING | PING polling. |
| | 001 / POLL | Ping polling status change. |
| | 066 / SWI | Switch. |
| 066 / SWI | 001 / ACCEL | Network processor accelerator card logging. |
| | 002 / BOOT | Boot options logging. |
| | 003 / LOCKUp | Lockup detected. |
| | 004 / LOOP | Loop detected. |
| | 005 / DISP | Port disabled by loop detection action. |
| | 006 / SILICon | Silicon soft reset. |
| | 007 / THRash | Port disabled/re-enabled by limiting rapid MAC address movement. |
| | 008 / QOSsp | Port disabled/re-enabled by QOS storm protection. |
| 067 | | Network processor accelerator card. |
| | 001 / INIT | Network processor accelerator card initialisation. |
| 068 / OSPF | | Open Shortest Path First Protocol. |
| 069 / STACK | | Stacking. |
| | 001 / SYSER | Stacking system error. |
| | 002 / INFO | General event information. |
| 070 / LACP | | Link Access Control Protocol. |
| | 001 / STATUS | LACP enabled or disabled. |
| | 002 / CHURN | State cannot be agreed on. |
| 071 / PIM | | Protocol Independent Multicast 4. |
| | 001 / STATus | General message. |
| | 002 / ERRor | Error message. |
| 072 / NEST | | Nested VLANs. |
| | 001 / DEST | Nested VLANs have been destroyed. |
| 073 / ADSL | | ADSL (Asymmetric Digital Subscriber Line). |
| | 001 / FAULT | Major fault. |
| | 002 / WHIP | WHIP (Windows Host Interface Program) diagnostic messages. |
| | 003 / LINE | Normal line-related events (connect/disconnect). |
| 074 / MSTP | | Multiple Spanning Tree Protocol. |
| | 001 / INFO | General message. |
| 075 / SQOS | | Software QoS. |
| | 001 / PAUS | Traffic class has been paused. |
| | 002 / UNPAUS | Traffic class has been unpaused. |
| | 003 / QEXCE | Queue limit has been exceeded. |
| | 004 / DCEXCe | DAR classifier limit has been exceeded. |
| 076 / ATM | | Asymmetric Transfer Mode. |
| | 001 / INTerface | Interface type log message. |
| | 002 / CAC | CAC type log message. |

| Type ID / Name | Subtype ID / Name | Meaning |
|---------------------|-------------------------|---|
| 077 / WANLB | | WAN Load Balancing. |
| | 001 / RESState | Resource state change. |
| | 002 / NORes | No active resources. |
| | 003 / HEALTHcheck | Host unreachable |
| | 004 / DNSFailure | DNS lookup failed |
| 078 / LLDP | | Link Layer Discovery Protocol. |
| | 001 / CDPAdd | A CDP neighbour has been added. |
| | 002 / CDPRemove | A CDP neighbour has been removed. |
| | 003 / ERRor | System error. |
| | 004 / REMotetablechange | Entry created, modified or deleted in LLDP remote systems MIB. |
| | 005 / TOOmanyneighbours | Insufficient space in LLDP remote systems MIB to store information from a new neighbour |
| 079 / SHDsl | | Symmetrical High-speed Digital Subscriber Line. |
| | 001 / FAULT | Major fault. |
| | 002 / WHIP | WHIP (Windows Host Interface Program) diagnostic messages. |
| | 003 / LINE | Normal line-related events (connect/disconnect). |
| | 004 / ALARM | Threshold exceeded events. |
| 080 / DEBug | | Global debugging control. |
| | 001 / ALL | Debugging has been disabled for all modules. |
| | 002 / MODule | Debugging has been disabled for a module. |
| 081 / TTy | | Terminal drivers used by Telnet and asynchronous ports. |
| | 001 / IDle | An idle timeout period has been set for Telnet sessions. |
| 082 / ASYn | | Asynchronous ports. |
| | 001 / IDle | An idle timeout period has been set on an asynchronous port. |
| 083 / DHCP Snooping | | DHCP Snooping. |
| | 001 / ADD | A new entry has been added to the Binding database. |
| | 002 / DELeTe | An entry has been deleted from the Binding database. |
| | 003 / UPdate | An existing entry in the Binding database has been updated. |
| | 004 / FAIL | An entry has failed to be added to the Binding database, as it is full. |
| | 005 / ARP discard | An ARP packet has been discarded by ARP Security. |
| 084 / TCP | | Transmission Control Protocol. |
| | 001 / RESource | TCP resource allocation. |
| 085 / EPSR | | Ethernet Protection Switching Ring. |
| | 001 / RING | An EPSR Ring has changed state. |
| | 002 / LINK | An EPSR Port has changed state. |
| | 003 / REMote | An EPSR Port on a remote device has changed state. |
| 086 | | Internet Group Management Protocol |
| 087 / SCP | | Secure Copy Protocol. |
| | 001 / ENBId | SCP service is enabled. |
| | 002 / DSBId | SCP service is disabled. |
| | 003 / CLIfI | SCP client failed to start. |
| | 004 / SERfI | SCP server failed to start. |
| | 005 / DNLfI | File download to the device failed. |
| | 006 / UPLfI | File upload from the device failed. |
| 088 | | Other address spaces |

| Type ID / Name | Subtype ID / Name | Meaning |
|----------------|--------------------|--|
| 088 | | <i>Reserved</i> |
| 089 / SNmp | | Simple Network Management Protocol (SNMP). |
| | 001 / MEMory | Low memory. |
| 091 / MACFF | | Mac-Forced Forwarding. |
| | 001 / NEWServer | New entry added in the MAC-Forced Forwarding server database. |
| | 002 / LOSTserver | Entry deleted from the MAC-Forced Forwarding server database. |
| | 003 / CLIEntnortrs | Client has no configured routers in the database. |
| | 004 / RTRArpfailed | MAC addresses of routers cannot be resolved. |
| | 005 / LOSTContact | Background poll of servers cannot contact routers in database. |
| | 006 / OVERflow | Logs have reached the log generation threshold value. |
| | 007 / MISMatch | Mismatch between static MAC and existing dynamic MAC entry. |
| 092 / MSG | | Dynamic DNS. |
| | 001 / INFO | Dynamic DNS host updated. |
| | 002 / WARN | Dynamic DNS host update failed. |

Module: PPP

Point-To-Point Protocol

This chapter contains messages that have the module code PPP, sorted into the following Types:

- "DLINK: Data-Link Layer" on page 31
- "VINT: Virtual Interfaces" on page 36
- "CIRC: Circuits" on page 41
- "ATT: Module Attachment" on page 43
- "AUTH: Authentication" on page 45
- "INTERR: Internal Errors" on page 47
- "LIMIT: System Limits" on page 54
- "PPPOE: PPP over Ethernet" on page 55

For more information about PPP, see the *Point-to-Point Protocol (PPP)* chapter in the *Software Reference*.

Type: DLINK Data-Link Layer

ppp: an echo failure has occurred on link

Message ppp<ppp-interface>: An Echo failure has occurred on <type> link over <phys-interface>

| Severity | Module | Type | Subtype |
|-------------|--------|-----------|-----------|
| 5/IMPORTANT | 03/PPP | 004/DLINK | 004/ERROR |

Explanation Three PPP LCP Echo Requests have not been replied to, so the PPP link is being reset.

Possible *type* values are:

- primary
- secondary
- bandwidth-on-demand

Recommended Action Investigate why the peer is not replying to Echo Requests.

ppp: demand link activated due to BAP request

Message ppp<ppp-interface>: Demand link <phys-interface> activated due to BAP request

| Severity | Module | Type | Subtype |
|----------|--------|-----------|--------------|
| 3/INFO | 3/PPP | 004/DLINK | 008/ACTIVATE |

Explanation A demand link over the lower layer interface has been activated due to a Bandwidth Allocation Protocol (BAP) request from the peer.

Recommended Action No action is required.

ppp: demand link deactivated due to BAP request

Message ppp<ppp-interface>: Demand link <phys-interface> deactivated due to BAP request

| Severity | Module | Type | Subtype |
|----------|--------|-----------|----------------|
| 3/INFO | 3/PPP | 004/DLINK | 009/DEACTIVATE |

Explanation A demand link has been deactivated due to a Bandwidth Allocation Protocol (BAP) request from the peer.

Recommended Action No action is required.

ppp: link has opened

Message ppp<ppp-interface>: <type> link over <phys-interface> has opened

| Severity | Module | Type | Subtype |
|----------|--------|-----------|---------|
| 2/DETAIL | 3/PPP | 004/DLINK | 001/UP |

Explanation A particular link of a PPP interface has opened.

Possible *type* values are:

- Primary
- Secondary
- Bandwidth-on-demand

Recommended Action No action is required.

ppp: link has closed

Message ppp<ppp-interface>: <type> link over <phys-interface> has closed

| Severity | Module | Type | Subtype |
|----------|--------|-----------|----------|
| 4/NOTICE | 3/PPP | 004/DLINK | 002/DOWN |

Explanation A particular link of a PPP interface has closed.

Possible *type* values are:

- Primary
- Secondary
- Bandwidth-on-demand

Recommended Action No action is required.

ppp: link over interface closed due to charge limit exceeded

Message ppp<ppp-interface>: <type> link over <phys-interface> has closed due to <charge-limit> being exceeded

| Severity | Module | Type | Subtype |
|----------|--------|-----------|----------|
| 4/NOTICE | 3/PPP | 004/DLINK | 002/DOWN |

Explanation The link's charge limit has been exceeded, so the link has been taken down to avoid further charges.

Possible *type* values are:

- Primary
- Secondary
- Bandwidth-on-demand

Recommended Action If this is the intended behaviour, no action is required. To enable the PPP interface to be reopened, either reset or increase the charge limit which has been exceeded.

ppp: link over interface closed due to maximum links exceeded

Message ppp<ppp-interface>: <type> link over <phys-interface> has closed due to MAXLINKS being exceeded

| Severity | Module | Type | Subtype |
|----------|--------|-----------|----------|
| 3/INFO | 3/PPP | 004/DLINK | 002/DOWN |

Explanation A dynamic PPP interface has had too many links dynamically added to the interface, exceeding the configured maximum number of links.

Possible *type* values are:

- Primary
- Secondary
- Bandwidth-on-demand

Recommended Action If this is the intended behaviour, no action is required. To enable the link to be added to the bundle on the PPP interface, increase the maximum number of links.

ppp: Loopback mode has been detected

Message ppp<ppp-interface>: Loopback mode has been detected on <type> link over <phys-interface>

| Severity | Module | Type | Subtype |
|-------------|--------|-----------|-----------|
| 5/IMPORTANT | 3/PPP | 004/DLINK | 004/ERROR |

Explanation Loopback mode has been detected on the PPP link, so the link is being reset.

Possible *type* values are:

- primary
- secondary
- bandwidth-on-demand

Recommended Action If this is intended behaviour, no action is required. If not, remove the loopback.

ppp: LQR failure

Message ppp<ppp-interface>: An LQR failure has occurred on <type> link over <phys-interface>

| Severity | Module | Type | Subtype |
|-------------|--------|-----------|-----------|
| 5/IMPORTANT | 3/PPP | 004/DLINK | 004/ERROR |

Explanation A Link Quality Report (LQR) timeout has occurred on a PPP link and the link has been reset.

Possible *type* values are:

- primary
- secondary
- bandwidth-on-demand

Recommended Action Investigate why the PPP peer is not replying to Link Quality Monitoring (LQM) messages.

ppp: No callback number found for user so resetting link

Message ppp<ppp-interface>: No callback number found for user <user-name> so resetting <phys-interface> link

| Severity | Module | Type | Subtype |
|----------|--------|-----------|-----------|
| 3/INFO | 3/PPP | 004/DLINK | 005/RESET |

Explanation There is no callback number stored in the user database for the user requesting a callback, so the PPP link is taken down.

Recommended Action If required, add a callback number to the user database for the user requesting a callback.

Type: VINT

Virtual Interfaces

PPP charge management reset

Message PPP<ppp-interface>: Charge Management Reset. CHARGE = <charge-value>

| Severity | Module | Type | Subtype |
|----------|--------|----------|-----------|
| 4/NOTICE | 3/PPP | 005/VINT | 005/RESET |

Explanation The accumulated charge on the PPP over ISDN interface has been reset by a user command. The value of the charge before the reset is included in the log message.

Recommended Action No action is required.

ppp: DoD interface activated

Message ppp<ppp-interface>: DoD interface activated by <module-id> traffic

followed by one of:

```
<ip-protocol> s=<IP-source-address>
d=<ip-destination-address>
```

or

```
<ipx-protocol> s=<IPX-source-address:socket>
d=<ipx-destination-address:socket>
```

or

```
<dial-on-demand-interface-data>
```

| Severity | Module | Type | Subtype |
|----------|--------|----------|--------------|
| 3/INFO | 3/PPP | 005/VINT | 006/ACTIVATE |

Explanation A pair of log messages for dial-on-demand PPP interface activation.

The first message specifies that a dial-on-demand interface has been activated by data traffic from the user module specified.

The second message specifies one of the following:

- A dial-on-demand interface has been activated by IP data traffic. The IP protocol name or number, and the destination and source addresses, are included.

- A dial-on-demand interface has been activated by IPX data traffic. The IPX protocol name or number, and the destination and source addresses and sockets, are included.
- A dial-on-demand interface has been activated by non-IPX or IP data traffic. Up to 64 characters of the data is given.

Recommended Action If this is the intended behaviour, no action is required. If this is an unexpected and unwelcome event, then investigate why this user module is sending data over the PPP interface.

ppp: Dynamic PPP interface created

Message ppp<ppp-interface>: Dynamic PPP interface created
(template <number>) for <phys-interface>

| Severity | Module | Type | Subtype |
|----------|--------|----------|------------|
| 3/INFO | 3/PPP | 005/VINT | 007/CREATE |

Explanation A Dynamic PPP interface has been created using a specified PPP template.

Recommended Action No action is required.

ppp: Dynamic PPP interface destroyed

Message ppp<ppp-interface>: Dynamic PPP interface destroyed

| Severity | Module | Type | Subtype |
|----------|--------|----------|-------------|
| 3/INFO | 3/PPP | 005/VINT | 008/DESTROY |

Explanation A Dynamic PPP interface has been destroyed.

Recommended Action If this is an unexpected and unwelcome event, investigate why the dynamic interface has been destroyed.

ppp: Interface closed due to limit management being exceeded

Message ppp<ppp-interface>: Interface closed due to limit management being exceeded

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 3/PPP | 005/VINT | 002/DOWN |

Explanation The PPP interface has gone down due to a configured limit being exceeded.

Recommended Action If this is the intended behaviour, no action is required. To enable the PPP interface to be reopened, either reset or increase the link limit which has been exceeded.

ppp: interface has come up

Message ppp<ppp-interface>: Interface has come up and is able to send and receive data

| Severity | Module | Type | Subtype |
|----------|--------|--------|---------|
| 3/INFO | 3/PPP | 5/VINT | 001/UP |

Explanation The PPP interface has come up and is now able to send and receive data.

Recommended Action No action is required.

ppp: interface has gone down

Message ppp<ppp-interface>: Interface has gone down and is unable to send or receive data

| Severity | Module | Type | Subtype |
|-------------|--------|--------|----------|
| 5/IMPORTANT | 3/PPP | 5/VINT | 002/DOWN |

Explanation A PPP interface has gone down and is unable to send or receive data.

Recommended Action If this is the intended behaviour, no action is required. If this is an unexpected and unwelcome event, then investigate why the interface has gone down.

Message ppp<ppp-interface>: Interface has gone down and is unable to send or receive data

| Severity | Module | Type | Subtype |
|----------|--------|--------|----------|
| 3/INFO | 3/PPP | 5/VINT | 002/DOWN |

Explanation A PPP interface configured for dial-on-demand has gone down and is unable to send or receive data.

Recommended Action If this is the intended behaviour, no action is required. If this is an unexpected and unwelcome event, then investigate why the interface as gone down.

ppp: The interface or link failed to open

Message ppp<ppp-interface>: The <interface> failed to open because <limit> has been exceeded

ppp<ppp-interface>: The <link> failed to open because <limit> has been exceeded

| Severity | Module | Type | Subtype |
|----------|--------|----------|-----------|
| 4/NOTICE | 3/PPP | 005/VINT | 004/ERROR |

Explanation An attempt to send data over a PPP interface failed because a PPP link limit has been exceeded.

Possible *limit* values are:

- INDATALIMIT
- ONLINELIMIT
- OUTDATALIMIT
- TOTALDATALIMIT

Recommended Action If you want to reopen the PPP interface, either reset or increase the link limit which has been exceeded.

Template overridden in dynamic interface

Message Template <number> COMP configuration overridden in dynamic interface creation

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 3/PPP | 005/VINT | 003/WARN |

Explanation A dynamic PPP interface has been created over an L2TP virtual call using a template which specifies that compression should be enabled. Compression is not allowed over L2TP calls, so it has not been enabled.

Recommended Action No action is required.

Type: CIRC Circuits

ppp: control protocol has closed

Message ppp<ppp-interface>: <control-protocol> has closed

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 2/DETAIL | 3/PPP | 006/CIRC | 002/DOWN |

Explanation The specified control protocol has left the OPEN state and is now in the down state.

Possible *control-protocol* values are:

- Network Control Protocol (NCP)
- Internet Protocol Control Protocol (IPCP)
- Encryption Control Protocol (ECP)
- Compression Control Protocol (CCP)
- Bandwidth Allocation Control Protocol (BACP)
- Data Manipulation Control Protocol (DMCP)

If ECP is now in the down state and encryption is still enabled on the interface, close all NCPs.

Recommended Action If this is the intended behaviour, no action is required. If this is an unexpected and unwelcome event, then investigate why the control protocol has left the open state.

ppp: control protocol has opened

Message ppp<ppp-interface>: <control-protocol> has opened

| Severity | Module | Type | Subtype |
|----------|--------|--------|---------|
| 2/DETAIL | 3/PPP | 6/CIRC | 001/UP |

Explanation The specified control protocol has successfully negotiated into the OPEN state.

Possible *control-protocol* values are:

- Network Control Protocol (NCP)
- Internet Protocol Control Protocol (IPCP)
- Encryption Control Protocol (ECP)
- Compression Control Protocol (CCP)
- Bandwidth Allocation Control Protocol (BACP)
- Data Manipulation Control Protocol (DMCP)

Recommended Action No action is required.

ppp: module has closed

Message ppp<ppp-interface>: <module-name> has closed

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 2/DETAIL | 3/PPP | 006/CIRC | 002/DOWN |

Explanation The specified PPP interface has just left the Network Control Protocol (NCP) phase for the specified user module.

Recommended Action No action is required.

Type: ATT

Module Attachment

ppp: An attempt by the module to attach has failed

Message PPP: An attempt by the <module-id> module to attach has failed

| Severity | Module | Type | Subtype |
|-------------|--------|---------|----------|
| 5/IMPORTANT | 3/PPP | 007/ATT | 003/FAIL |

Explanation The specified feature has failed to attach to a PPP interface because an interface number that is too big has been passed down.

Possible *module-id* values are:

- IP
- IPX
- DecNet
- AppleTalk
- OSI

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

ppp: The module has attached

Message ppp<ppp-interface>: The <module-id> module has attached

| Severity | Module | Type | Subtype |
|----------|--------|---------|------------------|
| 2/DETAIL | 3/PPP | 007/ATT | 001/ATTCH/ATTACH |

Explanation The specified feature has successfully attached to a PPP interface.

Possible *module-id* values are:

- IP
- IPX
- DecNet
- AppleTalk
- OSI

Recommended Action No action is required.

ppp: The module has detached

Message ppp<ppp-interface>: The <module-id> module has detached

| Severity | Module | Type | Subtype |
|----------|--------|---------|------------------|
| 2/DETAIL | 3/PPP | 007/ATT | 002/DETCH/DETACH |

Explanation The specified feature has successfully detached from a PPP interface.

Possible *module-id* values are:

- IP
- IPX
- DecNet
- AppleTalk
- OSI

Recommended Action No action is required.

Type: AUTH Authentication

ppp: authentication succeeded

Message ppp<ppp-interface>: PAP authentication over <phys-interface> succeeded

| Severity | Module | Type | Subtype |
|----------|--------|----------|---------|
| 3/INFO | 3/PPP | 011/AUTH | 001/OK |

Explanation The PPP interface has either:

- made a PAP authentication request to its peer, and this request has been accepted, or
- received a PAP authentication request from its peer, and this request has been accepted.

Recommended Action No action is required.

Message ppp<ppp-interface>: CHAP authentication over <phys-interface> succeeded

| Severity | Module | Type | Subtype |
|----------|--------|----------|---------|
| 3/INFO | 3/PPP | 011/AUTH | 001/OK |

Explanation The PPP interface has either:

- responded to a CHAP challenge from its peer, and this response has been successful, or
- sent a CHAP challenge to its peer and received a CHAP response which has been evaluated as successful.

As further CHAP challenges will be received or sent during the life of the PPP session, the severity of the log message will be lowered after the first successful response for the session to avoid cluttering up the log with too many messages.

Recommended Action No action is required.

ppp: authentication failed

Message ppp<ppp-interface>: PAP authentication over
<phys-interface> failed

| Severity | Module | Type | Subtype |
|-------------|--------|----------|----------|
| 5/IMPORTANT | 3/PPP | 011/AUTH | 002/FAIL |

Explanation The PPP interface has either:

- made a PAP authentication request to its peer, and this request has been rejected, or
- received a PAP authentication request from its peer, and this request has been rejected.

Recommended Action Check the user-name and password configured for the PPP interface to ensure that they are correct. Check with the system administrator of the PPP peer to see that the configured user-name and password match the user-name and password held by the peer.

Message ppp<ppp-interface>: CHAP authentication over
<phys-interface> failed

| Severity | Module | Type | Subtype |
|-------------|--------|----------|----------|
| 5/IMPORTANT | 3/PPP | 011/AUTH | 002/FAIL |

Explanation The PPP interface has either:

- responded to a CHAP challenge from its peer, and this response has been unsuccessful, or
- sent a CHAP challenge to its peer and received a CHAP response which has been evaluated as unsuccessful.

Recommended Action Check the user-name and password configured for the PPP interface to ensure that they are correct. Check with the system administrator of the PPP peer to see that the configured user-name and password match the user-name and password held by the peer.

Type: INTERR

Internal Errors

ppp: Attach to DS3 interface failed. Return error code

Message ppp<ppp-interface>: Attach to DS3 interface <id> failed.
Return code: <error-code>

| Severity | Module | Type | Subtype |
|-------------|--------|------------|-----------|
| 5/IMPORTANT | 3/PPP | 024/INTERR | 001/BDATT |

Explanation PPP has failed to attach to DS3 (a bad attachment). The user has reset a PPP instance on a swapped-out DS3 interface.

Possible *error-code* values are:

| | |
|---|--------------------|
| 0 | SUCCESS |
| 1 | INST_BAD |
| 2 | ALREADY_LOOPED |
| 3 | ILLEGAL_FORMAT |
| 4 | ILLEGAL_DISCRIM |
| 5 | BAD_RECONFIG |
| 6 | TOO_MANY_PROTOS |
| 7 | ALREADY_CONFIG |
| 8 | LPBK_NOT_SUPPORTED |

Recommended Action Check that the PPP interface is configured over a valid DS3 interface. Check that the DS3 interface is not being used by another feature. Check that there are not two PPP interfaces over the same DS3 interface.

Contact your authorised Allied Telesis distributor or reseller if you require further assistance.

ppp: Attach to ETH interface failed. Return error code

Message ppp<ppp-interface>: Attach to ETH<id> failed. Return code: <error-code>

| Severity | Module | Type | Subtype |
|-------------|--------|------------|-----------|
| 5/IMPORTANT | 3/PPP | 024/INTERR | 003/BDATT |

Explanation An internal error occurred when PPP attempted to attach to the specified ethernet interface in PPPoE Access Concentrator mode for the session stage. Access Concentrator services will not be available over this interface.

Possible *error-code* values are:

| | |
|---|--------------------|
| 0 | SUCCESS |
| 1 | INST_BAD |
| 2 | ALREADY_LOOPED |
| 3 | ILLEGAL_FORMAT |
| 4 | ILLEGAL_DISCRIM |
| 5 | BAD_RECONFIG |
| 6 | TOO_MANY_PROTOS |
| 7 | ALREADY_CONFIG |
| 8 | LPBK_NOT_SUPPORTED |

Recommended Action Check that the PPP interface is configured over a valid ETH interface. Check that the ETH interface is installed.

Contact your authorised Allied Telesis distributor or reseller if you require further assistance.

ppp: Attach to ETH interface for DS failed. Return error code

Message ppp<ppp-interface>: Attach to ETH<id> for DS failed.
Return code: <error-code>

| Severity | Module | Type | Subtype |
|-------------|--------|------------|-----------|
| 5/IMPORTANT | 3/PPP | 024/INTERR | 003/BDATT |

Explanation An internal error occurred when PPP attempted to attach to the specified ethernet interface in PPPoE Access Concentrator mode for the discovery stage. Access Concentrator services will not be available over this interface.

Possible *error-code* values are:

| | |
|---|--------------------|
| 0 | SUCCESS |
| 1 | INST_BAD |
| 2 | ALREADY_LOOPED |
| 3 | ILLEGAL_FORMAT |
| 4 | ILLEGAL_DISCRIM |
| 5 | BAD_RECONFIG |
| 6 | TOO_MANY_PROTOS |
| 7 | ALREADY_CONFIG |
| 8 | LPBK_NOT_SUPPORTED |

Recommended Action Either:

- check that the PPP interface is configured over a valid ETH interface. Check that the ETH interface is installed, or
- check that the PPP is configured over a valid VLAN. Check that the ETH interface is not hot swapped out. Check that it is not a dynamic VLAN, as currently only GARP can attach to dynamic VLANs.

Contact your authorised Allied Telesis distributor or reseller if you require further assistance.

ppp: Attach to SYN interface failed. Return error code

Message ppp<ppp-interface>: Attach to SYN<id> failed. Return code:
<error-code>

| Severity | Module | Type | Subtype |
|-------------|--------|------------|-----------|
| 5/IMPORTANT | 3/PPP | 024/INTERR | 001/BDATT |

Explanation PPP has failed to attach to SYN (a bad attachment).

Possible *error-code* values are:

| | |
|---|--------------------|
| 0 | SUCCESS |
| 1 | INST_BAD |
| 2 | ALREADY_LOOPED |
| 3 | ILLEGAL_FORMAT |
| 4 | ILLEGAL_DISCRIM |
| 5 | BAD_RECONFIG |
| 6 | TOO_MANY_PROTOS |
| 7 | ALREADY_CONFIG |
| 8 | LPBK_NOT_SUPPORTED |

Recommended Action Check that the PPP is configured over a valid SYN interface. Check that the SYN interface is installed. Check that the SYN interface is not being used by another feature. Check that there are not two PPP interfaces over the same SYN interface. Check that the CRC type required is correct.

Contact your authorised Allied Telesis distributor or reseller if you require further assistance.

ppp: Attach to VLAN interface failed for service. Return error code

Message ppp<ppp-interface>: Attach to VLAN<interface-instance> failed for service <service-name>. Return code: <error-code>

| Severity | Module | Type | Subtype |
|-------------|--------|------------|-----------|
| 5/IMPORTANT | 3/PPP | 024/INTERR | 003/BDATT |

Explanation An internal error occurred when PPP attempted to attach to the specified VLAN interface in PPPoE Access Concentrator mode for the session stage. The specified service name will not be available over this interface.

Possible *error-code* values are:

| | |
|---|--------------------|
| 0 | SUCCESS |
| 1 | INST_BAD |
| 2 | ALREADY_LOOPED |
| 3 | ILLEGAL_FORMAT |
| 4 | ILLEGAL_DISCRIM |
| 5 | BAD_RECONFIG |
| 6 | TOO_MANY_PROTOS |
| 7 | ALREADY_CONFIG |
| 8 | LPBK_NOT_SUPPORTED |

Recommended Action Contact your authorised Allied Telesis distributor or reseller if you require further assistance.

ppp: Attach to VLAN interface failed. Return error code

Message ppp<ppp-interface>: Attach to VLAN<id> failed. Return code: <error-code>

| Severity | Module | Type | Subtype |
|-------------|--------|------------|-----------|
| 5/IMPORTANT | 3/PPP | 024/INTERR | 003/BDATT |

Explanation PPP has failed to attach properly to the VLAN.

Possible *error-code* values are:

| | |
|---|--------------------|
| 0 | SUCCESS |
| 1 | INST_BAD |
| 2 | ALREADY_LOOPED |
| 3 | ILLEGAL_FORMAT |
| 4 | ILLEGAL_DISCRIM |
| 5 | BAD_RECONFIG |
| 6 | TOO_MANY_PROTOS |
| 7 | ALREADY_CONFIG |
| 8 | LPBK_NOT_SUPPORTED |

Recommended Action Check that the PPP interface is configured over a valid VLAN. Check that it is not a dynamic VLAN, as only GARP can attach to dynamic VLANs.

Contact your authorised Allied Telesis distributor or reseller if you require further assistance.

ppp: bad packet at L1

Message PPP: Bad packet detected by L1 confirm: <hex-string>

| Severity | Module | Type | Subtype |
|-------------|--------|------------|-----------|
| 5/IMPORTANT | 3/PPP | 024/INTERR | 001/BDPKT |

Explanation A packet passed to the lower layer confirm handler has not passed the validity checks. A confirm means a link of a PPP interface has been requested to be destroyed and that PPP is waiting for confirmation that the last packet has been transmitted before carrying out the request. Because the validity checks have failed, the link can not be destroyed until a valid packet is received by the confirm handler.

Recommended Action Contact your authorised Allied Telesis distributor or reseller for assistance.

ppp: PPPoE active discovery aborted

Message ppp<ppp-interface>: PPPoE active discovery aborted

| Severity | Module | Type | Subtype |
|-------------|--------|------------|-----------|
| 5/IMPORTANT | 3/PPP | 024/INTERR | 003/BDATT |

Explanation Either:

- the maximum number of PPPoE PADI packets have been sent by the device without an acceptable response from an Access Concentrator, or
- the PPPoE active discovery process has been attempted three times without success,

and the PPPoE active discovery process has been aborted.

Recommended Action Check that the Eth or VLAN interface specified by the OVER parameter in the CREATE PPP command is correctly connected. Check that the service name specified by the OVER parameter is correct. Contact the service personnel responsible for the Access Concentrator.

ppp: PPPoE active discovery restarted

Message ppp<ppp-interface>: PPPoE active discovery restarted

| Severity | Module | Type | Subtype |
|-------------|--------|------------|-----------|
| 5/IMPORTANT | 3/PPP | 024/INTERR | 003/BDATT |

Explanation The maximum number of PPPoE PADR packets have been sent by the device without an acceptable response from the Access Concentrator. The active discovery process will be restarted.

Recommended Action No action is required.

Type: LIMIT

System Limits

ppp: No histories available for compression

Message ppp<ppp-interface>: No encoding histories available for Stac LZS compression

ppp<ppp-interface>: No encoding histories available for Predictor compression

ppp<ppp-interface>: No decoding histories available for Stac LZS compression

ppp<ppp-interface>: No decoding histories available for Predictor compression

| Severity | Module | Type | Subtype |
|----------|--------|-----------|-----------|
| 2/DETAIL | 3/PPP | 026/LIMIT | 003/SWCMP |

Explanation The PPP interface is negotiating history values for the Compression Control Protocol (CCP). There is insufficient resource available to provide the requested compression histories, so data on PPP interface *pppn* cannot be compressed or decompressed because there are no history structures available.

Recommended Action For hardware compression, check that the correct compression hardware (MAC or PAC) is present. For software compression, check that the command:

```
set enc sw [predchannels=0..4] [stacchannels=0..4]
           [stacspeed=0..3]
```

is in the boot configuration script and that this script has been run at boot time.

Type: PPPOE PPP over Ethernet

PPPoE: Service requested but currently in use

Message PPPoE: Service <service-name> requested but currently in use

| Severity | Module | Type | Subtype |
|----------|--------|-----------|---------|
| 3/INFO | 3/PPP | 047/PPPoE | 001/SNA |

Explanation A PPPoE PADI packet was received, requesting a service that currently has the maximum allowable number of active sessions.

Recommended Action No action is required. Optionally, increase the maximum allowable number of sessions for the service using the command:

```
set ppp acservice
```

PPPoE: Service requested does not exist

Message PPPoE: Service <service-name> requested but does not exist

| Severity | Module | Type | Subtype |
|----------|--------|-----------|---------|
| 3/INFO | 3/PPP | 047/PPPoE | 002/NAS |

Explanation A PPPoE PADI packet has been received requesting a service name that is not configured on this device.

Recommended Action If PPPoE requests for the specified service name are not supposed to be accepted by the device, no action is required. If such requests should be accepted, configure the service using the command:

```
add ppp acservice
```


Module: APPL

Appletalk

This chapter contains messages belonging to the module APPL, sorted into the following Types:

- ["CONFIG: Configuration" on page 57](#)
- ["ATKFILT: AppleTalk Filters" on page 58](#)

For more information about Appletalk, see the *Appletalk* chapter in the *Software Reference*.

Type: CONFIG Configuration

Def. zone conflict for net

Message Def. zone conflict for net=*<start-of-network-range>-<end-of network-range>*,
zone=*<default-zone-name-assigned-to-network>*;
<new-default-zone-to-be-assigned-to-network> set on port
<port-number>

| Severity | Module | Type | Subtype |
|-------------|--------|------------|-----------|
| 5/IMPORTANT | 4/APPL | 022/CONFIG | 003/NTNAM |

Explanation ZIP detects that there has been an attempt to assign a different default zone to a network already assigned with a specific default zone. All devices on the same physical network must agree on the default zone name for the network.

Recommended Action Make sure that all interfaces of devices in the same physical network have the same default zone assigned to the network.

Net-range conflict

Message Net-range conflict, net=*<start-of-network-range>-<end-of-network-range>*; *<network-number>* set on port
<port-number> *<mac-address-of-RMTP-source>*

| Severity | Module | Type | Subtype |
|-------------|--------|------------|-----------|
| 5/IMPORTANT | 4/APPL | 022/CONFIG | 002/NTNUM |

Explanation RTMP detects that another device on the same physical network (with the specified MAC address) is assigned and advertises different network range.

Recommended Action Make sure that all interfaces of devices in the same physical network have the same network range assigned to them.

Type: ATKFILT AppleTalk Filters

incoming/outgoing AppleTalk DDP packet filter match

Message <out> <interface> <allow> (PKT,<filter>,<entry>):
 <source-network>.<source-node>:<source-socket>-
 ><destination-network>.<destination-node>:
 <destination-socket>

<out> <interface> <deny> (PKT,<filter>,<entry>):
 <source-network>.<source-node>:<source-socket>-
 <destination-network>.<destination-node>:
 <destination-socket>

<in> <interface> <allow> (PKT,<filter>,<entry>):
 <source-network>.<source-node>:<source-socket>-
 ><destination-network>.<destination-node>:
 <destination-socket>

<in> <interface> <deny> (PKT, <filter>, <entry>):
 <source-network>.<source-node>:<source-socket>-
 ><destination-network>.<destination-node>:
 <destination-socket>

| Severity | Module | Type | Subtype |
|----------|--------|-------------|----------------------|
| 3/INFO | 4/APPL | 053/ATKFILT | 001/PASS 002/FAIL |

Explanation A data packet has matched one of the AppleTalk filters.

Recommended Action No action is required.

incoming/outgoing AppleTalk RMTMP packet filter match

Message <out>, <interface>, <allow>, (ROUTE,<filter>,<entry>):
 <source-network>-<source-node> <source-socket>
 <destination-network>.<destination-
 node><destination-socket>

<out>, <interface>, <deny>, (ROUTE,<filter>,<entry>):
 <source-network>-<source-node> <source-socket>
 <destination-network>.<destination-
 node><destination-socket>

<in>, <interface>, <allow>, (ROUTE,<filter>,<entry>):
 <source-network>-<source-node> <source-socket>
 <destination-network>.<destination-
 node><destination-socket>

<in>, <interface>, <deny>, (ROUTE,<filter>,<entry>):
 <source-network>-<source-node> <source-socket>
 <destination-network>.<destination-
 node><destination-socket>

| Severity | Module | Type | Subtype |
|----------|--------|-------------|----------|
| 3/INFO | 4/APPL | 053/ATKFILT | 001/PASS |
| | | | 002/FAIL |

Explanation A RMTMP data packet has matched one of the AppleTalk filters.

Recommended Action No action is required.

incoming/outgoing AppleTalk Zone packet filter match

Message <out>, <interface>, <allow>, (ZONE,<filter>, <entry>):
 <source-network>-<source-node> <source-socket>
 <destination-network>.
 <destination-node><destination-socket>

<out>, <interface>, <allow>, (ZONE,<filter>, <entry>):
 <source-network>-<source-node> <source-socket>
 <destination-network>.<destination-
 node><destination-socket>

<in>, <interface>, <allow>, (ZONE,<filter>, <entry>):
 <source-network>-<source-node> <source-socket>
 <destination-network>.
 <destination-node><destination-socket>

<in>, <interface>, <allow>, (ZONE,<filter>, <entry>):
 <source-network>-<source-node> <source-socket>
 <destination-network>.<destination-
 node><destination-socket>

| Severity | Module | Type | Subtype |
|----------|--------|-------------|----------|
| 3/INFO | 4/APPL | 053/ATKFILT | 001/PASS |
| | | | 002/FAIL |

Explanation A ZONE data packet has matched one of the AppleTalk filters.

Recommended Action No action is required.

Module: IPG

IP Gateway

This chapter contains messages belonging to the module IPG, sorted into the following Types:

- "VINT: Virtual Interfaces" on page 62
- "CIRC: Circuits" on page 63
- "MSG: General Messages" on page 66
- "IPFILT: IP Filters" on page 67
- "IPDNS: Domain Name Server" on page 72
- "ARP: Address Resolution Protocol" on page 73

For more information about IP, IP filters, DNS and ARP, see the *Internet Protocol (IP)* chapter in the *Software Reference*.

For more information about PPP, see the *Point-to-Point Protocol (PPP)* chapter in the *Software Reference*.

Type: VINT

Virtual Interfaces

DoD interface activated by IP traffic

Message `<interface-name>`: DoD interface activated by IP traffic

| Severity | Module | Type | Subtype |
|----------|--------|----------|--------------|
| 3/INFO | 5/IPG | 005/VINT | 006/ACTIVATE |

Explanation Called to indicate that a dial on demand IP interface has come up.

Recommended Action No action is required.

IPG: NAT packet logging output - PPP interface has come up

Message `<out-string>`

| Severity | Module | Type | Subtype |
|----------|--------|----------|--------------|
| 3/INFO | 5/IPG | 005/VINT | 006/ACTIVATE |

Explanation This message displays output for NAT packet logging - part of a call to indicate that a PPP interface has come up. The specific log string output depends on the protocol type.

Recommended Action This message can be useful for debugging purposes.

Type: CIRC Circuits

Illegal interface name, cannot set requested IP address

Message Illegal interface *<interface-name>*, cannot set requested IP *<ip-address-to-be-assigned>*

| Severity | Module | Type | Subtype |
|-------------|--------|----------|----------|
| 5/IMPORTANT | 5/IPG | 006/CIRC | 006/CONF |

Explanation An attempt to assign an IP address to a dynamic address IP interface by either PPP or DHCP has failed.

Recommended Action Reset the PPP interface associated with the interface, or reset the IP interface if it is a DHCP assignment.

Interface is not renumbered, cannot reset IP address

Message Interface *<encoded-interface-name>* is not renumbered, cannot reset IP address

| Severity | Module | Type | Subtype |
|-------------|--------|----------|----------|
| 5/IMPORTANT | 5/IPG | 006/CIRC | 006/CONF |

Explanation An attempt to un-assign an IP address from an IP interface by either PPP or DHCP has failed because the interface has not been assigned with an IP address remotely (static assignment).

Recommended Action Reset the PPP interface associated with the interface, or reset the IP interface if it is a DHCP assignment.

Interface nonexistent/numbered, cannot set IP address

Message Interface <interface-name> nonexistent/numbered (<interface-type>/<existing-ip-address>), cannot set IP <assigned-ip-address>

| Severity | Module | Type | Subtype |
|-------------|--------|----------|----------|
| 5/IMPORTANT | 5/IPG | 006/CIRC | 006/CONF |

Explanation An attempt to assign an IP address by either PPP or DHCP to either a dynamic address IP interface which already has an IP address assigned to it, or an interface that is not ready, has failed.

Recommended Action Reset the PPP interface associated with the interface, or reset the IP interface if it is a DHCP assignment.

Local request to reset IP interface accepted

Message Local request to reset <interface-name> IP accepted

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 5/IPG | 006/CIRC | 006/CONF |

Explanation An attempt to un-assign an IP address from an IP interface by either PPP or DHCP has succeeded.

Recommended Action No action is required.

Remote request to set IP interface to IP address accepted

Message Remote request to set <interface-name> IP to <assigned-ip-address> accepted

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 5/IPG | 006/CIRC | 006/CONF |

Explanation An attempt to assign an IP address to a dynamic address IP interface by either PPP or DHCP has succeeded.

Recommended Action No action is required.

Remote request to set IP interface to IP address refused, duplicate address

Message Remote request to set <interface-name> IP to <assigned-ip-address> refused, duplicate address (IfIndex <ip-interface-ifindex>)

| Severity | Module | Type | Subtype |
|-------------|--------|----------|----------|
| 5/IMPORTANT | 5/IPG | 006/CIRC | 006/CONF |

Explanation An attempt to assign an IP address to a dynamic address IP interface by either PPP or DHCP has failed because the IP address is being used by another IP interface in this device.

Recommended Action Check the network interface configuration - DHCP server, PPP server, or device configuration.

Remote request to set IP interface to IP address refused, feature is disabled

Message Remote request to set <interface-name> IP to <ip-address-to-be-assigned> refused, feature is disabled

| Severity | Module | Type | Subtype |
|-------------|--------|----------|----------|
| 5/IMPORTANT | 5/IPG | 006/CIRC | 006/CONF |

Explanation An attempt to assign an IP address to a dynamic address IP interface by either PPP or DHCP has failed, because remote IP address assignment has been turned off.

Recommended Action Enable remote IP address assignment.

Type: MSG

General Messages

IGMP - No general query

Message IGMP - No general query within <time-interval> seconds on <interface>.

| Severity | Module | Type | Subtype |
|-------------|--------|---------|----------|
| 5/IMPORTANT | 5/IPG | 021/MSG | 002/WARN |

Explanation No IGMP general query message has been received on the interface within the configured query timeout interval.

Recommended Action Check for connectivity between the device and the multicast router acting as a Querier on the sub-network.

Check the current status of the Querier.

If the interface which generated the log message is not a downstream multicasting port, use the **set ip igmp interface** command to set the **querytimeout** to zero.

IGMP - Corrupt filter entry removed

Message IGMP - Corrupt filter entry removed. Contact customer support. Filter=<filter-id> Entry=<entry>

| Severity | Module | Type | Subtype |
|----------|--------|---------|-----------|
| 6/URGENT | 5/IPG | 021/MSG | 003/ERROR |

Explanation Memory corruption has damaged an IGMP filter entry. The filter entry has been deleted.

Recommended Action Contact your authorised Allied Telesis distributor or reseller for further assistance.

Type: IPFILT IP Filters

Deny SrcRouted

Message Deny SrcRouted <source-ip-address>><destination-ip-address>
<ip-protocol-name-or-number>

| Severity | Module | Type | Subtype |
|----------|--------|------------|-----------|
| 3/INFO | 5/IPG | 023/IPFILT | 006/SRCRT |

Explanation The device has received a source-routed packet. If the device is not configured to forward source-routed packets (by default, it is not) then the packet will be silently discarded and this log is generated.

Recommended Action No action is required.

DirBcast Fail

Message DirBcast Fail <source-ip-address>><destination-ip-address>
Prot=<ip-protocol-number> Int=<ip-interface>

| Severity | Module | Type | Subtype |
|----------|--------|------------|----------|
| 3/INFO | 5/IPG | 023/IPFILT | 004/FRAG |

Explanation The IP forwarding engine has received a directed broadcast packet for one of its egress interface, but the egress interface is configured not to forward directed broadcast traffic.

Recommended Action No action is required.

Message DirBcast Fail <source-ip-address>><destination-ip-address>
Prot=<protocol> Int=<interface>
(<failed-directed-broadcasts>)

| Severity | Module | Type | Subtype |
|----------|--------|-----------|----------|
| 3/INFO | 5/IPG | 023/IPFIL | 004/FRAG |

Explanation The number of directed broadcasts that have failed in the last 10 seconds. A directed broadcast fails when an interface does not allow it.

Recommended Action No action is required.

Fragment Fail

Message Fragment Fail <source-ip-address>><destination-ip-address>
 Protocol <ip-protocol-number> D=<don't-fragment-flag>
 M=<more-fragment-flag> ID=<ip-packet-id>
 Ofs=<fragment-offset>

| Severity | Module | Type | Subtype |
|----------|--------|------------|----------|
| 3/INFO | 5/IPG | 023/IPFILT | 004/FRAG |

Explanation The IP forwarding engine has received tiny IP fragments from the specified source. This is usually associated with an IP fragment security attack. These types of packets are automatically dropped by the device if fragment filtering is enabled.

Recommended Action No action is required.

ipIntPt == NULL

Message ipIntPt == NULL
 ipRouteIpIntIndex == <non-ip-interface-index-number>

| Severity | Module | Type | Subtype |
|-------------|--------|------------|----------|
| 5/IMPORTANT | 5/IPG | 023/IPFILT | 004/FRAG |

Explanation Unable to forward because this interface is not valid - not in the route lookup table.

Recommended Action No action is required.

IPG: IP packet filter has matched packet

Message *<filter-number>/<pattern-number> <pass>
<source-ip-address><destination-ip-address>
<ip-protocol-name-or-number>*

*<filter-number>/<pattern-number> <fail>
<source-ip-address><destination-ip-address>
<ip-protocol-name-or-number>*

| Severity | Module | Type | Subtype |
|----------|--------|------------|----------|
| 3/INFO | 5/IPG | 023/IPFILT | 001/PASS |

| Severity | Module | Type | Subtype |
|----------|--------|------------|----------|
| 3/INFO | 5/IPG | 023/IPFILT | 001/FAIL |

Explanation This indicates that the specified IP packet filter has resulted in a match for a packet with the specified IP addresses and protocol number. If 'Pass' is specified, it means that the packet is allowed to be received by the interface. If 'Fail' is specified, it means that the packet is not allowed to be received by the interface.

Recommended Action No action is required.

IPG: packet dump

Message *<byte-pattern-of-packet-filtered>*

| Severity | Module | Type | Subtype |
|----------|--------|------------|----------|
| 3/INFO | 5/IPG | 023/IPFILT | 003/DUMP |

Explanation This is the packet dump of the packet matching a specific filter.

Recommended Action No action is required.

outLogIntPt == NULL

Message outLogIntPt == NULL
ipRouteLogIntIndex == <non-logical-interface-index-number>

| Severity | Module | Type | Subtype |
|-------------|--------|------------|----------|
| 5/IMPORTANT | 5/IPG | 023/IPFILT | 004/FRAG |

Explanation Unable to forward because this interface is not valid - not in the route lookup table.

Recommended Action No action is required.

Record Route

Message Record Route <source-ip-address><destination-ip-address>
<ip-protocol-name-or-number>

| Severity | Module | Type | Subtype |
|----------|--------|------------|-----------|
| 3/INFO | 5/IPG | 023/IPFILT | 007/RECRT |

Explanation The device has received a packet with record route option.

Recommended Action No action is required.

SA Fail BlockMode

Message SA Fail BlockMode <packet-source><packet-destination>
Protocol <packet-protocol>

| Severity | Module | Type | Subtype |
|----------|--------|------------|---------|
| 3/INFO | 5/IPG | 023/IPFILT | 005/SA |

Explanation Packet has been discarded due to not having an ESP header and the interface being in block mode for non-SA traffic.

Recommended Action Check configuration, otherwise this could be unauthorised packet being received and discarded. Source address should give some clues as to who is sending the traffic.

SA Fail Spoof?

Message SA Fail Spoof?
 <source-ip-address>><destination-ip-address> Protocol
 <ip-protocol-number>

| Severity | Module | Type | Subtype |
|----------|--------|------------|---------|
| 3/INFO | 5/IPG | 023/IPFILT | 005/SA |

Explanation The IP forwarding engine configured with a security association has received a packet from a source claiming to have the same address as one of the device interface addresses. This is usually associated with an IP spoofing security attack. These types of packets are automatically dropped by the device.

Recommended Action Check to make sure the SA peer device is configured correctly. Otherwise, this might be a deliberate security attack by a malicious device. No further action is required.

Spoofed packet Fail

Message Spoofed packet Fail
 <source-ip-address>><destination-ip-address>
 Prot=<ip-protocol-number> Int=<ip-interface>

| Severity | Module | Type | Subtype |
|----------|--------|------------|----------|
| 3/INFO | 5/IPG | 023/IPFILT | 004/FRAG |

Explanation The IP forwarding engine has received packets from a source claiming to have the same address as one of the device interface addresses. This is usually associated with an IP spoofing security attack. These types of packets are automatically dropped by the device.

Recommended Action No action is required.

Type: IPDNS

Domain Name Server

The DNS cache is full

Message The DNS cache is full - `<max-dns-cache-size>` entries

| Severity | Module | Type | Subtype |
|-------------|--------|-----------|-----------|
| 5/IMPORTANT | 5/IPG | 052/IPDNS | 001/CACHE |

Explanation The maximum number of DNS cache entries has been reached. If new entries are added, old entries will be aged out or deleted.

Recommended Action No action is required

DNS request rejected by server

Message DNS request for `<domain-name>` rejected by server. Code `<number>`, `<text>`

| Severity | Module | Type | Subtype |
|----------|--------|-----------|-----------|
| 3/INFO | 5/IPG | 052/IPDNS | 002/UNRES |

Explanation A DNS request was rejected by the DNS server. The possible error codes and meanings are listed in the following table.

| Code | Text | Explanation |
|------|-----------------------|---|
| 0 | No Error | No error occurred. |
| 1 | Format Error | There was a problem with message construction. |
| 2 | Server Failure | There was a problem with the server itself. |
| 3 | Name Error | The name does not exist in the domain. |
| 4 | Query Not Implemented | The received query is not supported. |
| 5 | Refused | Refused for policy, rather than technical, reasons. |
| 6 | YX Domain | The name exists when it should not. |
| 7 | YX RR Set | A resource record exists that should not. |
| 8 | NX RR Set | A resource record that should exist does not exist. |
| 9 | Not Authoritative | The receiving server is not authoritative. |
| 10 | Not Within Zone | The specified name is not within the zone specified in the message. |

Recommended Action If the error code indicates a problem with the server, check the server configuration. If the error code indicates a problem with the format of the DNS request, contact your authorised Allied Telesis distributor or reseller.

Type: ARP Address Resolution Protocol

IPG: ARP entry added for IP address and MAC address

Message `<system-location> p<port-number> v<vlan-number> add
<mac-address> (ip-address)`

| Severity | Module | Type | Subtype |
|----------|--------|---------|------------|
| 3/INFO | 5/IPG | 061/ARP | 001/UPDATE |

Explanation An ARP binding for the IP address and the MAC address has been detected on the specified port and VLAN.

Recommended Action No action is required.

Message `<system-location> <ip-interface> add <mac-address>
(ip-address)`

| Severity | Module | Type | Subtype |
|----------|--------|---------|------------|
| 3/INFO | 5/IPG | 061/ARP | 001/UPDATE |

Explanation An ARP binding for the IP address and the MAC address has been detected on the specified IP interface.

Recommended Action No action is required.

IPG: ARP entry deleted for IP address and MAC address

Message `<system-location> p<port-number> v<vlan-number> del <mac-address> (ip-address)`

| Severity | Module | Type | Subtype |
|----------|--------|---------|------------|
| 3/INFO | 5/IPG | 061/ARP | 001/UPDATE |

Explanation An ARP entry was deleted for the specified IP address and the MAC address on the specified port and VLAN. The host with that MAC address no longer uses that IP address, and/or cannot be reached through that port and VLAN.

Recommended Action No action is required.

Message `<system-location> <ip-interface> del <mac-address> (ip-address)`

| Severity | Module | Type | Subtype |
|----------|--------|---------|------------|
| 3/INFO | 5/IPG | 061/ARP | 001/UPDATE |

Explanation An ARP entry was deleted for the specified IP address and the MAC address on the specified IP interface. The host with that MAC address no longer uses that IP address, and/or cannot be reached through that IP interface.

Recommended Action No action is required.

Module: IPX

Novell IPX

This chapter contains messages belonging to the module IPX, sorted into the following Types:

- ["CONFIG: Configuration" on page 76](#)
- ["LIMIT: System Limits" on page 77](#)

For more information about IPX, see the *Novell IPX* chapter in the *Software Reference*.

Type: CONFIG Configuration

Router at Node on Network says Network Number is ...

Message Router at Node *<advertiser-ipx-node-number>* on Network *<ipx-circuit number>* says Network Number is *<advertised-network-number>*

| Severity | Module | Type | Subtype |
|-------------|--------|------------|-----------|
| 5/IMPORTANT | 6/IPX | 022/CONFIG | 002/NTNUM |

Explanation The specified IPX circuit has detected that a device with the specified node number advertises a different network number on the same physical IPX circuit.

Recommended Action Assign the same network number for all IPX circuits attached to the same physical network.

Type: LIMIT

System Limits

IPX - service table full, new service not added

Message IPX - service table full, new service not added

| Severity | Module | Type | Subtype |
|----------|--------|-----------|-----------|
| 4/NOTICE | 6/IPX | 026/LIMIT | 002/IPXRT |

Explanation An attempt to add a static IPX service entry on the device has failed because the IPX service table is full.

Recommended Action Delete unnecessary entries in the table. To display the service table, use the command **show ipx service**.

Module: SYN

Synchronous Ports

This chapter contains messages belonging to the module SYN, sorted into the following Types:

- [“PINT: Physical Layer Interfaces” on page 79](#)

For more information about SYN, see the *Interfaces* chapter in the *Software Reference*.

Type: PINT

Physical Layer Interfaces

SYN: interface is down

Message SYN<*interface-number*>: interface is DOWN

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 6/URGENT | 7/SYN | 002/PINT | 002/DOWN |

Explanation The specified SYN interface has gone down. There are a number of possible reasons for this. Use recent command history and the surrounding log messages to determine the cause. Possibilities include:

- the test module has been activated for that interface
- the attached layer 2 feature for that interface has been detached
- a DISABLE SYN command was entered
- a RESET SYN command was entered
- the modem control signal that indicates link status has gone inactive

Recommended Action For most of these causes, no action is required, assuming that the cause was intentional (for example, assuming that the layer 2 feature was intentionally detached).

If an interface is being tested, the interface will come back up again when the test completes. If a DISABLE SYN command was entered, the interface will be able to come back up after an ENABLE SYN command is entered. If a RESET SYN command was entered, the SYN interface will be able to come back up again when the RESET SYN action completes.

However, if the SYN interface has gone down because the modem control signal that indicates link status has gone inactive, then check the status of the cable and modem attached to the specified interface. This message may indicate a problem with the communications link or perhaps the modem. Contact your telecommunications service provider for assistance.

SYN: interface is up

Message SYN<*interface-number*>: interface is UP

| Severity | Module | Type | Subtype |
|----------|--------|----------|---------|
| 3/INFO | 7/SYN | 002/PINT | 001/UP |

Explanation The specified SYN interface has come up.

Recommended Action No action is required.

syn: modem control change

Message syn(<*interface-number*>): <*modem-control-signal-name*> modem control <*modem-control-signal-direction*> change to <*signal-state*>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 2/DETAIL | 7/SYN | 002/PINT | 003/WARN |

Explanation The specified modem control signal for the specified SYN interface has changed.

Recommended Action This modem control signal is not a link status input and so is not an indicator of communications link status. However, if the change is unexpected then it may indicate a communications problem. This message is also generated when modem control outputs are changed by command or in response to a modem control input signal change. If there appears to be a communication problem then contact your telecommunications service provider for assistance.

syn: modem control changed n times in last 10 minutes

Message syn(<*interface-number*>): <*modem-control-signal-name*> modem control <*modem-control-signal-direction*> changed <*number*> times in last 10 minutes

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 4/NOTICE | 7/SYN | 002/PINT | 003/WARN |

Explanation The specified modem control signal for the specified SYN interface has changed multiple times in the last 10 minutes.

Recommended Action This modem control signal is not a link status input and so is not an indicator of communications link status. However, if the change is unexpected then it may indicate a communications problem. This message is also generated when modem control outputs are changed by command or in response to a modem control input signal change. If there appears to be a communication problem then contact your telecommunications service provider for assistance.

syn: modem control input change

Message `syn(<interface-number>): <modem-control-input-name> modem control input change to <input-state>`

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 6/URGENT | 7/SYN | 002/PINT | 003/WARN |

Explanation The modem control input that indicates the link status for the specified SYN interface has changed.

Recommended Action If the link has been expected to become active or inactive then no action is required, but an unexpected link status change may indicate a problem with the communications link or perhaps the modem. Contact your telecommunications service provider for assistance.

syn: modem control input changed n times in last 10 minutes

Message `syn(<interface-number>): <modem-control-input-name> modem control input changed <number> times in last 10 minutes`

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 6/URGENT | 7/SYN | 002/PINT | 003/WARN |

Explanation The modem control input that indicates the link status for the specified SYN interface has changed state multiple times in the last 10 minutes.

Recommended Action This usually indicates a problem with the modem or the communications link attached to the SYN interface. Contact your telecommunications service provider for assistance.

Module: X25C

X.25 DCE Facility

This chapter contains messages belonging to the module X25, sorted into the following Types:

- ["CIRC: Circuits" on page 83](#)

For more information about X.25 DCE, see the X.25 chapter in the *Software Reference*.

Type: CIRC Circuits

X.25 call UP

Message `x25c<interface-number>:LC=<logical-channel-group-number>/
<logical-channel-number> incoming call UP,
loc=<DTE-address>,rem=<DTE-address>`

`x25c<interface-number>:LC=<logical-channel-group-number>/
<logical-channel-number> outgoing call UP,
loc=<DTE-address>,rem=<DTE-address>`

| Severity | Module | Type | Subtype |
|----------|--------|----------|---------|
| 3/INFO | 13/X25 | 006/CIRC | 001/UP |

Explanation An X.25 call has just come up.

Recommended Action No action is required.

X.25C call DOWN

Message `x25c<interface-number>:LC=<logical-channel-group-number>/
<logical-channel-number> DOWN from <location>(c=<cause>,
d=<diagnostic>),loc=<DTE-address>,rem=<DTE-address>`

`x25c<interface-number>:LC=<logical-channel-group-number>/
<logical-channel-number> DOWN from <location>(c=<cause>,
d=<diagnostic>),loc=<DTE-address>,rem=<DTE-address>`

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 13/X25 | 006/CIRC | 002/DOWN |

Explanation An X.25 call has just gone down.

Possible *location* values are:

- DTE
- Remote
- Local

Recommended Action A call going down can be routine or part of a network problem. Try to establish cause of the call going down and rectify the issue.

X.25C call reset

Message x25c<interface-number>:LC=<logical-channel-group-number>/
<logical-channel-number> RESET from
<location> (c=<cause>), loc=<DTE-address>, rem=<DTE-address>

x25c<interface-number>:LC=<logical-channel-group-number>/
<logical-channel-number> RESET from <location> (c=<cause>,
d=<diagnostic>), loc=<DTE-address>, rem=<DTE-address>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 13/X25 | 006/CIRC | 002/DOWN |

Explanation An X.25 call has been reset.

Possible *location* values are:

- DTE
- Remote
- Local

Recommended Action A call reset can be routine or part of a network problem. Try to establish cause of the call reset and rectify the issue.

X.25 RESTART

Message x25c<interface-number>: RESTART from <location> (c=<cause>)

x25c<interface-number>: RESTART from <location> (c=<cause>,
d=<diagnostic>)

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 13/X25 | 006/CIRC | 002/DOWN |

Explanation An X.25 interface has been restarted, which clears all active calls.

Possible *location* values are:

- DTE
- Remote
- Local

Recommended Action Investigate using cause and diagnostic information specified in the message.

Module: LAPB

X.25 Link Access Protocol, Balanced

This chapter contains messages belonging to the module LAPB, sorted into the following Types:

- [“NULL \(000\): General Messages” on page 86](#)
- [“DLINK: Data-Link Layer” on page 87](#)

For more information about LAPB, see the X.25 chapter in the *Software Reference*.

Type: NULL (000) General Messages

LAPB: error type

Message LAPB<*instance-number*>: Error type is <*error*>. State:
<*LAPB-state-when-bad-packet-received*>. Len:
<*length-of-data-in-frame*>. Frame:
<*from-first-up-to-10-characters-of-the-frame*>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 19/LAPB | 000/NULL | 000/NULL |

Explanation A LAPB packet has been received which contained an error. This log message is output from the generic error logging routine called to log bad packets.

Recommended Action If the LAPB interface is working correctly, and this message is seen in isolation, ignore this message. If the message is associated with a LAPB outage, or if there are many occurrences of the message, inform your authorised Allied Telesis distributor or reseller.

LAPB: FRMR frame

Message LAPB<*instance-number*>: <*sent*> FRMR frame. State:
<*lapb-state-when-the-frmr-packet-sent*>. FRMR:
<*up-to-10-bytes-of-the-data-in-the-frmr-packet*>

LAPB<*instance-number*>: <*received*> FRMR frame. State:
<*lapb-state-when-the-frmr-packet-received*>. FRMR:
<*up-to-10-bytes-of-the-data-in-the-frmr-packet*>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 19/LAPB | 000/NULL | 000/NULL |

Explanation A FRMR packet has been received or sent.

Recommended Action If the LAPB interface is working correctly, and this message is seen in isolation, ignore this message. If the message is associated with a LAPB outage, or if there are many occurrences of the message, inform your authorised Allied Telesis distributor or reseller.

Type: DLINK Data-Link Layer

LAPB: interface is down

Message LAPB<*instance-number*>: interface is DOWN

| Severity | Module | Type | Subtype |
|----------|---------|-----------|----------|
| 6/URGENT | 19/LAPB | 004/DLINK | 002/DOWN |

Explanation The specified LAPB interface has just gone down. This can be the result of either a command handler disabling the SYN interface over which this LAPB interface is operating, a change in control signal status on the SYN interface, or the ISDN call terminating over which the LAPB interface is operating.

Recommended Action Investigate to determine the cause of the log message and inform the relevant ISDN or X.25 network provider if required.

LAPB: interface is REMOTE_BUSY

Message LAPB<*instance-number*>: interface is REMOTE_BUSY

| Severity | Module | Type | Subtype |
|----------|---------|-----------|----------|
| 3/INFO | 19/LAPB | 004/DLINK | 003/WARN |

Explanation The specified LAPB interface has just entered REMOTE_BUSY state.

Recommended Action If repeated occurrences are logged, check with your service provider whether there is any type of fault or outage with the service. If the service provider does not have any problem with the service, then request support from your authorised Allied Telesis distributor or reseller.

LAPB: interface is reset

Message LAPB<*instance-number*>: interface is Reset

| Severity | Module | Type | Subtype |
|----------|---------|-----------|-----------|
| 6/URGENT | 19/LAPB | 004/DLINK | 005/RESET |

Explanation The specified LAPB interface has just been reset due to receiving a SABM frame in the REMOTE_BUSY state, thereby only requiring a partial reset.

Recommended Action Reset has already occurred. If repeated occurrences are logged, check with your service provider whether there is any type of fault or outage with the service. If the service provider does not have any problem with the service, then request support from your authorised Allied Telesis distributor or reseller.

LAPB: interface is up

Message LAPB<*instance-number*>: interface is UP

| Severity | Module | Type | Subtype |
|----------|---------|-----------|---------|
| 6/URGENT | 19/LAPB | 004/DLINK | 001/UP |

Explanation The specified LAPB interface has just come up.

Recommended Action No action is required.

LAPB: REMOTE_BUSY is cleared

Message LAPB<*instance-number*>: REMOTE_BUSY is cleared

| Severity | Module | Type | Subtype |
|----------|---------|-----------|----------|
| 3/INFO | 19/LAPB | 004/DLINK | 003/WARN |

Explanation The specified LAPB interface has just exited REMOTE_BUSY state.

Recommended Action If repeated occurrences are logged, check with your service provider whether there is any type of fault or outage with the service. If the service provider does not have any problem with the service, then request support from your authorised Allied Telesis distributor or reseller.

Module: SWIT, SWTH

Switching

This chapter contains messages belonging to the module SWIT (module ID 32), sorted into the following Types:

- [“PINT: Physical Layer Interfaces” on page 90](#)

This module is one of several that are concerned with switching functionality on various products. The other switching modules are:

- [“SWIT: Switching” on page 91](#) (module ID 87)
- [“SWK: Switching” on page 95](#) (module ID 102)
- [“SWCX: Switching” on page 98](#) (module ID 115)

For more information about switching and switch ports, see the *Switching* chapter in the *Software Reference*.

Type: PINT

Physical Layer Interfaces

Remote fault at other end of port

Message Remote fault at other end of port *<port-number>*

| Severity | Module | Type | Subtype |
|----------|---------|----------|-----------|
| 6/URGENT | 32/SWTH | 002/PINT | 004/ERROR |

Explanation The port has received an interrupt indicating that the remote end has an error. This is usually due to the removal of the plug at the remote end.

Recommended Action Check the port at the remote end and rectify the problem. Usually this means plugging the plug back in.

Remote fault at other end of port now corrected

Message Remote fault at other end of port *<port-number>* now corrected

| Severity | Module | Type | Subtype |
|-------------|---------|----------|-----------|
| 5/IMPORTANT | 32/SWTH | 002/PINT | 004/ERROR |

Explanation The port at the remote end has recovered from the fault.

Recommended Action No action is required. This message indicates that the error has been fixed.

Router has been restarted due to switch chip lock up

Message Router has been restarted due to switch chip lock up

| Severity | Module | Type | Subtype |
|----------|---------|----------|-----------|
| 6/URGENT | 32/SWTH | 002/PINT | 004/ERROR |

Explanation The device has been warm restarted due to a switch chip malfunction.

Recommended Action This could indicate a hardware problem. Contact your authorised Allied Telesis distributor or reseller for assistance.

Module: SWIT

Switching

This chapter contains messages belonging to the module SWIT (module ID 87), sorted into the following Types:

- ["PINT: Physical Layer Interfaces" on page 92](#)
- ["INTERR: Internal Errors" on page 93](#)
- ["SWI: Switching" on page 94](#)

This module is one of several that are concerned with switching functionality on various products. The other switching modules are:

- ["SWIT, SWTH: Switching" on page 89](#) (module ID 32)
- ["SWK: Switching" on page 95](#) (module ID 102)
- ["SWCX: Switching" on page 98](#) (module ID 115)

For more information about switching and switch ports, see the *Switching* chapter in the *Software Reference*.

Type: PINT

Physical Layer Interfaces

Port: interface is down

Message Port <port-number>: interface is DOWN

| Severity | Module | Type | Subtype |
|----------|-----------|----------|----------|
| 6/URGENT | 87/SWITCH | 002/PINT | 002/DOWN |

Explanation A link down event has occurred on the specified port.

Recommended Action No action is required. However, if port is not supposed to be down, check the device at other end and the cabling.

Port: interface is up

Message Port <port-number>: interface is UP

| Severity | Module | Type | Subtype |
|----------|-----------|----------|---------|
| 6/URGENT | 87/SWITCH | 002/PINT | 001/UP |

Explanation A link up event occurred on the specified port.

Recommended Action No action is required. However, you may need to investigate why the port was down previously.

Switch inst: S chan err interrupt

Message Switch inst <instance-number>: S chan err interrupt:
<error-code>

| Severity | Module | Type | Subtype |
|------------|-----------|----------|-----------|
| 7/CRITICAL | 87/SWITCH | 002/PINT | 004/ERROR |

Explanation The specified switch chip has generated the specified error code.

Recommended Action This could indicate a hardware problem. Contact your authorised Allied Telesis distributor or reseller for assistance.

Type: INTERR

Internal Errors

CAM management fault has occurred

Message `<calling-function-name>[switch-instance]: Level = <stack-address-level>, [<stack-return-addresses>]`

| Severity | Module | Type | Subtype |
|----------|---------|------------|-----------|
| 6/URGENT | 87/SWIT | 024/INTERR | 002/IVPAR |

Explanation A Content Addressable Memory (CAM) management fault has occurred.

Recommended Action Output the contents of CAM and the CAM segments using the commands:

```
show switch table=cam
show switch table=cams
```

Output a snapshot of the state of the device immediately before the management fault, using the command:

```
show debug
```

Contact your authorised Allied Telesis distributor or reseller and send them the output of these commands, along with the log message.

Internal Port: HW failure

Message `Internal Port:<internal-port>-<internal-port> HW failure`

| Severity | Module | Type | Subtype |
|----------|-----------|------------|-----------|
| 6/URGENT | 87/SWITCH | 024/INTERR | 002/IVPAR |

Explanation The SwitchBlade's internal ports have been in a link down state for approximately one minute, when they should be link up.

Recommended Action Check that the blades which relate to the ports in the log message are inserted fully. The blades may require hot swapping out, then back in again. If this does not resolve the problem, the control card and/or linecard may need to be replaced or checked for required modifications.

Type: SWI Switching

PP memory check

Message PP memory check

| Severity | Module | Type | Subtype |
|------------|-----------|---------|------------|
| 004/NOTICE | 87/SWItch | 066/SWI | 003/LOCKUp |

Explanation A silicon lockup was detected in a packet processor chip.

Recommended Action The switch will automatically restart in an attempt to resolve the problem. If the problem persists, contact your authorised Allied Telesis distributor or reseller.

Loop detection has detected a loop

Message Loop detection has detected a loop on Port <port-number>

| Severity | Module | Type | Subtype |
|--------------|-----------|---------|----------|
| 007/CRITICAL | 87/SWItch | 066/SWI | 004/LOOP |

Explanation A loop has been detected on the specified port.

Recommended Action Investigate the physical connections in the network and the STP configuration to find the cause of the loop.

Loop detection has disabled Port

Message Loop detection has disabled Port <port-number>

| Severity | Module | Type | Subtype |
|------------|-----------|---------|----------|
| 006/URGENT | 87/SWItch | 066/SWI | 005/DISP |

Explanation The specified port has been disabled by loop detection.

Recommended Action Investigate the physical connections in the network and the STP configuration to find the cause of the loop. The port will automatically be re-enabled after a timeout period (300 seconds by default).

Module: SWK

Switching

This chapter contains messages belonging to the module SWK, sorted into the following Types:

- ["REST: Restart" on page 96](#)
- ["INTERR: Internal Errors" on page 97](#)

This module is one of several that are concerned with switching functionality on various products. The other switching modules are:

- ["SWIT, SWTH: Switching" on page 89](#) (module ID 32)
- ["SWIT: Switching" on page 91](#) (module ID 87)
- ["SWCX: Switching" on page 98](#) (module ID 115)

For more information about switching and switch ports, see the *Switching* chapter in the *Software Reference*.

Type: REST Restart

An LED error has been detected

Message An LED error has been detected, please power-cycle the device. If this message appears again, contact your technical support representative for help.

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 6/URGENT | 102/SWK | 001/REST | 004/FAIL |

Explanation During startup the device performs a self-test to confirm that the port LEDs are operating correctly. If this test fails, the device will automatically attempt to recover from the error. If the device is unable to recover from the error, this log message is generated.

Recommended Action Power cycle the device and check the device log. If this message appears again after the power cycle, contact your authorised Allied Telesis distributor or reseller.

Switch initialisation sequence count

Message Switch initialisation sequence count <number>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 102/SWK | 001/REST | 001/NORM |

Explanation An problem with the operation of LEDs was detected during startup and was successfully corrected. The message shows the number of attempts required to correct the problem.

Recommended Action No action is required. The message can safely be ignored.

Type: INTERR

Internal Errors

Packet discarded owing to hardware read failure

Message Packet discarded owing to hardware read failure

| Severity | Module | Type | Subtype |
|----------|---------|------------|-----------|
| 3/INFO | 102/SWK | 024/INTERR | 003/BDATT |

Explanation An error occurred while trying to read the ARL table inside the switch. This may be due to heavy load on the device or a lookup failure inside the switch due to the ARL being full.

Recommended Action Reboot the device if the error persists.

Module: SWCX

Switching

This chapter contains messages belonging to the module SWCX, sorted into the following Types:

- [“SWI: Switching” on page 99](#)

This module is one of several that are concerned with switching functionality on various products. The other switching modules are:

- [“SWIT, SWTH: Switching” on page 89](#) (module ID 32)
- [“SWIT: Switching” on page 91](#) (module ID 87)
- [“SWK: Switching” on page 95](#) (module ID 102)

For more information about switching and switch ports, see the *Switching* chapter in the *Software Reference*.

Type: SWI Switching

Soft reset on Port

Message Soft reset on Port *<port-number>*

| Severity | Module | Type | Subtype |
|----------|----------|---------|-------------|
| 003/INFO | 115/SWCx | 066/SWI | 006/SILICON |

Explanation A soft reset was performed on the specified port.

Recommended Action No action is required.

Module: **SYS**

System

This chapter contains messages belonging to the module SYS, sorted into the following Types:

- ["REST: Restart" on page 101](#)
- ["EXCEP: Exceptions" on page 104](#)
- ["LIC: Licencing" on page 105](#)
- ["MSG: General Messages" on page 106](#)
- ["CONFIG: Configuration" on page 107](#)
- ["SYSINFO: System Status and Alarms" on page 109](#)

For more information about the system, see the *Configuring and Monitoring the System* chapter in the *Software Reference*.

For more information about release and feature licences, see the *Managing Configuration Files and Software Versions* chapter in the *Software Reference*.

For more information about security mode, see the *User Authentication* chapter in the *Software Reference*.

Type: REST Restart

BBR battery voltage low

Message BBR battery voltage low

| Severity | Module | Type | Subtype |
|------------|-----------|----------|----------|
| 7/CRITICAL | 34/SYSTEM | 001/REST | 004/FAIL |

Explanation BBR voltage has been measured at reboot and found to be low. This is a potentially serious hardware failing.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

EPROM code download retried

Message EPROM code download retried

| Severity | Module | Type | Subtype |
|------------|--------|----------|----------|
| 7/CRITICAL | 34/SYS | 001/REST | 004/FAIL |

Explanation When the device was rebooting the downloading of code from the EPROM had to be retried.

Recommended Action Contact your authorised Allied Telesis distributor or reseller. However, in an isolated case this is probably not an issue.

EPROM vector download retried

Message EPROM vector download retried

| Severity | Module | Type | Subtype |
|------------|--------|----------|----------|
| 7/CRITICAL | 34/SYS | 001/REST | 004/FAIL |

Explanation When the device was rebooting the downloading of interrupt vectors from the EPROM had to be retried.

Recommended Action Contact your authorised Allied Telesis distributor or reseller. However, in an isolated case this is probably not an issue.

NVS corrupt

Message NVS corrupt, was re-initialised

| Severity | Module | Type | Subtype |
|-------------|--------|----------|----------|
| 5/IMPORTANT | 34/SYS | 001/REST | 002/WARN |

Explanation The BBR was found to be corrupt and was reinitialised. This is a potentially serious issue.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Router startup

Message Router startup, ver <version-number>-00, <version-date>, Clock Log: <time> on <date>

| Severity | Module | Type | Subtype |
|------------|--------|----------|-----------|
| 7/CRITICAL | 34/SYS | 001/REST | 001/NORM |
| | | | 003/CRASH |

Explanation The device has just rebooted.

Recommended Action Verify that the device restart was not the result of unexpected behaviour. Contact your authorised Allied Telesis distributor or reseller if behaviour is unexpected.

RTC corrupt

Message RTC corrupt

| Severity | Module | Type | Subtype |
|------------|--------|----------|----------|
| 7/CRITICAL | 34/SYS | 001/REST | 004/FAIL |

Explanation The real time clock was corrupt on reboot.

Recommended Action Set the real time clock correctly. Contact your authorised Allied Telesis distributor or reseller if the message repeats on the next reboot, or if the real time clock is subsequently found to have the incorrect time.

RTC not set

Message RTC not set

| Severity | Module | Type | Subtype |
|------------|--------|----------|----------|
| 7/CRITICAL | 34/SYS | 001/REST | 004/FAIL |

Explanation The real time clock did not set on reboot.

Recommended Action Set the real time clock correctly. Contact your authorised Allied Telesis distributor or reseller if the message repeats on the next reboot, or if the real time clock is subsequently found to have the incorrect time.

Unexpected exception occurred, but no entry in exception list

Message Unexpected exception occurred, but no entry in exception list

| Severity | Module | Type | Subtype |
|------------|--------|----------|----------|
| 7/CRITICAL | 34/SYS | 001/REST | 004/FAIL |

Explanation The device rebooted as the result of an unexpected exception, but there was no entry in the unexpected exception list.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Unexpected exception occurred, entry has bad checksum

Message Unexpected exception occurred, entry has bad checksum

| Severity | Module | Type | Subtype |
|------------|--------|----------|----------|
| 7/CRITICAL | 34/SYS | 001/REST | 004/FAIL |

Explanation The device rebooted as the result of an unexpected exception, and the entry in the unexpected exception list was corrupt.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Type: EXCEP Exceptions

Unexpected Exception

Message Unexpected Exception $\langle offset \rangle / \langle unexpected-exception-description \rangle$ Address $\langle address \rangle$

| Severity | Module | Type | Subtype |
|------------|--------|-----------|-----------|
| 7/CRITICAL | 34/SYS | 008/EXCEP | 000/RESET |
| | | | 001/EXTNO |
| | | | 002/EXTNC |
| | | | 003/TNORM |
| | | | 004/THIGH |
| | | | 005/TREND |
| | | | 008/BUS |
| | | | 012/ADDR |
| | | | 016/INSTR |
| | | | 032/PRIV |
| | | | 040/LINEA |
| | | | 044/LINEF |
| | | | 096/SPUR |
| | | | 128/TRAP0 |
| | | | 132/TRAP1 |
| | | | 136/TRAP2 |
| | | | 140/INP10 |
| | | | 141/INP1C |
| | | | 142/1NP20 |
| | | | 143/INP2C |
| | | | 144/RLY10 |
| | | | 145/RLY1C |
| | | | 146/RLY20 |
| | | | 147/RLY2C |

Explanation The device rebooted as the result of an unexpected exception, the details of which are specified in this message.

Recommended Action Contact your authorised Allied Telesis distributor or reseller and provide them with the output from the command:

```
show debug
```

obtained immediately after the reboot that caused this log message.

Type: LIC Licencing

SYSR SLAVE will not operate correctly

Message SYSR SLAVE will not operate correctly as Master
Missing RELEASE licence

| Severity | Module | Type | Subtype |
|-------------|-----------|---------|---------|
| 5/IMPORTANT | 34/SYSTEM | 010/LIC | 001/REL |

Explanation The slave controller card is missing a release licence for the release that is currently running on the master controller card. This would cause it to fail to operate the current release on the master controller card.

Recommended Action The proper release licence should be created for the slave controller card.

SYSR SLAVE release licence mismatch

Message SYSR SLAVE release licence mismatch

| Severity | Module | Type | Subtype |
|-------------|-----------|---------|---------|
| 5/IMPORTANT | 34/SYSTEM | 010/LIC | 001/REL |

Explanation The slave controller card has a different release licence to that of the master controller card.

Recommended Action The proper release licence should be created for the slave controller card.

SYSR SLAVE feature licence mismatch

Message SYSR SLAVE feature licence mismatch

| Severity | Module | Type | Subtype |
|-------------|-----------|---------|---------|
| 5/IMPORTANT | 34/SYSTEM | 038/LIC | 002/MIS |

Explanation The slave controller card is missing a feature licence that is installed on the master controller card.

Recommended Action The proper feature licence should be created for the slave controller card.

Type: MSG

General Messages

Security Mode enabled

Message Security Mode enabled

| Severity | Module | Type | Subtype |
|----------|-----------|---------|----------|
| 3/INFO | 34/SYSTEM | 021/MSG | 001/INFO |

Explanation System security mode has been enabled because a user has entered the ENABLE SYSTEM SECURITY_MODE command.

Recommended Action No action is required.

Security Mode disabled

Message Security Mode disabled

| Severity | Module | Type | Subtype |
|----------|-----------|---------|----------|
| 3/INFO | 34/SYSTEM | 021/MSG | 001/INFO |

Explanation System security mode has been disabled because a user has entered the DISABLE SYSTEM SECURITY_MODE command.

Recommended Action No action is required.

Type: CONFIG Configuration

Deleted board

Message Deleted board *<board-name>* serial number
<board-serial-number>

| Severity | Module | Type | Subtype |
|----------|-----------|------------|--------------|
| 6/URGENT | 34/SYSTEM | 022/CONFIG | 007/SWDELETE |

Explanation This message confirms that software support for a board has been deleted. This happens when the board has been hot-swapped out and a different type of board is hot-swapped in its place.

Recommended Action No action is required.

Hot-swapped out board

Message Hot-swapped out board *<board-name>* serial number
<board-serial-number>

| Severity | Module | Type | Subtype |
|----------|-----------|------------|-----------|
| 6/URGENT | 34/SYSTEM | 022/CONFIG | 006/SWOUT |

Explanation This message confirms that a board has been hot-swapped out.

Recommended Action No action is required.

Hot-swapped in board

Message Hot-swapped in board *<board-name>* serial number
<board-serial-number>

| Severity | Module | Type | Subtype |
|----------|-----------|------------|----------|
| 6/URGENT | 34/SYSTEM | 022/CONFIG | 005/SWIN |

Explanation This message confirms that a board has been hot-swapped in.

Recommended Action No action is required.

Hot-inserted board

Message Hot-inserted board <*board-name*> serial number
<*board-serial-number*>

| Severity | Module | Type | Subtype |
|----------|-----------|------------|--------------|
| 6/URGENT | 34/SYSTEM | 022/CONFIG | 004/SWINSERT |

Explanation This message confirms that a board has been hot-inserted, i.e. hot-swapped into a previously empty slot or in place of a different type of board.

Recommended Action No action is required.

Type: **SYSINFO**

System Status and Alarms

Accelerator card fan status

Message Accelerator card fan status is good

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 4/NOTICE | 34/SYSTEM | 051/SYSINFO | 002/FAN |

Explanation The accelerator fan is functioning correctly.

Recommended Action No action is required.

Message Accelerator card fan status is not good

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 6/URGENT | 34/SYSTEM | 051/SYSINFO | 002/FAN |

Explanation The accelerator fan is faulty.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

corTempMessages

Message [Temperature below fixed threshold on master card]

[Temperature below fixed threshold on slave card]

| Severity | Module | Type | Subtype |
|------------|-----------|-------------|---------|
| 7/CRITICAL | 34/SYSTEM | 051/SYSINFO | 001/PS |

[Temperature exceed fixed threshold on master card]

[Temperature exceed fixed threshold on slave card]

| Severity | Module | Type | Subtype |
|------------|-----------|-------------|---------|
| 7/CRITICAL | 34/SYSTEM | 051/SYSINFO | 002/FAN |

[Temperature below settable threshold on master card]

[Temperature below settable threshold on slave card]

| Severity | Module | Type | Subtype |
|-------------|-----------|-------------|----------|
| 5/IMPORTANT | 34/SYSTEM | 051/SYSINFO | 003/TEMP |

[Temperature exceed settable threshold on master card]

[Temperature exceed settable threshold on slave card]

| Severity | Module | Type | Subtype |
|-------------|-----------|-------------|-----------|
| 5/IMPORTANT | 34/SYSTEM | 051/SYSINFO | 004/ALARM |

[Temperature settable threshold undefined]

| Severity | Module | Type | Subtype |
|-------------|-----------|-------------|---------|
| 5/IMPORTANT | 34/SYSTEM | 051/SYSINFO | 005 |

Explanation These messages are output when the temperature crosses (in either direction) one of the temperature thresholds; either the fixed threshold or the settable threshold. The message can be output to reference either of the control cards in a SwitchBlade.

Recommended Action A log message stating that a temperature threshold has been exceeded can potentially indicate a serious problem.

In the case of a settable threshold, the value of the threshold should be checked to verify that it has not been set so low that exceeding it does not represent a danger. If the threshold has been exceeded, and represents true overheating, the unit and its environment should be checked - fans must be running and air conditioning in the room must be working adequately.

If there is no discernable cause for the overheating that can be fixed the unit may have to be turned off to avoid damage to the unit or potential danger.

If the log message refers to the temperature going below the threshold, there is less cause for immediate concern, as the concern should have been raised when the temperature went over the threshold. The temperature below message could be the result of having taken remedial action for a previous temperature exceeded message.

Message [Temperature below fixed threshold]

[Temperature exceed fixed threshold]

| Severity | Module | Type | Subtype |
|------------|-----------|-------------|----------|
| 7/CRITICAL | 34/SYSTEM | 051/SYSINFO | 003/TEMP |

Explanation These messages are output when the temperature crosses (in either direction) the fixed temperature threshold. This message is output on devices with a fixed controller on the motherboard of the device.

Recommended Action A log message stating that a temperature threshold has been exceeded can potentially indicate a serious problem.

If there is no discernable cause for the overheating that can be fixed the unit may have to be turned off to avoid damage to the unit or potential danger.

If the log message refers to the temperature going below the threshold, there is less cause for immediate concern, as the concern should have been raised when the temperature went over the threshold. The temperature below message could be the result of having taken remedial action for a previous temperature exceeded message.

Fan fail on PSU

Message Fan fail on PSU<number> board <board-name> serial number <serial-number>

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 6/URGENT | 34/SYSTEM | 051/SYSINFO | 002/FAN |

Explanation The power supply unit fan has failed.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Fan fail on PSU fan only board

Message Fan fail on PSU<number> fan only board <board-name> serial number <serial-number>

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 6/URGENT | 34/SYSTEM | 051/SYSINFO | 002/FAN |

Explanation The fan of a fan only module (FOM) has failed.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Fan now good on PSU

Message Fan now good on PSU<number> board <board-name> serial number <serial-number>

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 6/URGENT | 34/SYSTEM | 051/SYSINFO | 002/FAN |

Explanation The power supply unit fan is now operating correctly.

Recommended Action No action is required.

Fan now good on PSU fan only board

Message Fan now good on PSU<number> fan only board <board-name> serial number <serial-number>

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 6/URGENT | 34/SYSTEM | 051/SYSINFO | 002/FAN |

Explanation The fan of a fan only module (FOM) is now operating correctly.

Recommended Action No action is required.

Fan tray present status

Message Fan tray present status is unsupported

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 4/NOTICE | 34/SYSTEM | 051/SYSINFO | 002/FAN |

Explanation The device cannot have a fan tray installed.

Recommended Action No action is required.

Message Fan tray present status is good

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 4/NOTICE | 34/SYSTEM | 051/SYSINFO | 002/FAN |

Explanation The fan tray is present.

Recommended Action No action is required.

Message Fan tray present status is not good

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 6/URGENT | 34/SYSTEM | 051/SYSINFO | 002/FAN |

Explanation The fan tray is not present.

Recommended Action Replace the fan tray.

Fan tray status

Message Fan tray status is unsupported

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 4/NOTICE | 34/SYSTEM | 051/SYSINFO | 002/FAN |

Explanation The device does not have a fan tray.

Recommended Action No action is required.

Message Fan tray status is good

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 4/NOTICE | 34/SYSTEM | 051/SYSINFO | 002/FAN |

Explanation The fan tray is functioning correctly.

Recommended Action No action is required.

Message Fan tray status is not good

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 6/URGENT | 34/SYSTEM | 051/SYSINFO | 002/FAN |

Explanation The fan tray is faulty.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Hot swap error on PSU/FOM

Message Hot swap error on PSU/FOM <number>. (no board information)

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 6/URGENT | 34/SYSTEM | 051/SYSINFO | 014 |

Explanation An error occurred while hot swapping a PSU or FOM. The most likely reason is that the PSU/FOM was swapped in and then immediately swapped out again before the personality information on the PSU/FOM could be read.

Recommended Action No action is required.

Incompatible PSU/FOM unit inserted

Message Incompatible PSU/FOM unit inserted <details>

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 6/URGENT | 34/SYSTEM | 051/SYSINFO | 013 |

Explanation A PSU or FOM has been inserted but is not compatible with this device, for the reason given.

Recommended Action Remove the PSU or FOM and replace it with a compatible model.

Incompatible PSU/FOM unit removed

Message Incompatible PSU/FOM unit removed <details>

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 6/URGENT | 34/SYSTEM | 051/SYSINFO | 014 |

Explanation A PSU or FOM that was not compatible with this device has been removed.

Recommended Action No action is required.

Main fan status

Message Main fan status is good

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 4/NOTICE | 34/SYSTEM | 051/SYSINFO | 002/FAN |

Explanation The main fan is being monitored and is functioning correctly.

Recommended Action No action is required.

Message Main fan status is not good

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 6/URGENT | 34/SYSTEM | 051/SYSINFO | 002/FAN |

Explanation A fault has been detected in the main fan.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Message Main fan status is not monitored

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 6/URGENT | 34/SYSTEM | 051/SYSINFO | 002/FAN |

Explanation The main fan cannot be monitored.

Recommended Action No action is required.

Main PS status

Message Main PS status is good

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 4/NOTICE | 34/SYSTEM | 051/SYSINFO | 001/PS |

Explanation The power supply is functioning correctly.

Recommended Action No action is required.

Message Main PS status is faulty

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 6/URGENT | 34/SYSTEM | 051/SYSINFO | 001/PS |

Explanation The power supply is being monitored and the connection is not functioning. If the power supply has completely failed, this log message can only be sent if a redundant power supply or other back up system is present and functioning.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Power bad on PSU

Message Power bad on PSU<number> board <board-name> serial number <serial-number>

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 6/URGENT | 34/SYSTEM | 051/SYSINFO | 002/FAN |

Explanation The power supply of the power supply unit is faulty.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Power now good on PSU

Message Power now good on PSU<number> board <board-name> serial number <serial-number>

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 6/URGENT | 34/SYSTEM | 051/SYSINFO | 002/FAN |

Explanation The power supply of a power supply unit is now functioning correctly.

Recommended Action No action is required.

PS and fan monitoring status

Message PS and fan monitoring status is good

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|-----------|
| 4/NOTICE | 34/SYSTEM | 051/SYSINFO | 004/ALARM |

Explanation The power supply and fans are being monitored correctly.

Recommended Action No action is required.

Message PS and fan monitoring status is not good

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|-----------|
| 6/URGENT | 34/SYSTEM | 051/SYSINFO | 004/ALARM |

Explanation The power supply and fans are not being monitored correctly.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

PSU incompatible PSU type inserted

Message PSU <identifier> (<type>) incompatible PSU type inserted

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 6/URGENT | 34/SYSTEM | 051/SYSINFO | 013 |

Explanation A PSU of the specified type has been inserted but is not compatible with the other PSU already installed in this device. <identifier> is one of "1", "2", "1 or 2", or "Unknown ID". <type> is one of "AC", "DC", or "Unknown Type".

Recommended Action Remove the PSU or FOM and replace it with a compatible model.

PSU incompatible PSU type removed

Message PSU <identifier> (<type>) incompatible PSU type removed

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 6/URGENT | 34/SYSTEM | 051/SYSINFO | 014 |

Explanation A PSU that was not compatible with the other PSU already installed in this device has been removed. <identifier> is one of "1", "2", "1 or 2", or "Unknown ID". <type> is one of "AC", "DC", or "Unknown Type".

Recommended Action No action is required.

Redundant fan status

Message Redundant fan status is unsupported

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 4/NOTICE | 34/SYSTEM | 051/SYSINFO | 002/FAN |

Explanation The device does not have an Redundant Power Supply (RPS) connection and cannot have an RPS installed.

Recommended Action No action is required.

Message Redundant fan status is good

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 4/NOTICE | 34/SYSTEM | 051/SYSINFO | 002/FAN |

Explanation The Redundant Power Supply (RPS) fan is being monitored and is functioning correctly.

Recommended Action No action is required.

Message Redundant fan status is not good

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 6/URGENT | 34/SYSTEM | 051/SYSINFO | 002/FAN |

Explanation The redundant fan is being monitored and the Redundant Power Supply (RPS) unit is not connected or the RPS is connected but the fan is faulty.

Recommended Action Check that the RPS is connected, and check the connection for faults. If necessary, contact your authorised Allied Telesis distributor or reseller.

Message Redundant fan status is not monitored

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 4/NOTICE | 34/SYSTEM | 051/SYSINFO | 002/FAN |

Explanation The Redundant Power Supply (RPS) fan status is not being monitored.

Recommended Action No action is required.

Redundant PS connection

Message Redundant PS connection is unsupported

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 4/NOTICE | 34/SYSTEM | 051/SYSINFO | 001/PS |

Explanation The device does not have a Redundant Power Supply (RPS) connection, and cannot have a RPS installed.

Recommended Action No action is required.

Message Redundant PS connection is good

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 4/NOTICE | 34/SYSTEM | 051/SYSINFO | 001/PS |

Explanation The Redundant Power Supply (RPS) is being monitored, is connected, and is functioning correctly.

Recommended Action No action is required.

Message Redundant PS connection is not good

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 4/NOTICE | 34/SYSTEM | 051/SYSINFO | 001/PS |

Explanation The Redundant Power Supply (RPS) is being monitored and is either not connected, or it is connected but is not functioning well.

Recommended Action Check RPS is connected, and check the connection for faults.

Message Redundant PS connection is not monitored

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 4/NOTICE | 34/SYSTEM | 051/SYSINFO | 001/PS |

Explanation The device has a connection to which an Redundant Power Supply (RPS) can be connected, but the connection is not being monitored.

Recommended Action To enable RPS monitoring, use the command:

```
set system rpsmonitor = on
```

Redundant PS status

Message Redundant PS status is good

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 4/NOTICE | 34/SYSTEM | 051/SYSINFO | 001/PS |

Explanation The Redundant Power Supply (RPS) is being monitored, is connected, and is functioning correctly.

Recommended Action No action is required.

Message Redundant PS status is not good

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 6/URGENT | 34/SYSTEM | 051/SYSINFO | 001/PS |

Explanation The Redundant Power Supply (RPS) unit is not functioning or not present.

Recommended Action Install the RPS. Contact your authorised Allied Telesis distributor or reseller.

Message Redundant PS status is unsupported

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 4/NOTICE | 34/SYSTEM | 051/SYSINFO | 001/PS |

Explanation The device does not have an Redundant Power Supply (RPS) connection, and cannot have an RPS installed.

Recommended Action No action is required.

Temperature now good on PSU

Message Temperature now good on PSU<number> board <board-name>
serial number <serial-number>

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 6/URGENT | 34/SYSTEM | 051/SYSINFO | 002/FAN |

Explanation The operating temperature of the power supply unit is now within the fixed threshold.

Recommended Action No action is required.

Temperature too high on PSU

Message Temperature too high on PSU<number> board <board-name>
serial number <serial-number>

| Severity | Module | Type | Subtype |
|----------|-----------|-------------|---------|
| 6/URGENT | 34/SYSTEM | 051/SYSINFO | 002/FAN |

Explanation The operating temperature of the power supply unit is over the fixed threshold.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Module: CH

Command Handler

This chapter contains messages belonging to the module CH, sorted into the following Types:

- ["CMD: Command Processing" on page 125](#)

For more information about using the Command Handler, see the *Using the Command Line Interface (CLI)* chapter in the *Software Reference*.

Type: CMD

Command Processing

command entered

Message <command-just-entered>

| Severity | Module | Type | Subtype |
|----------|--------|---------|---------|
| 2/DETAIL | 35/CH | 020/CMD | 001/MGR |

| Severity | Module | Type | Subtype |
|----------|--------|---------|----------|
| 1/TRIVAL | 35/CH | 020/CMD | 002/USER |

Explanation This log message logs all commands entered via a console to the device.

Recommended Action No action is required.

Type: MSG

General Messages

message logged

Message <message-being-logged>

| Severity | Module | Type | Subtype |
|----------|--------|---------|-----------|
| 2/DETAIL | 35/CH | 021/MSG | 001/INFO |
| Severity | Module | Type | Subtype |
| 3/INFO | 35/CH | 021/MSG | 002/WARN |
| Severity | Module | Type | Subtype |
| 4/NOTICE | 35/CH | 021/MSG | 003/ERROR |

Explanation Every command handler output message generated via the message utility is logged.

Recommended Action This is an audit trail of messages output as a result of commands. For maximum usefulness also log the commands.

Module: ICC, ISDNCC

ISDN Call Control

This chapter contains messages belonging to the module ICC, sorted into the following Types:

- ["Call Control" on page 128](#)

For more information about ISDN Call Control, see the *Integrated Services Digital Network (ISDN)* chapter in the *Software Reference*.

Type: CALL

Call Control

ISDN call active, channel known

Message ISDN call ACTIVE, direction *<in>*, channel *<B-channel-number>*
 ISDN call ACTIVE, direction *<out>*, channel *<B-channel-number>*

| Severity | Module | Type | Subtype |
|----------|--------|----------|---------|
| 3/INFO | 37/ICC | 003/CALL | 001/UP |

Explanation An ISDN call has come up, either in the incoming or outgoing direction, and the channel is known and given in the LOG message.

Recommended Action Typically, no action is required. The call is up, which is typically normal behaviour. However, it could be that you have not expected this call to have come up. In that case, the activation of this call could have been due to unexpected traffic, or a misconfiguration of the higher-layer protocol running over the ISDN call. If so, the unexpected cause needs to be investigated.

ISDN call active, channel unknown

Message ISDN call ACTIVE, direction *<in>*, channel unknown
 ISDN call ACTIVE, direction *<out>*, channel unknown

| Severity | Module | Type | Subtype |
|----------|--------|----------|---------|
| 3/INFO | 37/ICC | 003/CALL | 001/UP |

Explanation An ISDN call has come up, either in the incoming or outgoing direction, and the channel is unknown.

Recommended Action Typically, no action is required. The call is up, which is typically normal behaviour. However, it could be that you have not expected this call to have come up. In that case, the activation of this call could have been due to unexpected traffic, or a misconfiguration of the higher-layer protocol running over the ISDN call. If so, the unexpected cause needs to be investigated.

ISDN call cleared. Cause information

Message ISDN call CLEARED. Cause *<cause-location>* *<cause-type>*,
diagnostic *<diagnostic-information>*

| Severity | Module | Type | Subtype |
|-------------|--------|----------|-----------|
| 5/IMPORTANT | 37/ICC | 003/CALL | 004/ERROR |

Explanation An ISDN call has gone down, probably as the result of an error, with cause information.

Recommended Action If the call is not normal call clearing (16) then this message could indicate some problem with the setup or the network itself. Consult ISDN troubleshooting guides if you have them, or contact your authorised Allied Telesis distributor or reseller for assistance. In addition, Q.931 debugging could help if the problem is reproducible.

ISDN call cleared. No cause information

Message ISDN call CLEARED. No cause information

| Severity | Module | Type | Subtype |
|-------------|--------|----------|-----------|
| 5/IMPORTANT | 37/ICC | 003/CALL | 004/ERROR |

Explanation An ISDN call has gone down, probably as the result of an error, with no cause information. No cause information usually indicates a problem trying to bring up a call, or that this device is not accepting incoming calls.

Recommended Action Check the ISDN configuration and try Q.931 debugging. Contact your authorised Allied Telesis distributor or reseller if you require further assistance.

ISDN call over

Message ISDN call OVER. Started *<date>*, *<time>*. Duration
<duration-of-call>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 37/ICC | 003/CALL | 002/DOWN |

Explanation An ISDN call has gone down and the time of activation and duration are specified.

Recommended Action Typically, no action is required. The call has closed, which is typically normal behaviour. However, it could be that you have not expected this call to have closed. In that case, the closing of this call could have been due to an unexpected drop in traffic, or a misconfiguration of the higher-layer protocol running over the ISDN call. If so, the unexpected cause needs to be investigated.

Module: BRI

ISDN Basic Rate Interfaces

This chapter contains messages belonging to the module BRI, sorted into the following Types:

- [“PINT: Physical Layer Interfaces” on page 131](#)

For more information about BRI, see the *Integrated Services Digital Network (ISDN)* chapter in the *Software Reference*.

Type: PINT

Physical Layer Interfaces

bri: interface has activated

Message `bri <bri-interface-instance>: Interface has activated`

| Severity | Module | Type | Subtype |
|----------|--------|----------|---------|
| 6/URGENT | /BRI | 002/PINT | 001/UP |

Explanation The BRI interface has entered the activated state. It is now able to transmit and receive data frames.

Recommended Action No action is required.

bri: interface has deactivated

Message `bri <bri-interface-instance>: Interface has deactivated`

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 6/URGENT | /BRI | 002/PINT | 002/DOWN |

Explanation The BRI interface has left the activated state. It is no longer able to transmit and receive data frames. Most likely the interface cable has been disconnected, or there is a fault in the ISDN, or there is a fault with the BRI interface hardware.

Recommended Action Contact your ISDN service provider, or your authorised Allied Telesis distributor or reseller for assistance.

Module: PRI

ISDN Primary Rate Interfaces

This chapter contains messages belonging to the module PRI, sorted into the following Types:

- [“Physical Layer Interfaces” on page 133](#)

For more information about PRI, see the *Integrated Services Digital Network (ISDN)* chapter in the *Software Reference*.

Type: PINT

Physical Layer Interfaces

pri: interface is no longer receiving incoming signal

Message pri<*interface-instance*>: Interface is no longer receiving incoming signal

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 6/URGENT | 42/PRI | 002/PINT | 002/DOWN |

Explanation The PRI interface is no longer receiving any signal at all from the link partner. This may mean that the link is broken or subject to extreme attenuation.

Recommended Action Contact your telecommunications service provider or your authorised Allied Telesis distributor or reseller.

pri: interface has lost synchronisation with incoming signal

Message pri<*interface-instance*>: Interface has lost synchronisation with incoming signal

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 6/URGENT | 42/PRI | 002/PINT | 002/DOWN |

Explanation The PRI interface is unable to detect valid framing in the received signal. The quality of the communications link in the direction towards the PRI interface has deteriorated to the extent that the PRI interface is unable to successfully extract the framing from the received signal. This usually means that the received signal is suffering too much attenuation or noise.

Recommended Action Contact your telecommunications service provider or your authorised Allied Telesis distributor or reseller.

pri: interface is now operational

Message pri<interface-instance>: Interface is now operational

| Severity | Module | Type | Subtype |
|----------|--------|----------|---------|
| 6/URGENT | 42/PRI | 002/PINT | 001/UP |

Explanation The PRI interface has entered the operational state. It is now able to transmit and receive data frames.

Recommended Action No action is required.

pri: interface is receiving RAI and continuous CRC error reports

Message pri<interface-instance>: Interface is receiving RAI and continuous CRC error reports from network

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 6/URGENT | 42/PRI | 002/PINT | 002/DOWN |

Explanation The PRI interface is receiving a Remote Alarm Indication and continuous CRC error indications from the link partner. The link partner is not receiving a valid signal from the PRI interface (E1 mode only). This probably means that there is something wrong with the link in the direction from this interface towards the link partner, or perhaps with the equipment at either end.

Recommended Action Contact your telecommunications service provider or your authorised Allied Telesis distributor or reseller.

pri: interface reset

Message pri<interface-instance>: interface reset

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 6/URGENT | 42/PRI | 002/PINT | 003/WARN |

Explanation The PRI interface has been reset by command or automatically by the software. PRI interfaces may be reset by command in an attempt to clear an error situation. Normally a PRI interface reset is never required. Under some circumstances the software may automatically reset the interface to clear an error condition. There are error counters to indicate why the interface has been reset.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

pri: loopback type loopback status

Message pri<interface-instance>: <loopback-type> loopback <status>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 6/URGENT | 42/PRI | 002/PINT | 003/WARN |

Explanation A line or payload loopback test of the PRI interface has been activated or deactivated. Loopbacks can be activated and deactivated by command or remotely by the telecommunications service provider. A loopback will disrupt normal operation of the communications link.

Recommended Action If a loopback has not been locally activated and is not expected to be activated remotely then contact the telecommunications service provider for assistance.

pri: receiving Alarm Indication Signal, network fault or loopback

Message pri<interface-instance>: Receiving Alarm Indication Signal, network fault or loopback

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 6/URGENT | 42/PRI | 002/PINT | 002/DOWN |

Explanation The PRI interface is receiving an Alarm Indication Signal (AIS) from the link partner. The link partner, which may be a repeater, transmits AIS when it has no valid signal to transmit in the direction towards the PRI interface. This usually means that there is a problem somewhere upstream in the network.

Recommended Action Contact your telecommunications service provider or your authorised Allied Telesis distributor or reseller.

pri: receiving Remote Alarm Indication, remote end has lost signal

Message pri<interface-instance>: Receiving Remote Alarm Indication, remote end has lost signal

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 6/URGENT | 42/PRI | 002/PINT | 002/DOWN |

Explanation The PRI interface is receiving a Remote Alarm Indication from the link partner as the link partner is not receiving a valid signal from the PRI interface. This probably means that there is something wrong with the link in the direction from this interface towards the link partner, or perhaps with the equipment at either end.

Recommended Action Contact your telecommunications service provider or your authorised Allied Telesis distributor or reseller.

Module: USER

User Authentication

This chapter contains messages belonging to the module USER, sorted into the following Types:

- ["AUTH: Authentication" on page 137](#)
- ["USER: User Authentication Facility" on page 138](#)
- ["RSO: Remote Security Officer" on page 139](#)

For more information about authenticating device users, see the *User Authentication* chapter in the *Software Reference*.

Type: AUTH Authentication

RADIUS server not responding to requests

Message RADIUS server <*ip-address*> not responding to requests

| Severity | Module | Type | Subtype |
|----------|---------|----------|-----------|
| 4/NOTICE | 45/USER | 011/AUTH | 003/RFAIL |

Explanation A RADIUS server has not responded to repeated requests from this device.

Recommended Action Check the connectivity and status of the RADIUS server.

Type: **USER**

User Authentication Facility

Security command logoff

Message Security command logoff for <user-name> on
<port-number-or-TTY-number>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 45/USER | 019/USER | 002/LOFF |

Explanation A user with the specified user name has just logged off the specified TTY or asynchronous port.

Recommended Action No action is required.

Type: RSO

Remote Security Officer

Remote Security Officer access accepted from user

Message Remote Security Officer access accepted from user
<user-name> at <ip-address>

Remote Security Officer access accepted from user
<user-name> at <ipv6-address>

| Severity | Module | Type | Subtype |
|----------|---------|---------|----------|
| 3/INFO | 45/USER | 029/RSO | 005/ACPT |

Explanation A Remote Security Officer (RSO) has succeeded in logging in from the specified IPv4 or IPv6 address.

Recommended Action No action is required. This message is useful as an audit trail for this security command. Store and review these messages regularly.

Remote Security Officer access rejected from user

Message Remote Security Officer access rejected from user
<user-name> at <ip-address>

Remote Security Officer access rejected from user
<user-name> at <ipv6-address>

| Severity | Module | Type | Subtype |
|----------|---------|---------|----------|
| 3/INFO | 45/USER | 029/RSO | 006/RJCT |

Explanation An attempt to log in from the specified IPv4 or IPv6 address using a Security Officer user name has failed because the IP address does not match a configured Remote Security Officer (RSO) address range.

Recommended Action This is part of the audit trail for this security command, but represents an attempt to log in from an unauthorised location. The IP address should be tracked and the login attempt investigated.

Remote Security Officer added by user

Message Remote Security Officer <ip-address>/<mask> added by user <user-name>

Remote Security Officer <ip-address>/<ip-address> added by user <user-name>

Remote Security Officer <ipv6-address>/<prefix> added by user <user-name>

Remote Security Officer <ipv6-address>/<ipv6-address> added by user <user-name>

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 3/INFO | 45/USER | 029/RSO | 001/ADD |

Explanation An IPv4 or IPv6 address range has been added for Remote Security Officer (RSO) logins.

Recommended Action No action is required. This message is useful as an audit trail for this security command.

Remote Security Officer deleted by user

Message Remote Security Officer <ip-address>/<mask> deleted by user <user-name>

Remote Security Officer <ip-address>/<ip-address> deleted by user <user-name>

Remote Security Officer <ipv6-address>/<prefix> deleted by user <user-name>

Remote Security Officer <ipv6-address>/<ipv6-address> deleted by user <user-name>

| Severity | Module | Type | Subtype |
|----------|---------|---------|------------|
| 3/INFO | 45/USER | 029/RSO | 002/DELETE |

Explanation An IPv4 or IPv6 address range for Remote Security Officer (RSO) logins has been deleted.

Recommended Action No action is required. This message is useful as an audit trail for this security command.

Remote Security Officer option enabled by user

Message Remote Security Officer option enabled by user <user-name>

| Severity | Module | Type | Subtype |
|----------|---------|---------|-----------|
| 3/INFO | 45/USER | 029/RSO | 003/ENBLD |

Explanation The Remote Security Officer (RSO) option is enabled.

Recommended Action No action is required. This message is useful as an audit trail for this security command.

Remote Security Officer option disabled by user

Message Remote Security Officer option disabled by user
<user-name>

| Severity | Module | Type | Subtype |
|----------|---------|---------|-----------|
| 3/INFO | 45/USER | 029/RSO | 004/DSBLD |

Explanation The Remote Security Officer (RSO) option is disabled.

Recommended Action No action is required. This message is useful as an audit trail for this security command.

Module: ACC

Asynchronous Call Control

This chapter contains messages belonging to the module ACC, sorted into the following Types:

- ["PINT: Physical Layer Interfaces" on page 143](#)
- ["ACC: Call Control" on page 144](#)

For more information about ASYN ports, see the *Interfaces* chapter in the *Software Reference*.

For more information about ACC, see the *Asynchronous Call Control* chapter in the *Software Reference*.

Type: PINT

Physical Layer Interfaces

Asyn CD up

Message asyn<port-number> CD up

| Severity | Module | Type | Subtype |
|----------|--------|----------|---------|
| 2/DETAIL | 46/ACC | 002/PINT | 001/UP |

Explanation Indicates that the CD (carrier detect) control line has come up for a port. This can indicate that the modem attached to the port has received a call, or that a terminal has been plugged into the port.

Recommended Action No action is required.

Type: ACC Call Control

Attach request for asyn, which does not belong to an ACC call

Message Attach request for asyn<port-number>, which does not belong to an ACC call

| Severity | Module | Type | Subtype |
|-------------|--------|---------|----------|
| 5/IMPORTANT | 46/ACC | 016/ACC | 003/port |

Explanation This is related to the message **attach request for asyn<port-number>, which is not a valid asyn** below. The port is valid, but does not belong to an ACC call.

Recommended Action Check the PPP and ACC configurations. To display a list of each PPP interface, users of the interface, physical interfaces that the interface is running over, and the current state of the interface, use the command:

```
show ppp
```

For a snapshot of the state of the device, capture the output of the command

```
show debug
```

Contact your authorised Allied Telesis distributor or reseller if you require further assistance.

Attach request for asyn, which is not a valid asyn

Message Attach request for asyn<port-number>, which is not a valid asyn

| Severity | Module | Type | Subtype |
|-------------|--------|---------|----------|
| 5/IMPORTANT | 46/ACC | 016/ACC | 003/port |

Explanation This is related to the message **call <callname>, not found** below. The interface is dynamic and there is no call name involved. However, PPP does have a port number to which it is trying to attach and this port is not valid.

Recommended Action Check the PPP and ACC configurations. To display a list of each PPP interface, users of the interface, physical interfaces that the interface is running over, and the current state of the interface, use the command:

```
show ppp
```

For a snapshot of the state of the device, capture the output of the command:

```
show debug
```

Contact your authorised Allied Telesis distributor or reseller if you require further assistance.

Call active

Message Call ACTIVE, direction <direction>, asyn<number>

| Severity | Module | Type | Subtype |
|-------------|--------|----------|---------|
| 5/IMPORTANT | 46/ACC | 003/CALL | 001/UP |

Explanation An ACC call has come up, either in the incoming or outgoing direction, on the port specified.

Recommended Action Typically, no action is required. The call is up, which is typically normal behaviour. However, it could be that you have not expected this call to have come up. In that case, the activation of this call could have been due to unexpected traffic, or a misconfiguration of the higher-layer protocol running over the ACC call. If so, the unexpected cause needs to be investigated.

Call exists, there are currently no free asyns

Message Call <callname>, there are currently no free asyns

| Severity | Module | Type | Subtype |
|-------------|--------|---------|----------|
| 5/IMPORTANT | 46/ACC | 016/ACC | 002/CALL |

Explanation This message is related to the message **call <callname>, not found** below. The call exists but there are no free ports for the call.

Recommended Action Check the PPP and ACC configurations. To display a list of each PPP interface, users of the interface, physical interfaces that the interface is running over, and the current state of the interface, use the command:

```
show ppp
```

For a snapshot of the state of the device, capture the output of the command:

```
show debug
```

Contact your authorised Allied Telesis distributor or reseller if you require further assistance.

Call not found

Message Call <callname>, not found

| Severity | Module | Type | Subtype |
|-------------|--------|---------|----------|
| 5/IMPORTANT | 46/ACC | 016/ACC | 002/CALL |

Explanation A dynamic interface has come up and PPP is trying to add it to a bundle, but the reattachment fails because the call name is not found. However, this path is only executed if the interface is not dynamic, which indicates that it is unlikely to happen.

Recommended Action Check the PPP and ACC configurations. To display a list of each PPP interface, users of the interface, physical interfaces that the interface is running over, and the current state of the interface, use the command:

```
show ppp
```

For a snapshot of the state of the device, capture the output of the command:

```
show debug
```

Contact your authorised Allied Telesis distributor or reseller if you require further assistance.

Module: INST

Installation

This chapter contains messages belonging to the module INST, sorted into the following Types:

- ["FEATURE: Feature Licencing" on page 148](#)

For more information about release and feature licences, see the *Managing Configuration Files and Software Versions* chapter in the *Software Reference*.

Type: FEATURE

Feature Licencing

Feature has been disabled, No valid Licence exists

Message <name> feature has been disabled, No valid Licence exists

| Severity | Module | Type | Subtype |
|----------|---------|-------------|---------|
| 4/NOTICE | 49/INST | 038/FEATURE | 001/EXP |

Explanation This message is output when a feature licence is removed from the feature licence table. A feature that used to have a licence no longer has a valid licence.

Recommended Action If a licence that should have been there has been removed, either re-enter the licence if you have the licence details on record, or contact your authorised Allied Telesis distributor or reseller.

Module: OSPF

Open Shortest Path First

This chapter contains messages belonging to the module OSPF, sorted into the following Types:

- [“OSPF: Open Shortest Path First” on page 150](#)

For more information about OSPF, see the *Open Shortest Path First (OSPF)* chapter in the *Software Reference*.

Type: OSPF

Open Shortest Path First

Backup designated router change

Message Backup designated router change: network
<network-address>, <old-bdr-ip-address> ->
<new-bdr-ip-address>

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 3/INFO | 50/OSPF | 68/OSPF | 027 |

Explanation The backup designated router on the given network has changed.

Recommended Action No action is required. This is routine, but this message indicates further investigation may be required.

Database description pkt reject MTU

Message Database Description pkt reject: neighbour: <nbr-address>,
MTU: <nbr-state>

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 4/NOTICE | 50/OSPF | 68/OSPF | 030 |

Explanation An OSPF database description packet was received, but the MTU field in the packet does not match the MTU of the interface on which the packet was received.

Recommended Action Ignore a single instance of this message. If there are many occurrences of this message, check the OSPF configuration. If the error cannot be found and fixed, contact your authorised Allied Telesis distributor or reseller for assistance.

Database description pkt reject state

Message Database Description pkt reject: neighbour: *<nbr-address>*, state: *<nbr-state>*

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 4/NOTICE | 50/OSPF | 68/OSPF | 014 |

Explanation An OSPF database description packet was received, but the neighbour that sent the packet is in the wrong state for this device to process the packet.

Recommended Action Ignore a single instance of this message. If there are many occurrences of this message, check the OSPF configuration. If the error cannot be found and fixed, contact your authorised Allied Telesis distributor or reseller for assistance.

Database description pkt retransmitted

Message Database Description pkt retransmitted: nbr: *<nbr-address>*

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 4/NOTICE | 50/OSPF | 68/OSPF | 018 |

Explanation A database description packet was retransmitted to a neighbour.

Recommended Action No action is required. This is routine, but this message indicates further investigation may be required.

Designated router change

Message Designated router change: network *<network-address>*, *<old-dr-ip-address>* -> *<new-dr-ip-address>*

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 3/INFO | 50/OSPF | 68/OSPF | 026 |

Explanation The designated router on the given network has changed.

Recommended Action No action is required. This is routine, but this message indicates further investigation may be required.

Hello pkt mismatch

Message Hello pkt mismatch: interface: *<interface>*, from: *<src-ip-address>*, parameters: *<mismatched-parameters>*

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 6/URGENT | 50/OSPF | 68/OSPF | 013 |

Explanation A Hello packet was received whose parameters do not exactly match the parameters configured for this interface. This message is currently output in two places, the first when the network mask is checked, the second when other parameters are checked.

Recommended Action Ignore a single instance of this message. If there are many occurrences of this message, check the OSPF configuration. If the error cannot be found and fixed, contact your authorised Allied Telesis distributor or reseller for assistance.

Incorrect checksum on LSA

Message Incorrect checksum on *<lsa-type>* LSA *<lsa-id>*: router ID: *<router-id>*, neighbour: *<nbr-address>*

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 4/NOTICE | 50/OSPF | 68/OSPF | 019 |

Explanation A link state advertisement (LSA) was received with an incorrect checksum.

Recommended Action Ignore a single instance of this message. If there are many occurrences of this message, check the OSPF configuration. If the error cannot be found and fixed, contact your authorised Allied Telesis distributor or reseller for assistance.

Link state ack pkt reject

Message Link State Ack pkt reject: neighbour: *<nbr-address>*, state: *<nbr-state>*

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 4/NOTICE | 50/OSPF | 68/OSPF | 017 |

Explanation An OSPF link state acknowledgment packet was received, but the neighbour that sent the packet is in the wrong state for this device to process the packet.

Recommended Action Ignore a single instance of this message. If there are many occurrences of this message, check the OSPF configuration. If the error cannot be found and fixed, contact your authorised Allied Telesis distributor or reseller for assistance.

Link state request pkt reject

Message Link State Request pkt reject: neighbour: <nbr-address>, state: <nbr-state>

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 4/NOTICE | 50/OSPF | 68/OSPF | 016 |

Explanation An OSPF link state request packet was received, but the neighbour that sent the packet is in the wrong state for this device to process the packet.

Recommended Action Ignore a single instance of this message. If there are many occurrences of this message, check the OSPF configuration. If the error cannot be found and fixed, contact your authorised Allied Telesis distributor or reseller for assistance.

Link state update pkt reject

Message Link State Update pkt reject: neighbour: <nbr-address>, state: <nbr-state>

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 4/NOTICE | 50/OSPF | 68/OSPF | 015 |

Explanation An OSPF link state update packet was received, but the neighbour that sent the packet is in the wrong state for this device to process the packet.

Recommended Action Ignore a single instance of this message. If there are many occurrences of this message, check the OSPF configuration. If the error cannot be found and fixed, contact your authorised Allied Telesis distributor or reseller for assistance.

Max age LSA

Message Max age <lsa-type> LSA <lsa-id>: router ID: <router-id>

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 4/NOTICE | 50/OSPF | 68/OSPF | 021 |

Explanation A link state advertisement (LSA) in the LSA database has reached MaxAge (60 minutes).

Recommended Action No action is required. This is routine, but this message indicates further investigation may be required.

Max age LSA flushed

Message Max age *<lsa-type>* LSA *<lsa-id>* flushed: router ID: *<router-id>*

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 4/NOTICE | 50/OSPF | 68/OSPF | 022 |

Explanation A link state advertisement (LSA) has reached MaxAge and has been flushed from the devices nearest neighbours.

Recommended Action No action is required. This is routine, but this message indicates further investigation may be required.

Nbr state change

Message Nbr *<nbr-address>* state change: *<old-nbr-state>* -> *<new-nbr-state>*, event: *<nbr-event>*

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 3/INFO | 50/OSPF | 68/OSPF | 025 |

Explanation The state of an OSPF neighbour has changed.

Recommended Action No action is required.

New instance LSA

Message New instance *<lsa-type>* LSA *<lsa-id>*: router ID: *<router-id>*

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 2/DETAIL | 50/OSPF | 68/OSPF | 028 |

Explanation This device has generated a new instance of a self-originated link state advertisement (LSA).

Recommended Action No action is required.

Older LSA received

Message Older *<lsa-type>* LSA *<lsa-id>* received: router ID: *<router-id>*, seq: *<lsa-ack-seq-number>*, age: *<lsa-age>*, csum: *<lsa-checksum>*

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 4/NOTICE | 50/OSPF | 68/OSPF | 024 |

Explanation An link state advertisement (LSA) was received that is older than the one currently in the LSA database. This is an anomaly in the LSA flooding process, and the older LSA will be ignored.

Recommended Action No action is required. This is routine, but this message indicates further investigation may be required.

Pkt reject: authentication type mismatch

Message Pkt reject: authentication type mismatch: router ID: *<router-id>*, address: *<src-ip-address>* -> *<dest-ip-address>*

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 6/URGENT | 50/OSPF | 68/OSPF | 009 |

Explanation An OSPF packet was received whose authentication type does not match the authentication type configured for the interface on which the packet was received.

Recommended Action Ignore a single instance of this message. If there are many occurrences of this message, check the OSPF configuration. If the error cannot be found and fixed, contact your authorised Allied Telesis distributor or reseller for assistance.

Pkt reject: bad area for virtual link

Message Pkt reject: bad area for virtual link: router ID: *<router-id>*, address: *<src-ip-address>* -> *<dest-ip-address>*

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 6/URGENT | 50/OSPF | 68/OSPF | 006 |

Explanation An OSPF packet was received on a virtual link, but on an interface whose OSPF area is not the transit area for the virtual link.

Recommended Action Ignore a single instance of this message. If there are many occurrences of this message, check the OSPF configuration. If the error cannot be found and fixed, contact your authorised Allied Telesis distributor or reseller for assistance.

Pkt reject: bad OSPF checksum

Message Pkt reject: bad OSPF checksum: address: <src-ip-address> -> <dest-ip-address>

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 6/URGENT | 50/OSPF | 68/OSPF | 004 |

Explanation An OSPF packet was received with a bad checksum.

Recommended Action Ignore a single instance of this message. If there are many occurrences of this message, check the OSPF configuration. If the error cannot be found and fixed, contact your authorised Allied Telesis distributor or reseller for assistance.

Pkt reject: bad OSPF version

Message Pkt reject: bad OSPF version: address: <src-ip-address> -> <dest-ip-address>

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 6/URGENT | 50/OSPF | 68/OSPF | 003 |

Explanation An OSPF packet was received with an OSPF version number in its header that the Allied Telesis implementation of OSPF does not recognise.

Recommended Action Ignore a single instance of this message. If there are many occurrences of this message, check the OSPF configuration. If the error cannot be found and fixed, contact your authorised Allied Telesis distributor or reseller for assistance.

Pkt reject: can't receive from virtual link

Message Pkt reject: can't receive from virtual link: router ID: <router-id>, address: <src-ip-address> -> <dest-ip-address>

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 6/URGENT | 50/OSPF | 68/OSPF | 008 |

Explanation An OSPF packet was received on a virtual link, but due to configuration errors the packet is not valid.

Recommended Action Ignore a single instance of this message. If there are many occurrences of this message, check the OSPF configuration. If the error cannot be found and fixed, contact your authorised Allied Telesis distributor or reseller for assistance.

Pkt reject: MD5 authentication failed

Message Pkt reject: MD5 authentication failed: router ID: *<router-id>*, address: *<src-ip-address>* -> *<dest-ip-address>*

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 6/URGENT | 50/OSPF | 68/OSPF | 011 |

Explanation An OSPF packet was received on an interface configured for MD5 authentication, but the packet failed MD5 authentication.

Recommended Action Ignore a single instance of this message. If there are many occurrences of this message, check the OSPF configuration. If the error cannot be found and fixed, contact your authorised Allied Telesis distributor or reseller for assistance.

Pkt reject: networks don't match

Message Pkt reject: networks don't match: router ID: *<router-id>*, address: *<src-ip-address>* -> *<dest-ip-address>*

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 6/URGENT | 50/OSPF | 68/OSPF | 005 |

Explanation An OSPF packet was received whose source IP address does not belong to the network of the interface on which the packet was received.

Recommended Action Ignore a single instance of this message. If there are many occurrences of this message, check the OSPF configuration. If the error cannot be found and fixed, contact your authorised Allied Telesis distributor or reseller for assistance.

Pkt reject: simple authentication failed

Message Pkt reject: simple authentication failed: router ID: *<router-id>*, address: *<src-ip-address>* -> *<dest-ip-address>*

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 6/URGENT | 50/OSPF | 68/OSPF | 010 |

Explanation An OSPF packet was received with simple password authentication and the password in the packet did not match the configured password.

Recommended Action Ignore a single instance of this message. If there are many occurrences of this message, check the OSPF configuration. If the error cannot be found and fixed, contact your authorised Allied Telesis distributor or reseller for assistance.

Pkt reject: too long

Message Pkt reject: too long: address: <src-ip-address> ->
<dest-ip-address>

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 6/URGENT | 50/OSPF | 68/OSPF | 002 |

Explanation An OSPF packet was received that was too long for the Allied Telesis implementation of OSPF.

Recommended Action Ignore a single instance of this message. If there are many occurrences of this message, check the OSPF configuration. If the error cannot be found and fixed, contact your authorised Allied Telesis distributor or reseller for assistance.

Pkt reject: unconfigured virtual link

Message Pkt reject: unconfigured virtual link: router ID:
<router-id>, address: <src-ip-address> ->
<dest-ip-address>

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 6/URGENT | 50/OSPF | 68/OSPF | 007 |

Explanation An OSPF packet was received that could only be from a virtual link, but there is no virtual link configured that the packet could have come from.

Recommended Action Ignore a single instance of this message. If there are many occurrences of this message, check the OSPF configuration. If the error cannot be found and fixed, contact your authorised Allied Telesis distributor or reseller for assistance.

Pkt reject: unknown interface

Message Pkt reject: unknown interface: address: <src-ip-address>
-> <dest-ip-address>

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 6/URGENT | 50/OSPF | 68/OSPF | 001 |

Explanation An OSPF packet was received on an interface that is not configured for OSPF.

Recommended Action Ignore a single instance of this message. If there are many occurrences of this message, check the OSPF configuration. If the error cannot be found and fixed, contact your authorised Allied Telesis distributor or reseller for assistance.

Pkt reject: unknown neighbour

Message Pkt reject: unknown neighbour: router ID: <router-id>, address: <src-ip-address> -> <dest-ip-address>

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 6/URGENT | 50/OSPF | 68/OSPF | 012 |

Explanation An OSPF packet that is *not* a Hello packet has been received from an unknown OSPF neighbour adjacency.

Recommended Action Ignore a single instance of this message. If there are many occurrences of this message, check the OSPF configuration. If the error cannot be found and fixed, contact your authorised Allied Telesis distributor or reseller for assistance.

Reached route redistribute limit

Message Reached <protocol> route redistribute limit: <limit>, fails: <number-of-failures>

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 6/URGENT | 50/OSPF | 68/OSPF | 030 |

Explanation OSPF has failed to redistribute routes from the specified protocol because the route redistribution limit has been reached. This message is not output every time the redistribution limit is exceeded. Instead, messages are output when the number of times the limit has been reached exceeds a preset high water mark of 1, 100, 200, 500, 1000, 2000, 5000, or 10000. When the high water mark is exceeded, a log message is generated, the high water mark is set to the next number in the list, and a two minute timer is started. If the timer expires before the redistribution limit is reached again, the high water mark is reset to 1.

Recommended Action Further investigation of this message may be required. Check the OSPF configuration. If the error cannot be found and fixed, contact your authorised Allied Telesis distributor or reseller for assistance.

Refresh LSA

Message Refresh <lsa-type> LSA <lsa-id>: router ID: <router-id>

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 2/DETAIL | 50/OSPF | 68/OSPF | 020 |

Explanation A self-originated link state advertisement (LSA) has been refreshed. This occurs every 30 minutes.

Recommended Action No action is required.

Too long LSA

Message Too long *<lsa-type>* LSA *<lsa-id>*: router ID: *<router-id>*, length: *<lsa-length>*, max allowed: *<max-lsa-length>*

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 6/URGENT | 50/OSPF | 68/OSPF | 029 |

Explanation A link state advertisement (LSA) was received which is too long for this device to process.

Recommended Action Further investigation of this message may be required. Check the OSPF configuration. If the error cannot be found and fixed, contact your authorised Allied Telesis distributor or reseller for assistance.

Unexpected ack LSA

Message Unexpected Ack *<lsa-type>* LSA *<lsa-id>*: router ID: *<router-id>*, neighbour: *<nbr-address>*, seq: *<lsa-ack-seq-number-in>*

| Severity | Module | Type | Subtype |
|----------|---------|---------|---------|
| 4/NOTICE | 50/OSPF | 68/OSPF | 023 |

Explanation A link state acknowledgement packet was received containing a link state advertisement (LSA) acknowledgement for a LSA that is not currently in this devices LSA database.

Recommended Action Further investigation of this message may be required. Check the OSPF configuration. If the error cannot be found and fixed, contact your authorised Allied Telesis distributor or reseller for assistance.

Module: GRE

Generic Routing Encapsulation

This chapter contains messages belonging to the module GRE, sorted into the following Types:

- ["MSG: General Messages" on page 162](#)

For more information about GRE, see the *Generic Routing Encapsulation (GRE)* chapter in the *Software Reference*.

Type: MSG

General Messages

GRE rejection

Message GRE rejection : Ver=<non-zero-gre-version> Fl=0
Prot=<protocol-type> Key=<gre-key-value>

GRE rejection : Ver=0 Fl=<non-zero-gre-flags-field>
Prot=<protocol-type> Key=<gre-key-value>

| Severity | Module | Type | Subtype |
|----------|--------|---------|----------|
| 0/DEBUG | 52/GRE | 021/MSG | 001/INFO |

Explanation The GRE implementation on this device is compliant with RFC 1701. The GRE packet received has been dropped because it had an unsupported version of GRE (anything other than version zero), or it contained a non-zero flags field.

Recommended Action Check that the device at the other end of the GRE tunnel is fully compliant with RFC 1701.

Message GRE rejection : Ver=0 Fl=0 Prot=<non-ip-protocol-type>
Key=<gre-key-value>

| Severity | Module | Type | Subtype |
|----------|--------|---------|----------|
| 0/DEBUG | 52/GRE | 021/MSG | 001/INFO |

Explanation The GRE implementation on this device only supports the reception of GRE packets containing an IP packet as the payload. The GRE packet received has been dropped because it had a non-IP payload.

Recommended Action The device at the other end of the GRE tunnel is not compatible with the GRE implementation on this device. Replace it with a compatible device.

Message GRE rejection : Ver=0 Fl=0 Prot=<protocol-type> Key=<gre-key-value>

| Severity | Module | Type | Subtype |
|----------|--------|---------|----------|
| 0/DEBUG | 52/GRE | 021/MSG | 001/INFO |

Explanation The GRE packet received has been dropped because it contains a GRE key value when one was not expected, or contains an incorrect key value.

Recommended Action Check the GRE key configurations at both ends of the tunnel to ensure they match.

Module: TRG

Triggers

This chapter contains messages belonging to the module TRG, sorted into the following Types:

- [“BATCH: Trigger and Script Activation” on page 164](#)

For more information about TRG, see the *Trigger Facility* chapter in the *Software Reference*.

Note that there are more log messages about triggers in the chapter [“LOG: General Messages” on page 170](#).

Type: BATCH

Trigger and Script Activation

Script not found

Message Script *<script-name>* not found

| Severity | Module | Type | Subtype |
|-------------|--------|-----------|---------|
| 5/IMPORTANT | 53/TRG | 012/BATCH | 001/ACT |

Explanation When a trigger was activated the specified script file could not be found and executed.

Recommended Action Create the specified script file.

Trigger activated

Message Trigger *<trigger-number>* activated (*<automatic>*)

Trigger *<trigger-number>* activated (*<manual>*)

| Severity | Module | Type | Subtype |
|----------|--------|-----------|---------|
| 3/INFO | 53/TRG | 012/BATCH | 001/ACT |

Explanation The specified trigger has been activated either normally (automatic) or by command (manual).

Recommended Action No action is required.

Module: SCR

Scripting

This chapter contains messages belonging to the module SCR, sorted into the following Types:

- ["BATCH: Trigger and Script Activation" on page 166](#)

For more information about scripting, see the *Scripting* chapter in the *Software Reference*.

Type: BATCH

Trigger and Script Activation

output logged

Message <output-being-logged>

| Severity | Module | Type | Subtype |
|----------|--------|-----------|---------|
| 2/DETAIL | 54/SCR | 012/BATCH | 003/OUT |

Explanation When triggers execute scripts, the output from the script that would normally go to the device that activated the script, goes to the log function instead via this call.

Recommended Action This message is useful as an audit trail of trigger scripts.

Module: FILE

File System

This chapter contains messages belonging to the module FILE, sorted into the following Types:

- ["FILE \(048\): File System" on page 168](#)

For more information about the file system, see the *Managing the File System* chapter in the *Software Reference*.

Type: FILE (048) File System

Error adding file directory

Message Error adding file directory <hexadecimal-number>

| Severity | Module | Type | Subtype |
|----------|----------|------|---------|
| 6/URGENT | 056/FILE | 048 | 001 |

Explanation The newly created file handle was already on the list of files.

Recommended Action Remove and replace the CompactFlash card to refresh the file list.

Error deleting open file entry

Message Error deleting open file entry <hexadecimal-number>

| Severity | Module | Type | Subtype |
|----------|----------|------|---------|
| 6/URGENT | 056/FILE | 048 | 001 |

Explanation The directory entry being deleted is not found in the list of directory entries.

Recommended Action Contact your authorised Allied Telesis distributor or reseller. Report the hexadecimal number, along with the software release installed on the device.

Error adding file directory

Message Error adding file directory <hexadecimal-number>

| Severity | Module | Type | Subtype |
|----------|------------|------|---------|
| 6/URGENT | 106/CFLASH | 048 | 001 |

Explanation The newly created file handle was already on the list of files. This error is generated adding either a file or a directory to the software directory listing that the file has been physically added to the CompactFlash card.

Recommended Action Remove and replace the CompactFlash card to refresh the file list.

Error deleting file directory

Message Error deleting file directory <hexadecimal-number>

| Severity | Module | Type | Subtype |
|----------|------------|------|---------|
| 6/URGENT | 106/CFLASH | 048 | 001 |

Explanation The file pointer was not on the list of files when it was expected. This error is generated deleting either a file or a directory. The physical delete has occurred and the update of the software directory listing has failed.

Recommended Action Remove and replace the CompactFlash card to refresh the file list.

Error open file

Message Error open file <file-name>.<extension>

| Severity | Module | Type | Subtype |
|----------|------------|------|---------|
| 6/URGENT | 106/CFLASH | 048 | 001 |

Explanation The file could not be opened due to another failure. A message will be output indicating this failure.

Recommended Action Replace the CompactFlash card.

Error reading file

Message Error reading file <file-name>.<extension>

| Severity | Module | Type | Subtype |
|----------|------------|------|---------|
| 6/URGENT | 106/CFLASH | 048 | 001 |

Explanation The file could not be read due to another error.

Recommended Action Replace the CompactFlash card.

Module: LOG

General Messages

This chapter contains messages belonging to the module LOG, sorted into the following Types:

- [“NULL \(000\): General Messages” on page 171](#)

The LOG module contains some of the messages for the following features:

- [Appletalk on page 171](#)
- [BD—bridge debugging on page 171](#)
- [NVS on page 172](#)
- [RADIUS on page 172](#)
- [ENCO—encryption over MIOX circuit on page 172](#)
- [File errors on page 174](#)
- [Ports on page 175](#)
- [FFS and FFSerror—FLASH file system on page 175](#)
- [IP and IPG on page 181](#)
- [IGMP and IGMP snooping on page 186](#)
- [LAPD on page 188](#)
- [MLD snooping on page 193](#)
- [NAS/DMP on page 194](#)
- [NTP on page 196](#)
- [RAND—random number generation for encryption keys on page 196](#)
- [Q.931 on page 198](#)
- [TM—ASYN and SYN port loopback tests on page 199](#)
- [TRG—triggers on page 201](#)
- [Trial licenses on page 218](#)
- [TCB—TCP listen port for LPD on page 218](#)
- [X.25T on page 218](#)

Type: NULL (000) General Messages

AppleTalk - new route not added

Message AppleTalk - new route not added, not enough memory

| Severity: | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation Appletalk is attempting to add a route, but the number of buffers in the device is approaching buffer level 2. Buffer level 2 is advertised in the SHOW BUFFER command as the level at which the device does not do monitor or command output. This message will not occur if the route is being added at boot configuration time.

Recommended Action Investigate the memory depletion on the device.

BD bridge frame debugging

Message BD <port>/<counter>
<source-mac-address>><destination-mac-address>
<frame-type>-<discriminator> <data-length>

BD <port>/<counter>
<source-mac-address>><destination-mac-address>
<frame-type> <data-length>

| Severity: | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation This message indicates the Bridge feature debugging frames that have been set up for logging.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Bad magic in NVS T1 table

Message BAD MAGIC in NVS T1 table. nvsID: <nvs-block> nvsIndex: <index-within-the-nvs-block>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The NVS block had a bad magic number. This usually indicates corruption.

Recommended Action Erase the NVS device using the command:

```
clear nvs totally
```

CC: RADIUS authenticate called back twice

Message CC: RADIUS authenticate called back twice

| Severity: | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation RADIUS has done an authentication callback for an authentication request to which RADIUS has already responded. This is an internal coding error.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

ENCO attach early fail

Message ENCO Attach early fail: <error-code>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An attempt by the MIOX layer to attach to ENCO has failed. This is usually caused by the failure of ENCO channel creation.

Recommended Action Delete unnecessary ENCO attachments by other features. If this does not resolve the issue then reset ENCO.

ENCO configure fail

Message ENCO Configure Fail

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation MIOX has received an event notification from ENCO that an ENCO channel attachment by MIOX has failed.

Recommended Action Delete unnecessary ENCO attachments by other features. If this does not resolve the issue then reset ENCO.

ENCO dead

Message ENCO Dead

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation MIOX has received an event notification from ENCO that an ENCO channel is not operational.

Recommended Action Reset both ENCO and the MIOX circuit concerned.

ENCO decode reset fail

Message ENCO Decode Reset Fail

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation MIOX has received an event notification from ENCO that an attempt by ENCO to reset the decoding channel has failed.

Recommended Action Reset both ENCO and the MIOX circuit concerned.

ENCO encode reset fail

Message ENCO Encode Reset Fail

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation MIOX has received an event notification from ENCO that an attempt by ENCO to reset the encoding channel has failed.

Recommended Action Reset both ENCO and the MIOX circuit concerned.

Error opening file

Message Error <error-code> opening file '<script-name>'

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The software failed to open the specified script file when converting an action to a script and the specified error code was returned.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

filePuts failed

Message filePuts failed

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation A file error occurred when trying to close a script file created for a converted action.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

Error: port is not active

Message Error: Port <port-number> is not active (maybe down)

| Severity | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 1/TRIVIAL | 57/LOG | 000/NULL | 000/NULL |

Explanation The software attempted to send a packet out the specified port, but the port was not link-up.

Recommended Action No immediate action is required. If the problem persists, contact your authorised Allied Telesis distributor or reseller for assistance.

FFS critical error writing header for file

Message FFS critical error <error-number> writing header for file <file-name>.
 "(Recovery error <number> - system <string>)",error, ffsGetFileNameStringFromHeader(pHdrWriteCompletionData->header),CorruptErrCheck,CorruptErrCheck == FFS_ERR_OK ?"recoverable" : "non recoverable"

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The file header for the specified file could not be written successfully.

Recommended Action If the log message says that the error is recoverable try creating another file. If the log message says the error is non-recoverable erase the contents of flash with the CLEAR FLASH TOTALLY command.

FFS locations cannot be erased

Message FFS locations cannot be erased - error <error-number>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The flash software could not erase the block.

Recommended Action Manually clear the contents of flash using the command:

```
clear flash totally
```

FFS non erased locations fixed

Message FFS non erased locations at <address> fixed

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The flash software has erased the unerased location automatically.

Recommended Action No action is required.

FFS non erased locations found

Message FFS non erased locations found at <address>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation Flash blocks need to be erased before they can be written to. An area of flash was expected to be in an erased state when written to but was not.

Recommended Action No action is required as the flash software will erase the unerased location automatically.

FFSError checking file

Message FFSError <error-number> checking file
<name-of-file-being-verified>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The flash software received an error while verifying the specified file.

Recommended Action Delete the file.

FFSError completing file

Message FFSError <error-number> completing file <file-name>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The flash software received an error trying to write the specified file.

Recommended Action Delete the file and try again.

FFSError: corruption found in file header

Message FFSError: corruption found in file header

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The file header being examined by the software had incorrect data in it.

Recommended Action No action is required. The flash software will try to obtain the correct data.

FFSError creating file

Message FFSError <error-number> creating file <file-name>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The flash software received an error trying to create the specified file.

Recommended Action Try to create the file again.

FFSError deleting file

Message FFSError <error-number> deleting file <file-name>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The flash software received an error trying to delete the file.

Recommended Action Try to delete the file again.

FFSError erasing device

Message FFSError <error-number> erasing device

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The flash software received an error while trying to erase the flash device.

Recommended Action Try to erase the device using the command:

```
clear flash totally
```

FFSError: failed to initialise file system

Message FFSError: Failed to initialise file system error no. <error-number>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The file system could not be initialised properly.

Recommended Action Restart the device to restart the recovery process.

FFSError getting file

Message FFSError <error-number> getting file <file-name>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The flash software received an error trying to read the file.

Recommended Action Try to read the file again.

FFSError in compaction

Message FFSError <error-number> in compaction

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An error occurred during compaction. See the *FLASH File System Message Codes* section of the *Reference Tables* appendix, *Software Reference*, for a list of message codes and their meanings.

Recommended Action Either:

- activate another flash compaction, or
- clear the flash totally.

FFSError in restart

Message FFSError <error-number> in restart

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The flash software received an error while attempting to restart the file system

Recommended Action No action is required. The flash software will attempt to reinitialise itself.

FFSError opening file

Message FFSError <error-number> opening file <file-name>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The flash software received an error trying to open the file.

Recommended Action Try to open the file again.

FFSError putting file

Message FFSError <error-number> putting file <file-name>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The flash software received an error trying to write the specified file.

Recommended Action Delete the file and try again.

FFSError reading from file

Message FFSError <error-number> reading from file <file-name>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The flash software received an error trying to read the file.

Recommended Action Try to read the file again.

FFSError renaming file

Message FFSError <error-number> renaming file <file-name>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The flash software received an error trying to rename the file.

Recommended Action Try to rename the file again.

FFSError verifying file

Message FFSError <error-number> verifying file
<name-of-file-being-verified>
FFSError <error-number> verifying file

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The flash software received an error while verifying the specified file.

Recommended Action Delete the file.

FFSError writing file

Message FFSError <error-number> writing file <file-name>
FFSError <error-number> writing to file <file-name>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The flash software received an error trying to write the specified file.

Recommended Action Delete the file and try again.

IP, couldn't allocate new RAM host entry

Message IP, Couldn't allocate new RAM host entry

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An attempt to record a new host entry has failed because the device has run out of memory. This should only happen if the device is used in a very extreme memory shortage situation.

Recommended Action Delete unnecessary configuration items to help free memory.

IP, couldn't get IP index for instance

Message IP, Couldn't get IP Index for Instance
(*<encoded-interface-name>*)

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An attempt to add an ARP on an interface that is not used by IP has taken place.

Recommended Action Check to make sure that the ARP is added on the correct IP interface.

IP, failed to remove interface

Message IP, Failed to remove interface *<interface-name>*

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An attempt to delete an IP interface has failed. The IP interface table may have been corrupted.

Recommended Action Reboot the device.

IP, IP index not free

Message IP, IP Index *<ip-interface-index-of-an-existing-interface>*
not free

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation This log is generated if IP is trying to add a dynamic interface with an IP interface index for an existing interface. This should never happen. If it does, this may indicate that there has been memory corruption.

Recommended Action Reset IP.

IP, IP module reset

Message IP, IP module reset

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation IP has just been reset through the command:

```
reset ip
```

Recommended Action No action is required.

IP, ipArpDettachInterfaceCirc:mioxDetachCircuit

Message IP, ipArpDettachInterfaceCirc:
 mioxDetachCircuit=<detachment-result-code>,
 <ip-address-to-be-disassociated>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An attempt by IP to disassociate a remote destination IP address with an X.25 circuit has failed. This may result in traffic for the remote IP address still being forwarded out of the X.25 circuit.

Recommended Action Reset both X.25 and IP so that they can reinitialise themselves to restore communication.

IP, IPG_Add_Dynamic_Interface - silly parameters

Message IP, IPG_Add_Dynamic_Interface - silly parameters

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation This log is generated if IP is trying to add a dynamic interface with nonsensical parameters. This should never happen. If it does, this may indicate that there has been memory corruption.

Recommended Action Reset IP.

IP, no UDP port available for RIP

Message IP, no UDP port available for RIP

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 2/DETAIL | 57/LOG | 000/NULL | 000/NULL |

Explanation The device failed to open a UDP listen port for RIP (port 512).

Recommended Action Reset IP.

IP, route added from template

Message IP, route [*<route-destination-address>*:
<route-destination-mask>:*<ip-interface-name>*] added from
template *<route-template-name>*

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An IP route has been added by the route template facility on the specified interface.

Recommended Action No action is required.

IP, route delete: mioxDetachCircuit

Message IP, route delete:
mioxDetachCircuit=*<miox-detachment-error-code>*,
<ip-route-destination>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An attempt by IP to disassociate an IP route to an X.25 circuit failed.

Recommended Action Reset both X.25 and IP so that they can reinitialise themselves to restore communication.

IP, unknown interface type

Message IP, Unknown interface type (<encoded-interface-name>)

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An attempt to add an ARP on an illegal interface has taken place.

Recommended Action Check to make sure that the ARP is added on the correct IP interface.

Explanation An attempt to set an ARP interface parameter with an illegal interface name has taken place.

Recommended Action Check to make sure that the ARP is set with a correct IP interface.

IP, X25T attach failed for ARP

Message IP, X25T attach failed for ARP to <ip-address>
(<padding-option>)<attachment-result-code>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An attempt by IP to associate a remote destination IP address to a X.25 circuit has failed. Therefore, communication to the device with the remote IP will fail.

Recommended Action Check to make sure that the MIOX (X.25) circuit is configured properly and also that the physical connection is correctly configured.

IPG, TCP fragment table is full

Message IPG, TCP fragment table is full

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The TCP fragment table is full. This implies serious packet loss in the network, causing TCP packet streams to become fragmented.

Recommended Action Check general network performance, ping times, etc. Contact your authorised Allied Telesis distributor or reseller if there are repeated occurrences of this message.

IPG, TCP urgent table is full

Message IPG, TCP urgent table is full

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The table used to store information about sending urgent segments is full.

Recommended Action Contact your authorised Allied Telesis distributor or reseller for assistance.

IPG, TRUSTED table is full

Message IPG, TRUSTED table is full

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An attempt to add a trusted host entry on the device has failed because the trusted table is full.

Recommended Action Delete unnecessary entries in the trusted table.

IGMP packet trapping is active for IGMP

Message IGMP packet trapping is active for IGMP, L3FILT is activated

| Severity | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 1/TRIVIAL | 57/LOG | 000/NULL | 000/NULL |

Explanation Hardware based filtering has been activated to trap all IGMP messages to be sent to the CPU for further processing by the IGMP function.

Recommended Action No action is required.

IGMP packet trapping is active for IGMP snooping

Message IGMP packet trapping is active for IGMP snooping, L3FILT is activated

| Severity | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 1/TRIVIAL | 57/LOG | 000/NULL | 000/NULL |

Explanation Hardware based filtering has been activated to trap all IGMP messages to be sent to the CPU for further processing by the IGMP snooping function.

Recommended Action No action is required.

IGMP packet trapping not active

Message IGMP packet trapping not active, failed to create HW filters

| Severity | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 1/TRIVIAL | 57/LOG | 000/NULL | 000/NULL |

Explanation Failed to add the IGMP snooping hardware filter to trap the IGMP packets, so IGMP snooping cannot be enabled.

Recommended Action No immediate action is required. If the problem persists, contact your authorised Allied Telesis distributor or reseller for assistance.

IGMP snooping is activated

Message IGMP Snooping is activated

| Severity | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 1/TRIVIAL | 57/LOG | 000/NULL | 000/NULL |

Explanation IGMP Snooping has been activated on the Layer 2 switch.

Recommended Action No action is required.

IGMP snooping not active

Message IGMP Snooping not active, failed to enable ports

| Severity | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 1/TRIVIAL | 57/LOG | 000/NULL | 000/NULL |

Explanation A hardware error occurred while trying to update the switch hardware configuration.

Recommended Action Reboot the device in an attempt to clear the hardware error.

LAPD, all TEIs removed by network

Message LAPD, ALL TEIs on <bri><interface-index> removed by network
LAPD, ALL TEIs on <pri><interface-index> removed by network

| Severity: | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation A packet was received from the network removing all Terminal Endpoint Identifiers (TEIs).

Recommended Action Contact your authorised Allied Telesis distributor or reseller if ISDN interfaces are not working.

LAPD, config failed

Message LAPD, Config to <bri><interface-index> failed; status <reason-for-failure-as-a-number>
LAPD, Config to <pri><interface-index> failed; status <reason-for-failure-as-a-number>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 2/DETAIL | 57/LOG | 000/NULL | 000/NULL |

Explanation When LAPD has attempted to attach to the underlying ISDN interface, the attach has failed. The interface name and reason are specified.

Recommended Action Check the ISDN configuration and presence of expected hardware. If the error cannot be found and fixed, contact your authorised Allied Telesis distributor or reseller for assistance.

LAPD, invalid event for state

Message LAPD, <bri><interface-index> invalid event(<event-type>) for state(<current-state-of-the-interface>); SAPI <sapi-index>

LAPD, <pri><interface-index> invalid event(<event-type>) for state(<current-state-of-the-interface>); SAPI <sapi-index>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 2/DETAIL | 57/LOG | 000/NULL | 000/NULL |

Explanation LAPD has just processed an invalid event.

Recommended Action This message may not indicate a problem, or may indicate either a fault of the network or a transmission error. Contact your authorised Allied Telesis distributor or reseller for further assistance if there are repeated occurrences of this message.

LAPD, MDL assign error

Message LAPD, MDL Assign error on <bri><interface-index>; TEI <tei-instance> removed

LAPD, MDL Assign error on <pri><interface-index>; TEI <tei-instance> removed

| Severity: | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation A Terminal Endpoint Identifier (TEI) has been assigned which was already assigned. The configuration states that in this case the TEI should be removed, rather than the alternative, which is to verify the TEI.

Recommended Action Contact your authorised Allied Telesis distributor or reseller if ISDN interfaces are not working.

LAPD, MDL error indication

Message LAPD, MDL error indication on <bri><interface-index>; TEI <tei-instance> removed
 LAPD, MDL error indication on <pri><interface-index>; TEI <tei-instance> removed

| Severity: | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation A Terminal Endpoint Identifier (TEI) has been removed due to receiving an error indication on that TEI.

Recommended Action Contact your authorised Allied Telesis distributor or reseller if the TEI does not come back, or if there are repeated occurrences of this message

LAPD, MDL ver failed

Message LAPD, MDL Ver failed; TEI <tei-index> removed from <bri><interface-index>
 LAPD, MDL Ver failed; TEI <tei-index> removed from <pri><interface-index>

| Severity: | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The device has attempted to verify a Terminal Endpoint Identifier (TEI) and the verification has timed out, so the TEI is removed.

Recommended Action This message may indicate a lack of connectivity with the network. Check this and if there is still no connectivity, contact your authorised Allied Telesis distributor or reseller for assistance.

LAPD, network req's removal of all TEIs

Message LAPD, network req's removal of ALL TEIs on
 <bri><interface-index>
 LAPD, network req's removal of ALL TEIs on
 <pri><interface-index>

| Severity: | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation A packet was received from the network requesting the removal of all Terminal Endpoint Identifiers (TEIs).

Recommended Action Contact your authorised Allied Telesis distributor or reseller if ISDN interfaces are not working.

LAPD, network req's removal TEI

Message LAPD, network req's removal TEI <tei-index> on
 <bri><interface-index>
 LAPD, network req's removal TEI <tei-index> on
 <pri><interface-index>

| Severity: | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation A packet was received from the network requesting the removal of a single Terminal Endpoint Identifier (TEI).

Recommended Action Contact your authorised Allied Telesis distributor or reseller if ISDN interfaces are not working.

LAPD, no TEI available

Message LAPD, No TEI available, <bri><interface-index> SAPI <sapi-index>
LAPD, No TEI available, <pri><interface-index> SAPI <sapi-index>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 2/DETAIL | 57/LOG | 000/NULL | 000/NULL |

Explanation There has been a request for a Terminal Endpoint Identifier (TEI) and none are available. This will only occur for manually assigned TEIs.

Recommended Action Check the ISDN configuration - you may be able to add another TEI if required. Contact your authorised Allied Telesis distributor or reseller if you require further assistance.

LAPD now established

Message LAPD on <bri><interface-index> now ESTABLISHED
LAPD on <pri><interface-index> now ESTABLISHED

| Severity: | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation LAPD has just entered ESTABLISHED state.

Recommended Action This message may not indicate a problem. However, this message does indicate if the interface is going down repeatedly, then coming up. Contact your authorised Allied Telesis distributor or reseller for assistance in the first instance, rather than the ISDN provider.

LAPD now not established

Message LAPD on <bri><interface-index> now NOT ESTABLISHED
LAPD on <pri><interface-index> now NOT ESTABLISHED

| Severity: | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation LAPD has just left ESTABLISHED state.

Recommended Action This message may not indicate a problem. However, this message does indicate a problem if LAPD is meant to be established. Contact your authorised Allied Telesis distributor or reseller for assistance in the first instance, rather than the ISDN provider.

LAPD, TEI removed by network

Message LAPD, TEI <tei-index> on <bri><interface-index> removed by network
LAPD, TEI <tei-index> on <pri><interface-index> removed by network

| Severity: | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation A packet was received from the network removing a single Terminal Endpoint Identifier (TEI).

Recommended Action Contact your authorised Allied Telesis distributor or reseller if ISDN interfaces are not working.

LAPD, unknown MDL event

Message LAPD, Unknown MDL event <event-type>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 2/DETAIL | 57/LOG | 000/NULL | 000/NULL |

Explanation An invalid event was seen in the MDL state machine (the state machine that negotiates Terminal Endpoint Identifiers (TEIs) before the link comes up).

Recommended Action Contact your authorised Allied Telesis distributor or reseller for further assistance if there are repeated occurrences of this message.

MLD snooping is active

Message MLD Snooping is active, L3FILT is activated

| Severity | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 1/TRIVIAL | 57/LOG | 000/NULL | 000/NULL |

Explanation A MLD snooping hardware filter was added to trap the MLD packets.

Recommended Action No action is required.

MLD snooping not active

Message MLD Snooping not active, failed to create HW filters

| Severity | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 1/TRIVIAL | 57/LOG | 000/NULL | 000/NULL |

Explanation Failed to add the MLD snooping hardware filter to trap the MLD packets, so MLD snooping cannot be enabled.

Recommended Action No immediate action is required. If the problem persists, contact your authorised Allied Telesis distributor or reseller for assistance.

NAS/DMP attach early fail

Message NAS/DMP Attach early fail: <error-code>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An attempt by the MIOX layer to attach to NAS has failed. This is usually caused by the failure of NAS channel creation.

Recommended Action Delete unnecessary NAS attachments by other features. If this does not resolve the issue then reset NAS.

NAS/DMP backward reset fail

Message NAS/DMP Backward Reset Fail

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation MIOX has received an event notification from NAS that an attempt by NAS to reset the decoding channel has failed.

Recommended Action Reset both NAS/DMP and the MIOX circuit concerned.

NAS/DMP configure fail

Message NAS/DMP Configure Fail

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An attempt by the MIOX layer to attach to NAS has failed. This is usually caused by the failure of NAS channel creation.

Recommended Action Delete unnecessary NAS attachments by other features. If this does not resolve the issue then reset NAS.

NAS/DMP dead

Message NAS/DMP Dead

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation MIOX has received an event notification from NAS/DMP that an NAS/DMP channel is not operational.

Recommended Action Reset both NAS/DMP and the MIOX circuit concerned.

NAS/DMP forward reset fail

Message NAS/DMP Forward Reset Fail

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation MIOX has received an event notification from NAS that an attempt by NAS to reset the encoding channel has failed.

Recommended Action Reset both NAS/DMP and the MIOX circuit concerned.

NTP changed the configured host IP address

Message NTP changed the configured Host IP address

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation A NTP host IP address (the IP address used as the ID of the NTP agent) has been modified.

Recommended Action No action is required.

RAND - error opening file for reading

Message RAND - error opening file for reading

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An attempt by the operating system to read a random number generation file has failed. This may indicate corruption of the random file kept in either NVS or Flash.

Recommended Action Try to delete the file(*.rnd) from either Flash or NVS. If this does not work, save all other files in the same storage unit and then clear the storage area - see the Flash or the NVS section in the *Software Reference*.

RAND - error opening file for writing

Message RAND - error opening file for writing

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An attempt by the operating system to open/write a random number generation file has failed. This may indicate corruption of the random number generation file kept in either NVS or Flash.

Recommended Action Check to make sure there is enough room in the storage area for writing the file. If there is enough space, yet this log message still appears, save all other files in the storage area and clear the storage area - see the Flash or the NVS section in the *Software Reference*.

RAND - error reading keys

Message RAND - error reading keys

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An attempt by the operating system to read keys in the random number generation file has failed. This may indicate corruption of the random file kept in either NVS or Flash.

Recommended Action Try to delete the file (*.rnd) from either Flash or NVS. If this does not work, save all other files in the same storage unit and then clear the storage area - see the Flash or the NVS section in the *Software Reference*.

RAND - error reading random numbers

Message RAND - error reading random numbers

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An attempt by the operating system to read saved random numbers in the random number generation file has failed. This may indicate corruption of the random file kept in either NVS or Flash.

Recommended Action Try to delete the file (*.rnd) from either Flash or NVS. If this does not work, save all other files in the same storage unit and then clear the storage area - see the Flash or the NVS section in the *Software Reference*.

RAND - error writing keys to file

Message RAND - error writing keys to file

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An attempt by the operating system to write keys to the random number generation file has failed. This may indicate corruption of the random number generation file kept in either NVS or Flash.

Recommended Action Check to make sure there is enough room in the storage area for writing the file. If there is enough space, yet this log message still appears, save all other files in the storage area and clear the storage area - see the Flash or the NVS section in the *Software Reference*.

RAND - error writing random nums to file

Message RAND - error writing random nums to file

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An attempt by the operating system to write saved random numbers to the random number generation file has failed. This may indicate corruption of the random number generation file kept in either NVS or Flash.

Recommended Action Check to make sure there is enough room in the storage area for writing the file. If there is enough space, yet this log message still appears, save all other files in the storage area and clear the storage area - see the Flash or the NVS section in the *Software Reference*.

RAND - file does not exist

Message RAND - file does not exist

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 2/DETAIL | 57/LOG | 000/NULL | 000/NULL |

Explanation There has been an attempt to read a non-existent random file. This may happen when the device has never had an automatically generated random number file in its storage systems.

Recommended Action No action is required.

Q.931 display

Message Q.931 display [<display-ie>]

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 2/DETAIL | 57/LOG | 000/NULL | 000/NULL |

Explanation An ISDN message was received with an information element (IE) in it called Display. The contents of this IE are logged.

Recommended Action No action is required.

q931: event on CES 0 for ISDN int

Message q931: event <lapd-event> on CES 0 for ISDN int
<q931-interface-index>

| Severity | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 1/TRIVIAL | 57/LOG | 000/NULL | 000/NULL |

Explanation A LAPD event was received by Q.931 that was invalid to receive on Connection Endpoint Suffix (CES) 0.

Recommended Action This message is a useful diagnostic tool in the event of ISDN connectivity issues.

TM, asyn control fault

Message TM, asyn<instance> control fault; cd <control-state> !=
rts <control-state>

TM, asyn<instance> control fault; cd <control-state> !=
dtr <control-state>

TM, asyn<instance> control fault; ring <control-state> !=
dtr <control-state>

TM, asyn<instance> control fault; cts <control-state> !=
rts <control-state>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An error has been detected with the asynchronous port loopback test.

Possible *control-state* values are:

- invalid
- not implemented
- ON
- OFF

Recommended Action Check that the test equipment and cables are operating correctly to identify if the fault is with the device under test or with the test equipment.

TM, syn control fault

Message TM, syn<instance> <syn-int-type> control fault; cd
<control-state> != rts <control-state>

TM, syn<instance> <syn-int-type> control fault; dsr
<control-state> != dtr <control-state>

TM, syn<instance> <syn-int-type> control fault; ti
<control-state> != dtr <control-state>

TM, syn<instance> <syn-int-type> control fault; cts
<control-state> != rl <control-state>

TM, syn<instance> <syn-int-type> control fault; cts
<control-state> != rts <control-state>

TM, syn<instance> <syn-int-type> control fault; dsr
<control-state> != dtr <control-state>

TM, syn<instance> <syn-int-type> control fault; ti
<control-state> != dtr <control-state>

TM, syn<instance> <syn-int-type> control fault; cd
<control-state> != rl <control-state>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An error has been detected with the control signals in a synchronous port loopback test.

Possible synchronous interface type (*syn-int-type*) values are:

- RS-232 DTE
- RS-530 DTE
- V.35 DTE
- X.21 DTE
- RS-232 DCE
- V.35 DCE
- X.21 DCE

Possible *control-state* values are:

- invalid
- not implemented
- ON
- OFF

Recommended Action Check that the test equipment and cables are operating correctly to identify if the fault is with the device under test or with the test equipment.

TM, syn mode select fault

Message TM, syn<instance> <syn-int-type> mode select fault; read <syn-int-type>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An error has been detected with the control signals in a synchronous port loopback test.

Possible synchronous interface type (*syn-int-type*) values are:

- RS-232 DTE
- RS-530 DTE
- V.35 DTE
- X.21 DTE
- RS-232 DCE
- V.35 DCE
- X.21 DCE

Recommended Action Check that the test equipment and cables are operating correctly to identify if the fault is with the device under test or with the test equipment.

TRG, action out of range

Message TRG, Action (<action-number>) out of range (1.. <maximum-action-number>) - convert

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation When converting an action number in the NVS configuration it was found to be greater than the allowable maximum.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, day value out of range (0..6)

Message TRG, day value (<day-number>) out of range (0..6)

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation When checking whether the day number appears in a trigger specification it was found that the day number was illegal.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, failed to add trigger to dynamic config

Message TRG, failed to add trigger to dynamic config

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An attempt to add a trigger to the dynamic configuration failed.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, failed to allocate command queue record

Message TRG, failed to allocate command queue record

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The attempt to allocate some memory for a command queue record failed.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, failed to allocate freelist record

Message TRG, failed to allocate freelist record, trigger
<trigger-number>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The attempt to allocate some memory for the specified trigger failed.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, failed to allocate new circular queue entry

Message TRG, failed to allocate new circular queue entry

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The attempt to allocate some memory for a queue of triggers failed.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, failed to convert action NVS to dynamic

Message TRG, failed to convert action <action-number> NVS to
dynamic

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The software failed to convert the NVS configuration for the specified action to the dynamic configuration.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, failed to convert trigger to dynamic struct

Message TRG, failed to convert trigger <trigger-number> to dynamic struct

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The software failed to convert the NVS trigger configuration for the specified trigger to the dynamic configuration.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, failed to delete trigger from dynamic config

Message TRG, failed to delete trigger <trigger-number> from dynamic config

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The attempt to delete the specified trigger from the dynamic configuration failed.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, failed to read actions for trigger

Message TRG, failed (<error-code>) to read actions for trigger <trigger-number>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The specified error code was returned when attempting to read the actions of the specified trigger from NVS.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, failed to read header record of trigger

Message TRG, Failed (<error-code>) to read header record of trigger <trigger-number>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The specified error code was returned when attempting to read the header record of the specified trigger number's configuration from NVS.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, failed to read type-specific config for trigger

Message TRG, Failed (<error-code>) to read type-specific config for trigger <trigger-number>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The specified error code was returned when attempting to read the type specific configuration of the specified trigger from NVS.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, illegal parameter number

Message TRG, illegal parameter number (<parameter-number>)

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An illegal command line parameter has been detected.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, illegal version or type

Message TRG, illegal version or type, trigger <trigger-number>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation When read from NVS the version or type of the specified trigger had an illegal number.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, NULL pointer passed

Message TRG, NULL pointer passed to trgDisplayTrigger

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation A NULL data pointer has been passed to the Display Trigger routine.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, number of actions too large

Message TRG, number of actions (<action-number>) too large

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The software discovered that there were too many actions when converting an NVS trigger configuration to a dynamic configuration.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, NVS error locating typeinfo of trigger

Message TRG, NVS error (<error-code>) locating typeinfo of trigger <trigger-number>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The specified error code was returned when attempting to locate the type specific configuration information of the specified trigger in NVS.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, NVS error opening trigger

Message TRG, NVS error <error-code> opening trigger <trigger-number>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The specified error code was returned when trying to read the specified action from NVS.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, NVS error reading action header

Message TRG, NVS error <error-code> reading action <action-number> header

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The specified error code was returned when trying to read the specified action header from NVS.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, NVS error reading trigger header

Message TRG, NVS error *<error-code>* reading trigger *<trigger-number>* header

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The specified error code was returned when trying to read the header of the specified trigger from NVS.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, NVS error reading type-specific info

Message TRG, NVS error *<error-code>* reading type-specific info trigger *<trigger-number>*

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The specified error code was returned when trying to read the type-specific information of the specified trigger from NVS.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, range check error

Message TRG, range check error - trgCheckTimeWindow

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation When checking the current time against a trigger time window an invalid value was detected.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, testing trigger

Message TRG, testing trigger #<trigger-number> - script <script-name>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation When a trigger activated in TEST mode, the specified script could not be found.

Recommended Action Create the specified script file.

TRG, time source invalid

Message TRG, time source invalid in trgGetCurrentTime

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation When the trigger feature attempted to get the current time it found that the real time clock had not been set.

Recommended Action To initialise the real time clock, use the commands:

```
set date
set time
```

TRG, too many scripts configured

Message TRG, too many scripts configured (<script-count>), adding trigger <trigger-number>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The number of scripts for the specified trigger exceeded the maximum allowed.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, trigger already defined

Message TRG, trigger *<trigger-number>* already defined at *<trigger-memory-address>*

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The number of a new trigger being created was already in use for another trigger.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, trigger doesn't exist

Message TRG, trigger *<trigger-number>* doesn't exist - trgActivate

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The number of the trigger being activated did not correspond to an available trigger.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, trigger invalid in NVS

Message TRG, Trigger *<trigger-number>* invalid in NVS

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation There was a problem reading the specified trigger specification from NVS.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, trigger not defined

Message TRG, trigger <trigger-number> not defined - delete
 TRG, trigger <trigger-number> not defined - delete dynamic

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation There was no trigger of the number specified for deletion.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, trigger not found reading from NVS

Message TRG, trigger <trigger-number> not found reading from NVS

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The configuration for this trigger number was not found in NVS.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, trigger out of range - activate

Message TRG, trigger (<trigger-number>) out of range (1..
 <maximum-number-of-triggers-allowed>) - trgActivate

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The number of the trigger being activated fell outside the allowable range.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, trigger out of range - adding

Message TRG, trigger (<trigger-number>) out of range - adding
 TRG, trigger (<trigger-number>) out of range - adding
 dynamic

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The number of a new trigger being created was outside the allowable range.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, trigger out of range - delete

Message TRG, trigger (<trigger-number>) out of range (1..
 <maximum-number-of-triggers-allowed>) - delete
 TRG, trigger (<trigger-number>) out of range (1..
 <maximum-number-of-triggers-allowed>) - delete dynamic

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The number of the trigger being deleted fell outside the allowable range.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, trigger out of range - get pointer

Message TRG, trigger (<trigger-number>) out of range - get pointer

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The number of a trigger fell outside the allowable range.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, trigger out of range - NVS read

Message TRG, Trigger (<*trigger-number*>) out of range (1.. <*maximum-number-of-triggers-allowed*>) - NVS read

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The number of the trigger configuration being read fell outside the allowable range.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, unexpected error locating actions for trigger

Message TRG, unexpected error (<*error-code*>) locating actions for trigger <*trigger-number*>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The specified error code was returned when attempting to locate the actions of the specified trigger in NVS.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, unexpected error reading action

Message TRG, unexpected error (<*error-code*>) reading action <*action-number*>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An unexpected error code was returned when reading the specified action number's configuration from NVS.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, unexpected error reading command

Message TRG, unexpected error (<error-code>) reading command
<command-number> action <action-number>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The specified NVS error code was returned when the specified command number of the specified action was read from NVS.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, unexpected error reading header of action

Message TRG, unexpected error (<error-code>) reading header of
action <action-number>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An unexpected error code was returned when reading the header of the specified action number's configuration from NVS.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, unexpected error reading trigger from NVS

Message TRG, unexpected error (<error-code>) reading trigger
<trigger-number> from NVS

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An unexpected error code was returned when reading the specified trigger number's configuration from NVS.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, unknown parameter

Message TRG, Unknown parameter *<parameter-number>*

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation An undefined command line parameter number has been detected.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, unknown problem with trigger in NVS

Message TRG, Unknown problem with trigger *<trigger-number>* in NVS

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation There was some unknown error or an invalid entry in the NVS for the specified trigger.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, unknown trigger type

Message TRG, unknown trigger type (*<trigger-type>*) - convert NVS to dynamic

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The software discovered an unknown trigger type when converting an NVS trigger configuration to a dynamic configuration.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, unknown version of NVS config

Message TRG, unknown version (<nvs-configuration-version-number>) of NVS config

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The configuration information in NVS has an incorrect version number.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, unknown version of trigger

Message TRG, unknown version (<version-number>) of trigger <trigger-number>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The configuration of the specified trigger had an unknown version number when read from NVS.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, value found on SUMMARY parameter

Message TRG, value found on SUMMARY parameter!

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation A value on the SUMMARY parameter has been detected.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, version mismatch - convert NVS to dynamic

Message TRG, version mismatch (<version-number>) - convert NVS to dynamic

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The software discovered a version mismatch when converting an NVS action to a dynamic configuration.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, version mismatch in NVS trigger record

Message TRG, version mismatch (<version-number>) in NVS trigger record

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The software discovered a version mismatch when converting an NVS trigger configuration to a dynamic configuration.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

TRG, version mismatch reading action

Message TRG, version mismatch (<version-number>) reading action <action-number>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation The configuration of the specified action had an unknown version number when read from NVS.

Recommended Action This is an internal error. Contact your authorised Allied Telesis distributor or reseller for assistance.

Trial licence removed

Message Trial licence removed from <module-id>

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 57/LOG | 000/NULL | 000/NULL |

Explanation A temporary software licence, not a feature licence, has just expired.

Recommended Action If a new licence is required, obtain one from your authorised Allied Telesis distributor or reseller.

Unable to create new TCB

Message Unable to create new TCB

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 0/DEBUG | 57/LOG | 000/NULL | 000/NULL |

Explanation The device failed to open a TCP listen port for LPD (port 515). There may be too many TCP sessions on the device.

Recommended Action Close some TCP sessions such as telnet, LPD, HTTP to, or from, the device.

x25t ignored facility

Message x25t<interface-index> (<pvc>-<logical-channel-number>),
Ignored fac.: <unrecognised-facility>
x25t<interface-index> (<svc>-<logical-channel-number>),
Ignored fac.: <unrecognised-facility>
x25t<interface-index> (<pvc>-<logical-channel-number>),
Ignored fac.: <unrecognised-facility>
x25t<interface-index> (<svc>-<logical-channel-number>),
Ignored fac.: <unrecognised-facility>

| Severity | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 1/TRIVIAL | 57/LOG | 000/NULL | 000/NULL |

Explanation A facility in a call connected packet has been seen but is not recognised.

Recommended Action The device does not support all facilities. If the call is failing, then the lack of support for a particular facility may be the problem. If this is suspected, contact your authorised Allied Telesis distributor or reseller for assistance.

x25tActivateCall

Message x25tActivateCall >> Int not active, Circ=<pvc>
 Act=<call-active> IntState=<1-LAPB-down>
 UQueue=<reason-circuit-unable-to-queue>

x25tActivateCall >> Int not active, Circ=<pvc>
 Act=<call-active> IntState=<2-restarting>
 UQueue=<reason-circuit-unable-to-queue>

x25tActivateCall >> Int not active, Circ=<pvc>
 Act=<call-active> IntState=<3-active>
 UQueue=<reason-circuit-unable-to-queue>

x25tActivateCall >> Int not active, Circ=<pvc>
 Act=<not-active> IntState=<1-LAPB-down>
 UQueue=<reason-circuit-unable-to-queue>

x25tActivateCall >> Int not active, Circ=<pvc>
 Act=<not-active> IntState=<2-restarting>
 UQueue=<reason-circuit-unable-to-queue>

x25tActivateCall >> Int not active, Circ=<pvc>
 Act=<not-active> IntState=<3-active>
 UQueue=<reason-circuit-unable-to-queue>

x25tActivateCall >> Int not active, Circ=<svc>
 Act=<call-active> IntState=<1-LAPB-down>
 UQueue=<reason-circuit-unable-to-queue>

x25tActivateCall >> Int not active, Circ=<svc>
 Act=<call-active> IntState=<2-restarting>
 UQueue=<reason-circuit-unable-to-queue>

x25tActivateCall >> Int not active, Circ=<svc>
 Act=<call-active> IntState=<3-active>
 UQueue=<reason-circuit-unable-to-queue>

x25tActivateCall >> Int not active, Circ=<svc>
 Act=<not-active> IntState=<1-LAPB-down>
 UQueue=<reason-circuit-unable-to-queue>

x25tActivateCall >> Int not active, Circ=<svc>
 Act=<not-active> IntState=<2-restarting>
 UQueue=<reason-circuit-unable-to-queue>

x25tActivateCall >> Int not active, Circ=<svc>
 Act=<not-active> IntState=<3-active>
 UQueue=<reason-circuit-unable-to-queue>

| Severity | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 1/TRIVIAL | 57/LOG | 000/NULL | 000/NULL |

Explanation An X.25 switched virtual circuit (SVC) has been activated, but the interface is not active.

Recommended Action This message may not indicate a problem if the interface is still coming up, otherwise this message could indicate a failure in the interface state.

x25tActivateTestCall

Message x25tActivateTestCall >> Circ=<pvc> Act=<call-active>
 IntState=<1-LAPB-down>
 UQueue=<reason-circuit-unable-to-queue>

x25tActivateTestCall >> Circ=<pvc> Act=<call-active>
 IntState=<2-restarting>
 UQueue=<reason-circuit-unable-to-queue>

x25tActivateTestCall >> Circ=<pvc> Act=<call-active>
 IntState=<3-active>
 UQueue=<reason-circuit-unable-to-queue>

x25tActivateTestCall >> Circ=<pvc> Act=<not-active>
 IntState=<1-LAPB-down>
 UQueue=<reason-circuit-unable-to-queue>

x25tActivateTestCall >> Circ=<pvc> Act=<not-active>
 IntState=<2-restarting>
 UQueue=<reason-circuit-unable-to-queue>

x25tActivateTestCall >> Circ=<pvc> Act=<not-active>
 IntState=<3-active>
 UQueue=<reason-circuit-unable-to-queue>

x25tActivateTestCall >> Circ=<svc> Act=<call-active>
 IntState=<1-LAPB-down>
 UQueue=<reason-circuit-unable-to-queue>

x25tActivateTestCall >> Circ=<svc> Act=<call-active>
 IntState=<2-restarting>
 UQueue=<reason-circuit-unable-to-queue>

x25tActivateTestCall >> Circ=<svc> Act=<call-active>
 IntState=<3-active>
 UQueue=<reason-circuit-unable-to-queue>

x25tActivateTestCall >> Circ=<svc> Act=<not-active>
 IntState=<1-LAPB-down>
 UQueue=<reason-circuit-unable-to-queue>

x25tActivateTestCall >> Circ=<svc> Act=<not-active>
 IntState=<2-restarting>
 UQueue=<reason-circuit-unable-to-queue>

x25tActivateTestCall >> Circ=<svc> Act=<not-active>
 IntState=<3-active>
 UQueue=<reason-circuit-unable-to-queue>

| Severity | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 1/TRIVIAL | 57/LOG | 000/NULL | 000/NULL |

Explanation An X.25 test call has been activated, but the interface is not active.

Recommended Action This message may not indicate a problem if the interface is still coming up, otherwise this message could indicate a failure in the interface state.

x25tDTable

Message x25tDTable >> Circ=<pvc> Act=<call-active>
IntState=<1-LAPB-down>
UQueue=<reason-circuit-unable-to-queue>
Idx=<internal-state-machine-variable>
DEvent=<internal-state-machine-variable>
CurrState=<internal-state-machine-variable>

x25tDTable >> Circ=<pvc> Act=<call-active>
IntState=<2-restarting>
UQueue=<reason-circuit-unable-to-queue>
Idx=<internal-state-machine-variable>
DEvent=<internal-state-machine-variable>
CurrState=<internal-state-machine-variable>

x25tDTable >> Circ=<pvc> Act=<call-active>
IntState=<3-active>
UQueue=<reason-circuit-unable-to-queue>
Idx=<internal-state-machine-variable>
DEvent=<internal-state-machine-variable>
CurrState=<internal-state-machine-variable>

x25tDTable >> Circ=<pvc> Act=<not-active>
IntState=<1-LAPB-down>
UQueue=<reason-circuit-unable-to-queue>
Idx=<internal-state-machine-variable>
DEvent=<internal-state-machine-variable>
CurrState=<internal-state-machine-variable>

x25tDTable >> Circ=<pvc> Act=<not-active>
IntState=<2-restarting>
UQueue=<reason-circuit-unable-to-queue>
Idx=<internal-state-machine-variable>
DEvent=<internal-state-machine-variable>
CurrState=<internal-state-machine-variable>

x25tDTable >> Circ=<pvc> Act=<not-active>
IntState=<3-active>
UQueue=<reason-circuit-unable-to-queue>
Idx=<internal-state-machine-variable>
DEvent=<internal-state-machine-variable>
CurrState=<internal-state-machine-variable>

x25tDTable >> Circ=<svc> Act=<call-active>
IntState=<1-LAPB-down>
UQueue=<reason-circuit-unable-to-queue>
Idx=<internal-state-machine-variable>
DEvent=<internal-state-machine-variable>
CurrState=<internal-state-machine-variable>

x25tDTable >> Circ=<svc> Act=<call-active>
IntState=<2-restarting>
UQueue=<reason-circuit-unable-to-queue>
Idx=<internal-state-machine-variable>
DEvent=<internal-state-machine-variable>
CurrState=<internal-state-machine-variable>

```
x25tDTable >> Circ=<svc> Act=<call-active>
  IntState=<3-active>
  UQueue=<reason-circuit-unable-to-queue>
  Idx=<internal-state-machine-variable>
  DEvent=<internal-state-machine-variable>
  CurrState=<internal-state-machine-variable>

x25tDTable >> Circ=<svc> Act=<not-active>
  IntState=<1-LAPB-down>
  UQueue=<reason-circuit-unable-to-queue>
  Idx=<internal-state-machine-variable>
  DEvent=<internal-state-machine-variable>
  CurrState=<internal-state-machine-variable>

x25tDTable >> Circ=<svc> Act=<not-active>
  IntState=<2-restarting>
  UQueue=<reason-circuit-unable-to-queue>
  Idx=<internal-state-machine-variable>
  DEvent=<internal-state-machine-variable>
  CurrState=<internal-state-machine-variable>

x25tDTable >> Circ=<svc> Act=<not-active>
  IntState=<3-active>
  UQueue=<reason-circuit-unable-to-queue>
  Idx=<internal-state-machine-variable>
  DEvent=<internal-state-machine-variable>
  CurrState=<internal-state-machine-variable>
```

| Severity | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 1/TRIVIAL | 57/LOG | 000/NULL | 000/NULL |

Explanation An internal error has been detected in processing the D (data) event table.

Recommended Action Contact your authorised Allied Telesis distributor or reseller for assistance.

x25tProcessPacket

Message x25tProcessPacket >> Idx=<internal-state-machine-variable>
 REvent=<internal-state-machine-variable>
 CurrState=<internal-state-machine-variable>

| Severity | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 1/TRIVIAL | 57/LOG | 000/NULL | 000/NULL |

Explanation An internal error has been detected in processing the R (restart) event table.

Recommended Action Contact your authorised Allied Telesis distributor or reseller for assistance.

x25tPTable

Message x25tPTable >> Circ=<pvc> Act=<call-active>
IntState=<1-LAPB-down>
UQueue=<reason-circuit-unable-to-queue>
Idx=<internal-state-machine-variable>
DEvent=<internal-state-machine-variable>
CurrState=<internal-state-machine-variable>

x25tPTable >> Circ=<pvc> Act=<call-active>
IntState=<2-restarting>
UQueue=<reason-circuit-unable-to-queue>
Idx=<internal-state-machine-variable>
DEvent=<internal-state-machine-variable>
CurrState=<internal-state-machine-variable>

x25tPTable >> Circ=<pvc> Act=<call-active>
IntState=<3-active>
UQueue=<reason-circuit-unable-to-queue>
Idx=<internal-state-machine-variable>
DEvent=<internal-state-machine-variable>
CurrState=<internal-state-machine-variable>

x25tPTable >> Circ=<pvc> Act=<not-active>
IntState=<1-LAPB-down>
UQueue=<reason-circuit-unable-to-queue>
Idx=<internal-state-machine-variable>
DEvent=<internal-state-machine-variable>
CurrState=<internal-state-machine-variable>

x25tPTable >> Circ=<pvc> Act=<not-active>
IntState=<2-restarting>
UQueue=<reason-circuit-unable-to-queue>
Idx=<internal-state-machine-variable>
DEvent=<internal-state-machine-variable>
CurrState=<internal-state-machine-variable>

x25tPTable >> Circ=<pvc> Act=<not-active>
IntState=<3-active>
UQueue=<reason-circuit-unable-to-queue>
Idx=<internal-state-machine-variable>
DEvent=<internal-state-machine-variable>
CurrState=<internal-state-machine-variable>

x25tDTable >> Circ=<svc> Act=<call-active>
IntState=<1-LAPB-down>
UQueue=<reason-circuit-unable-to-queue>
Idx=<internal-state-machine-variable>
DEvent=<internal-state-machine-variable>
CurrState=<internal-state-machine-variable>

x25tPTable >> Circ=<svc> Act=<call-active>
IntState=<2-restarting>
UQueue=<reason-circuit-unable-to-queue>
Idx=<internal-state-machine-variable>
DEvent=<internal-state-machine-variable>
CurrState=<internal-state-machine-variable>


```

x25tPTable >> Circ=<svc> Act=<call-active>
  IntState=<3-active>
  UQueue=<reason-circuit-unable-to-queue>
  Idx=<internal-state-machine-variable>
  DEvent=<internal-state-machine-variable>
  CurrState=<internal-state-machine-variable>

x25tPTable >> Circ=<svc> Act=<not-active>
  IntState=<1-LAPB-down>
  UQueue=<reason-circuit-unable-to-queue>
  Idx=<internal-state-machine-variable>
  DEvent=<internal-state-machine-variable>
  CurrState=<internal-state-machine-variable>

x25tDTable >> Circ=<svc> Act=<not-active>
  IntState=<2-restarting>
  UQueue=<reason-circuit-unable-to-queue>
  Idx=<internal-state-machine-variable>
  DEvent=<internal-state-machine-variable>
  CurrState=<internal-state-machine-variable>

x25tPTable >> Circ=<svc> Act=<not-active>
  IntState=<3-active>
  UQueue=<reason-circuit-unable-to-queue>
  Idx=<internal-state-machine-variable>
  DEvent=<internal-state-machine-variable>
  CurrState=<internal-state-machine-variable>

```

| Severity | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 1/TRIVIAL | 57/LOG | 000/NULL | 000/NULL |

Explanation An internal error has been detected in processing the P (call connection) event table.

Recommended Action Contact your authorised Allied Telesis distributor or reseller for assistance.

x25tPvcAttach

Message x25tPvcAttach >> Circ=<pvc> Act=<call-active>
 IntState=<1-LAPB-down>
 UQueue=<reason-circuit-unable-to-queue>

x25tPvcAttach >> Circ=<pvc> Act=<call-active>
 IntState=<2-restarting>
 UQueue=<reason-circuit-unable-to-queue>

x25tPvcAttach >> Circ=<pvc> Act=<call-active>
 IntState=<3-active>
 UQueue=<reason-circuit-unable-to-queue>

x25tPvcAttach >> Circ=<pvc> Act=<not-active>
 IntState=<1-LAPB-down>
 UQueue=<reason-circuit-unable-to-queue>

x25tPvcAttach >> Circ=<pvc> Act=<not-active>
 IntState=<2-restarting>
 UQueue=<reason-circuit-unable-to-queue>

x25tPvcAttach >> Circ=<pvc> Act=<not-active>
 IntState=<3-active>
 UQueue=<reason-circuit-unable-to-queue>

x25tPvcAttach >> Circ=<svc> Act=<call-active>
 IntState=<1-LAPB-down>
 UQueue=<reason-circuit-unable-to-queue>

x25tPvcAttach >> Circ=<svc> Act=<call-active>
 IntState=<2-restarting>
 UQueue=<reason-circuit-unable-to-queue>

x25tPvcAttach >> Circ=<svc> Act=<call-active>
 IntState=<3-active>
 UQueue=<reason-circuit-unable-to-queue>

x25tPvcAttach >> Circ=<svc> Act=<not-active>
 IntState=<1-LAPB-down>
 UQueue=<reason-circuit-unable-to-queue>

x25tPvcAttach >> Circ=<svc> Act=<not-active>
 IntState=<2-restarting>
 UQueue=<reason-circuit-unable-to-queue>>

x25tPvcAttach >> Circ=<svc> Act=<not-active>
 IntState=<3-active>
 UQueue=<reason-circuit-unable-to-queue>>

| Severity | Module | Type | Subtype |
|-----------|--------|----------|----------|
| 1/TRIVIAL | 57/LOG | 000/NULL | 000/NULL |

Explanation An X.25 permanent virtual circuit (PVC) has been attached to, but the interface is not active.

Recommended Action This message may not indicate a problem if the interface is still coming up, otherwise this message could indicate a failure in the interface state.

Module: PING

Ping Polling

This chapter contains messages belonging to the module PING, sorted into the following Types:

- [“PING: Ping Polling” on page 227](#)

For more information about Ping Polling, see the *Ping Polling of Device Reachability* chapter in the *Software Reference*.

Type: PING Ping Polling

... is not reachable (poll= ...)

Message <ip-address> is not reachable (poll=<poll-instance>)

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 58/PING | 065/PING | 001/POLL |

Explanation An IP device being polled has just failed to be reachable.

Recommended Action Investigate why the device being polled is now unreachable.

... is reachable (poll= ...)

Message <ip-address> is reachable (poll=<poll-id>)

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 58/PING | 065/PING | 001/POLL |

Explanation An IP device being polled has just become reachable.

Recommended Action No action is required.

Module: SNMP

Simple Network Management Protocol

This chapter contains messages belonging to the module SNMP, sorted into the following Types:

- [“SNMP: Simple Network Management Protocol” on page 229](#)

For more information about SNMP, see the *Simple Network Management Protocol (SNMP)* chapter in the *Software Reference*.

Type: **SNMP** Simple Network Management Protocol

SNMP request not processed

Message SNMP request not processed due to excessive memory usage

| Severity | Module | Type | Subtype |
|-------------|---------|----------|------------|
| 5/IMPORTANT | 59/SNMP | 089/SNMP | 001/MEMORY |

Explanation An incoming SNMP request could not be processed because there was insufficient system memory available or SNMP was already using all the system memory allocated to it.

Recommended Action Use the **show buffer** command to check system memory usage. Use the **show snmp** command to check for excessive polling.

SNMP trap not sent

Message SNMP Trap not sent due to excessive memory usage

| Severity | Module | Type | Subtype |
|-------------|---------|----------|------------|
| 5/IMPORTANT | 59/SNMP | 089/SNMP | 001/MEMORY |

Explanation An SNMP trap could not be sent because there was insufficient system memory available or SNMP was already using all the system memory allocated to it.

Recommended Action Use the **show buffer** command to check system memory usage. Use the **show snmp** command to check for excessive polling.

Module: SCC

Serial Communication Channels

This chapter contains messages belonging to the module SCC, sorted into the following Types:

- [“PINT: Physical Layer Interfaces” on page 231](#)

For more information about SCC, see the *Integrated Services Digital Network (ISDN)* chapter in the *Software Reference*.

Type: PINT

Physical Layer Interfaces

No more SCCs available for interface

Message No more SCCs available for interface `<interface-id>`

| Severity | Module | Type | Subtype |
|-------------|--------|----------|-----------|
| 5/IMPORTANT | 60/SCC | 002/PINT | 004/ERROR |

Explanation The software was unable to allocate:

- an HDLC channel for the specified physical interface, or
- a serial communication channel (SCC) for the specified physical interface.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Router has been warm-restarted due to SYN bus error

Message Router has been warm-restarted due to SYN bus error
`<number-of-warm-restarts>` times

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 6/URGENT | 60/SCC | 002/PINT | 003/WARN |

Explanation The router has been restarted due to an error condition on a SYN interface installed in an AT-AR040 Network Service Module (NSM).

Recommended Action No immediate action is required. There is an extremely rare error condition that can prevent operation of SYN interfaces in an AT-AR040 NSM. If this error condition occurs then it is cleared by warm restarting the router.

If this problem persists, contact your authorised Allied Telesis distributor or reseller.

SI routing table is full for interface

Message SI routing table is full for interface <*interface-id*>

| Severity | Module | Type | Subtype |
|------------|--------|----------|-----------|
| 7/CRITICAL | 60/SCC | 002/PINT | 004/ERROR |

Explanation The software was unable to configure the serial interface channel routing table for the communication channels requested on the specified interface. This indicates that a very complicated arrangement of communication channels has been requested, presumably for a PRI interface. This is very unlikely to happen.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Two warm restarts have not corrected NSM operation

Message Two warm restarts have NOT corrected NSM operation

| Severity | Module | Type | Subtype |
|------------|--------|----------|-----------|
| 7/CRITICAL | 60/SCC | 002/PINT | 004/ERROR |

Explanation A fatal error on the AT-AR040 Network Service Module (NSM) installed in a router has been detected. The router has been warm restarted twice but this has not cleared the problem. This indicates a hardware problem with an AR040 in a router.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Module: IPV6

Internet Protocol Version 6

This chapter contains messages belonging to the module IPv6, sorted into the following Types:

- ["MSG: General Messages" on page 234](#)

For more information about IPv6, see the *Internet Protocol version 6 (IPv6)* chapter in the *Software Reference*.

Type: MSG

General Messages

MLDv2 Query packet received on MLDv1 Interface

Message MLDv2 Query packet received on MLDv1 Interface:
<ipv6-interface>

| Severity | Module | Type | Subtype |
|----------|---------|---------|----------|
| 4/NOTICE | 66/IPV6 | 021/MSG | 002/WARN |

Explanation A Version 2 Multicast Listener Discovery (MLD) query was received on the specified IPv6 interface, which is configured for MLD Version 1.

Recommended Action No action is required.

MLDv1 Query packet received on MLDv2 Interface

Message MLDv1 Query packet received on MLDv2 Interface:
<ipv6-interface>

| Severity | Module | Type | Subtype |
|----------|---------|---------|----------|
| 4/NOTICE | 66/IPV6 | 021/MSG | 002/WARN |

Explanation A Version 1 Multicast Listener Discovery (MLD) query was received on the specified IPv6 interface, which is configured for MLD Version 2.

Recommended Action No action is required.

Module: ATM

Asynchronous Transfer Mode

This chapter contains messages belonging to the module ATM, sorted into the following Types:

- [“ATM: Asynchronous Transfer Mode” on page 236](#)

For more information about ATM, see the *ATM over xDSL* chapter in the *Software Reference*.

Type: ATM

Asynchronous Transfer Mode

Instance attached

Message Instance <number> attached to <interface>

| Severity | Module | Type | Subtype |
|----------|--------|--------|-----------|
| 3/INFO | 68/ATM | 76/ATM | 001/INTER |

Explanation The specified ATM instance is now attached to the specified physical interface. An ATM instance must attach to a physical instance for the ATM interface to operate. The device can attach one ATM instance per ADSL or SHDSL interface.

Recommended Action No action is required.

Instance down

Message Instance <number> over <interface> down

| Severity | Module | Type | Subtype |
|----------|--------|--------|-----------|
| 3/INFO | 68/ATM | 76/ATM | 001/INTER |

Explanation The ATM instance is no longer working because the physical interface is down.

Recommended Action No action is required if this is expected. If this is unexpected, investigate the physical interface's status by:

- using the **show adsl** or **show shdsl** command
- checking the physical connection between the device and the ATM service provider
- checking the log messages recently generated for ATM and the physical interface

Instance failed to attach

Message Instance <number> failed to attach to <interface>

| Severity | Module | Type | Subtype |
|-------------|--------|--------|-----------|
| 5/IMPORTANT | 68/ATM | 76/ATM | 001/INTER |

Explanation The specified ATM instance did not attach to the specified physical interface. This can occur when:

- the physical interface already has an instance attached
- the physical interface is not available to ATM
- an internal error has occurred on the device

Recommended Action Check that the device is correctly configured. Try configuring the ATM instance to attach to a different physical interface.

Instance rate change

Message Instance <number> L1 rate change rx:<number> kbps
tx:<number> kbps

| Severity | Module | Type | Subtype |
|----------|--------|--------|-----------|
| 3/INFO | 68/ATM | 76/ATM | 001/INTER |

Explanation The receive and transmit rates have changed for the specified ATM instance. These rates can change when:

- you reconfigure the device using the **set adsl** or **set shdsl** commands
- the service provider adjusts its transmit and receive settings to your device

Recommended Action The device retrains to the new rates when **autoretrain=on** in the **set adsl** and **set shdsl** commands. Contact your service provider if this change disrupts your service from them.

Instance up

Message Instance <number> over <interface> up

| Severity | Module | Type | Subtype |
|----------|--------|--------|-----------|
| 3/INFO | 68/ATM | 76/ATM | 001/INTER |

Explanation The specified ATM instance is now operating across the specified physical interface.

Recommended Action No action is required.

Interface created

Message Interface <*interface*> Created

| Severity | Module | Type | Subtype |
|----------|--------|--------|-----------|
| 3/INFO | 68/ATM | 76/ATM | 001/INTER |

Explanation A new ATM interface link exists on the device. ATM interfaces are created using the **add atm channel** command.

Recommended Action No action is required.

Interface destroyed

Message Interface <*interface*> Destroyed

| Severity | Module | Type | Subtype |
|----------|--------|--------|-----------|
| 3/INFO | 68/ATM | 76/ATM | 001/INTER |

Explanation The specified ATM interface link no longer exists. ATM interfaces are destroyed using the **delete atm channel** command.

Recommended Action No action is required.

Interface disabled

Message Interface <*interface*> disabled

| Severity | Module | Type | Subtype |
|----------|--------|--------|-----------|
| 3/INFO | 68/ATM | 76/ATM | 001/INTER |

Explanation The specified ATM interface link is disabled. ATM interfaces are disabled using the **disable atm** command.

Recommended Action No action is required.

Interface down

Message Interface <interface> Down

| Severity | Module | Type | Subtype |
|----------|--------|--------|-----------|
| 3/INFO | 68/ATM | 76/ATM | 001/INTER |

Explanation The specified physical interface is no longer operating. ATM cannot operate while the interface is down.

Recommended Action No action is required if this is expected. If this is unexpected, investigate the physical interface's status by:

- using the **show adsl** or **show shdsl** command
- checking the physical connection between the device and the ATM service provider
- checking the log messages recently generated for the physical interface

Interface enabled

Message Interface <interface> enabled

| Severity | Module | Type | Subtype |
|----------|--------|--------|-----------|
| 3/INFO | 68/ATM | 76/ATM | 001/INTER |

Explanation The specified ATM interface link is enabled. ATM interfaces are enabled with the **enable atm** command.

Recommended Action No action is required.

Interface up

Message Interface <interface> up

| Severity | Module | Type | Subtype |
|----------|--------|--------|-----------|
| 3/INFO | 68/ATM | 76/ATM | 001/INTER |

Explanation The specified ATM interface link is now operating.

Recommended Action No action required.

Module: DHCP

Dynamic Host Control Protocol

This chapter contains messages belonging to the module DHCP (module ID 70, DHCP for IPv4), sorted into the following Types:

- [“DHCP \(027\): Dynamic Host Control Protocol” on page 241](#)

For more information about DHCP, see the *Dynamic Host Control Protocol (DHCP)* chapter in the *Software Reference*.

For log messages about DHCP for IPv6 (module ID 117), see [“DHCP: Dynamic Host Control Protocol for IPv6” on page 243](#).

For log messages about DHCP Snooping (module ID 137), see [“DHCP: DHCP Snooping” on page 248](#).

Type: DHCP (027)

Dynamic Host Control Protocol

IP address bound to client

Message IP address *<ip-address>* bound to *<client-id>*

| Severity | Module | Type | Subtype |
|----------|---------|------|---------|
| 3/INFO | 70/DHCP | 027 | 001 |

Explanation The DHCP server has assigned the specified address to the specified client.

Recommended Action No action is required.

IP address freed by client

Message IP address *<ip-address>* freed by *<client-id>*

| Severity | Module | Type | Subtype |
|----------|---------|------|---------|
| 3/INFO | 70/DHCP | 027 | 002 |

Explanation The specified client is no longer using the specified address.

Recommended Action No action is required.

Rejected request for address

Message Rejected request for address *<ip-address>* by *<client-id>*

| Severity | Module | Type | Subtype |
|----------|---------|------|---------|
| 2/DETAIL | 70/DHCP | 027 | 003 |

Explanation The specified client requested the specified address, but the server did not assign the address to the client, because the address was not available, or was not appropriate for the VLAN that the client was attached to.

Recommended Action No action is required, unless you expected the address to be appropriate and available. If so, investigate VLAN membership and/or why the address is not available. For example, another host could be statically configured with that address, or the IP address pool could be too small.

Remote request to set network refused

Message Remote request to set <interface-name> network to <offered-network-address> refused, network in use by another interface

| Severity | Module | Type | Subtype |
|-------------|---------|------|---------|
| 5/IMPORTANT | 70/DHCP | 027 | 003 |

Explanation A client refused a DHCP offer because the IP network offered by the server was in use by another IP interface.

Recommended Action No action is required.

Module: DHCP

Dynamic Host Control Protocol for IPv6

This chapter contains messages belonging to the module DHCP (module ID 117, DHCP for IPv6), sorted into the following Types:

- [“DHCP6: DHCP for IPv6” on page 244](#)

For more information about DHCP6, see the *Dynamic Host Control Protocol for IPv6 (DHCP6)* chapter in the *Software Reference*.

For log messages about DHCP for IPv4 (module ID 70), see [“DHCP: Dynamic Host Control Protocol” on page 240](#).

For log messages about DHCP Snooping (module ID 137), see [“DHCP: DHCP Snooping” on page 248](#).

Type: DHCP6 DHCP for IPv6

Address assigned to client successfully

Message Address <ipv6-address> assigned to Client <dhcpv6-client> successfully

| Severity | Module | Type | Subtype |
|----------|-----------|-----------|----------|
| 3/INFO | 117/DHCP6 | 062/DHCP6 | 003/ADDR |

Explanation The DHCP6 client has successfully assigned the specified address to a client.

Recommended Action No action is required.

Client initiated rebind message exchange

Message Client <client-id> initiated Rebind message exchange

| Severity | Module | Type | Subtype |
|----------|-----------|-----------|----------|
| 3/INFO | 117/DHCP6 | 062/DHCP6 | 003/ADDR |

Explanation A DHCP6 client has requested a rebind message exchange, and the DHCPv6 operation was completed successfully.

Recommended Action No action is required.

Client initiated renew message exchange

Message Client <client-id> initiated Renew message exchange

| Severity | Module | Type | Subtype |
|----------|-----------|-----------|----------|
| 3/INFO | 117/DHCP6 | 062/DHCP6 | 003/ADDR |

Explanation A DHCP6 client has requested a renewal message exchange, and the DHCPv6 operation was completed successfully.

Recommended Action No action is required.

DHCP6 module has been disabled

Message The DHCP6 module has been disabled

| Severity | Module | Type | Subtype |
|----------|-----------|-----------|----------|
| 3/INFO | 117/DHCP6 | 062/DHCP6 | 001/MAIN |

Explanation DHCP6 functionality has been disabled.

Recommended Action No action is required.

DHCP6 module has been enabled

Message The DHCP6 module has been enabled

| Severity | Module | Type | Subtype |
|----------|-----------|-----------|----------|
| 3/INFO | 117/DHCP6 | 062/DHCP6 | 001/MAIN |

Explanation DHCP6 functionality has been enabled.

Recommended Action No action is required.

Message failed authentication

Message <message-type> message from <host> failed authentication

| Severity | Module | Type | Subtype |
|----------|-----------|-----------|----------|
| 3/INFO | 117/DHCP6 | 062/DHCP6 | 002/AUTH |

Explanation The message from the specified source has failed DHCP6 authentication. This could be the result of an invalid key.

Recommended Action Check that the keys have been created correctly or that the correct key is being used.

Prefix allocation to APPINTs failed

Message Prefix allocation to APPINTs failed for prefix
<ipv6-address>/<prefix-length>

| Severity | Module | Type | Subtype |
|-------------|-----------|-----------|----------|
| 5/IMPORTANT | 117/DHCP6 | 062/DHCP6 | 003/ADDR |

Explanation The device was not able to allocate an address to one of its interfaces because the prefix delegated to it did not contain enough /64 prefixes. The prefix delegated to the device and its length are given in the message.

Recommended Action No action is required.

Release for address successful

Message Release for address <ipv6-address> from <client-id>
successful

| Severity | Module | Type | Subtype |
|----------|-----------|-----------|----------|
| 3/INFO | 117/DHCP6 | 062/DHCP6 | 003/ADDR |

Explanation The DHCP6 client has successfully released an IPV6 address from use.

Recommended Action No action is required.

Request for address failed

Message Request for address of type normal on <interface-name>
failed

Request for address of type temp on <interface-name>
failed

Request for address of type delegate on <interface-name>
failed

| Severity | Module | Type | Subtype |
|----------|-----------|-----------|----------|
| 3/INFO | 117/DHCP6 | 062/DHCP6 | 003/ADDR |

Explanation The DHCP6 client has failed to obtain the address type specified by the user. The DHCPv6 Clients request or renew has failed. This could occur if:

- the client was requesting an address that was not on the correct link
- the client was attempting to renew an address for which the server had no binding, or
- the DHCPv6 server requires the use of Multicast addressing.

Recommended Action Check the configuration of both the DHCPv6 server and the client to ensure they are set up correctly.

Request for address successful

Message Request for address of type normal on <interface-name>
successful

Request for address of type temp on <interface-name>
successful

Request for address of type delegate on <interface-name>
successful

| Severity | Module | Type | Subtype |
|----------|-----------|-----------|----------|
| 3/INFO | 117/DHCP6 | 062/DHCP6 | 003/ADDR |

Explanation The DHCP6 client has successfully obtained the address type specified by the user.

Recommended Action No action is required.

Module: DHCP

DHCP Snooping

This chapter contains messages belonging to the module DHCP (module ID 137, DHCP Snooping), sorted into the following Types:

- [“DHCPS: DHCP Snooping” on page 249](#)

For more information about DHCP Snooping, see the *DHCP Snooping* chapter in the *Software Reference*.

For log messages about DHCP for IPv4 (module ID 70), see [“DHCP: Dynamic Host Control Protocol” on page 240](#).

For log messages about DHCP for IPv6 (module ID 117), see [“DHCP: Dynamic Host Control Protocol for IPv6” on page 243](#).

Type: DHCPS DHCP Snooping

Adding new entry

Message Adding new entry [chaddr <client-hardware-address>], clientIP <assigned-ip-address>, vlan<vid>, port<port-number>, serverIP <server-ip-address>, Expires <time> <date>

| Severity | Module | Type | Subtype |
|----------|----------------------|----------------------|---------|
| 3/INFO | 137/ DHCPSnooping | 083/ DHCPSnooping | 001/ADD |

Explanation A new entry has been added to the DHCP Snooping Binding database.

Recommended Action No action is required.

Deleting entry

Message Deleting entry [chaddr <client-hardware-address>], clientIP <assigned-ip-address>, vlan<vid>, port<port-number>, serverIP <server-ip-address>

| Severity | Module | Type | Subtype |
|----------|----------------------|----------------------|------------|
| 3/INFO | 137/ DHCPSnooping | 083/ DHCPSnooping | 002/DELeTe |

Explanation An entry has been deleted from the DHCP Snooping Binding database.

Recommended Action No action is required.

Deleting timed out entry

Message Deleting timed out entry,
 [chaddr <client-hardware-address>],
 clientIP <assigned-ip-address>, vlan<vid>,
 port<port-number>, serverIP <server-ip-address>

| Severity | Module | Type | Subtype |
|----------|-----------------------|-----------------------|------------|
| 3/INFO | 137/ DHCP Snooping | 083/ DHCP Snooping | 002/DELETE |

Explanation An entry has timed out and been deleted from the DHCP Snooping Binding database.

Recommended Action No action is required.

Updating entry

Message Updating entry [chaddr <client-hardware-address>],
 clientIP <assigned-ip-address>, vlan<vid>,
 port<port-number>, serverIP <server-ip-address>,
 Expires <time> <date>

| Severity | Module | Type | Subtype |
|----------|-----------------------|-----------------------|------------|
| 3/INFO | 137/ DHCP Snooping | 083/ DHCP Snooping | 003/Update |

Explanation An existing entry in the DHCP Snooping Binding database has been updated. Entries in the database are indexed using the client hardware address (**chaddr**), so this message indicates that an entry in the database with the specified **chaddr** already existed. Changed fields are marked by a trailing “(*)”.

Recommended Action No action is required.

Error adding entry

Message Error adding entry [chaddr <client-hardware-address>]. Adding another entry will exceed the configured MAXLEASES of <max-leases> for port <port-number>

| Severity | Module | Type | Subtype |
|----------|-----------------------|-----------------------|----------|
| 4/NOTICE | 137/ DHCP Snooping | 083/ DHCP Snooping | 004/FAIL |

Explanation An entry could not be added to the DHCP Snooping database because it would exceed the maximum number of leases.

Recommended Action If the maximum lease number is set to the correct value for the port, this message means that an unexpected host attempted to use the port and was stopped by DHCP snooping. In that case, no action is required. However, if the host was expected, you may need to increase the maximum number of leases available for the specified port using the command:

```
set dhcp snooping port=port-number maxleases=max-leases
```

Error adding or updating entry

Message Error adding or updating entry [chaddr <client-hardware-address>]. There are no available DHCP Snooping classifiers for port <port-number>

| Severity | Module | Type | Subtype |
|----------|-----------------------|-----------------------|----------|
| 4/NOTICE | 137/ DHCP Snooping | 083/ DHCP Snooping | 004/FAIL |

Explanation An entry could not be added to the DHCP Snooping database or updated because there are no DHCP classifiers available.

Recommended Action Ensure that the specified port has a QoS policy attached that contains a classifier specifying either DHCP Snooping as the IP Source Address, or DHCP Snooping as the MAC Source Address or both. For example:

```
create classifier=10 ipsaddr=dhcp snooping
```

ARP discarded - incorrect format

Message ARP Discarded, incorrect format, src MAC=<mac-address>, src IP=<ip-address>, vlan=<vid>, port=<port-number>

| Severity | Module | Type | Subtype |
|----------|-----------------------|-----------------------|--------------------|
| 4/NOTICE | 137/ DHCP Snooping | 083/ DHCP Snooping | 005/ARP discard |

Explanation An ARP request was discarded without being processed because it was not in the correct format.

Recommended Action No action is required.

ARP discarded - sender not found

Message ARP Discarded, sender not found in DHCP Snoop DB, src MAC=<mac-address>, src IP=<ip-address>, vlan=<vid>, port=<port-number>

| Severity | Module | Type | Subtype |
|----------|-----------------------|-----------------------|--------------------|
| 4/NOTICE | 137/ DHCP Snooping | 083/ DHCP Snooping | 005/ARP discard |

Explanation An ARP request was discarded without being processed because the sender was not in the DHCP snooping database.

Recommended Action No action is required.

ARP discarded - sender not allowed

Message ARP Discarded, sender found, but not allowed, src MAC=<mac-address>, src IP=<ip-address>, vlan=<vid>, port=<port-number>

| Severity | Module | Type | Subtype |
|----------|-----------------------|-----------------------|--------------------|
| 4/NOTICE | 137/ DHCP Snooping | 083/ DHCP Snooping | 005/ARP discard |

Explanation An ARP request was discarded without being processed because the sender's MAC address and IP address did not match an entry in the DHCP snooping database.

Recommended Action No action is required.

Module: ENCO

Encryption and Compression Services

This chapter contains messages belonging to the module ENCO, sorted into the following Types:

- ["ENCO: Encryption and Compression" on page 254](#)

For more information about ENCO, see the *Encryption Services* or *Compression and Encryption Services* chapter in the *Software Reference*.

Type: ENCO Encryption and Compression

1141 Encryption Processor Found

Message 1141 Encryption Processor Found

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 004/PAC |

Explanation The 1141 Security processor has been located.

Recommended Action No action is required.

1141 Encryption Processor Initialised

Message 1141 Encryption Processor Initialised

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 004/PAC |

Explanation The 1141 security processor has successfully initialised.

Recommended Action No action is required.

1141 Encryption Processor PK Test Failed

Message 1141 Encryption Processor PK Test Failed

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 004/PAC |

Explanation The 1141 security processor has failed its internal testing of the Public Key engine.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

1141 Encryption Processor Test Failed

Message 1141 Encryption Processor Test Failed

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 004/PAC |

Explanation The 1141 security processor has failed its internal testing of the encryption process.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

1141 Hash Processor Test Failed

Message 1141 Hash Processor Test Failed

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 004/PAC |

Explanation The 1141 security processor has failed its internal testing of the hash process.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

7711 Encryption Test Failed

Message 7711 Encryption Test Failed

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 005/MAC |

Explanation The 7711 Security and compression processor has failed its internal testing of the encryption process.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

7711 Found. Initialisation started

Message 7711 Found. Initialisation started

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 005/MAC |

Explanation The 7711 Security and compression processor has been located.

Recommended Action No action is required.

7711 Initialisation Successful

Message 7711 Initialisation Successful

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 005/MAC |

Explanation The 7711 security processor has successfully initialised.

Recommended Action No action is required.

7711 RAM Test Failed

Message 7711 RAM Test Failed

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 005/MAC |

Explanation The 7711 Security and compression processor has failed its internal testing of the onboard RAM.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

7711 Testing Failed

Message 7711 Testing Failed

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 005/MAC |

Explanation The 7711 Security and compression processor has failed its internal testing.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Initialised

Message 9711 Initialised

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor has been successfully initialised.

Recommended Action No action is required.

9711 Start Pass-thru Test 2

Message 9711 Start Pass-thru Test 2

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor passthru test 2 has started.

Recommended Action No action is required.

9711 Startup Test Completed

Message 9711 Startup Test Completed

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor has been successfully initialised.

Recommended Action No action is required.

9711 Startup Test [CRAM Test Completed]

Message 9711 Startup Test [CRAM Test Completed]: <code> <code>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor CRAM test has completed successfully.

Recommended Action No action is required.

9711 Startup Test [CRAM Test Start]

Message 9711 Startup Test [CRAM Test Start]

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor CRAM test has started.

Recommended Action No action is required.

9711 Startup Test Started

Message 9711 Startup Test Started

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor has been located and internal testing has started.

Recommended Action No action is required.

9711 Startup Test Fail: config Reg

Message 9711 Startup Test Fail: config Reg: <code> (<code>)

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor has failed its internal testing when reading the configuration register.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Startup Test Fail: chip ID

Message 9711 Startup Test Fail: chip ID: <chip-id>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor has failed its internal testing when reading the chip ID.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Startup Test Fail: CRAM test

Message 99711 Startup Test Fail: CRAM test: <code>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor has failed its internal testing of the CRAM.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Startup Test Fail: CRAM test: Cmd In Prog

Message 9711 Startup Test Fail: CRAM test <code> (A): Cmd In Prog

9711 Startup Test Fail: CRAM test <code> (B): Cmd In Prog

9711 Startup Test Fail: CRAM test <code> (C): Cmd In Prog

9711 Startup Test Fail: CRAM test <code> (D): Cmd In Prog

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor has failed its internal testing of the CRAM.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Startup Test Fail: CRAM test : Cmd In Prog: PC

Message 9711 Startup Test Fail: CRAM test <code> (A): Cmd In Prog:
PC

9711 Startup Test Fail: CRAM test <code> (B): Cmd In Prog:
PC

9711 Startup Test Fail: CRAM test <code> (C): Cmd In Prog:
PC

9711 Startup Test Fail: CRAM test <code> (D): Cmd In Prog:
PC

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor has failed its internal testing of the CRAM.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Startup Test Fail: CRAM test : Data

Message 9711 Startup Test Fail: CRAM test <code> (B): Data <code>
(<code> <code>)

9711 Startup Test Fail: CRAM test <code> (D): Data <code>
(<code> <code>)

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor has failed its internal testing of the CRAM.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Startup Test Fail: CRAM test : Dest Count

Message 9711 Startup Test Fail: CRAM test <code> (B): Dest Count <code>

9711 Startup Test Fail: CRAM test <code> (D): Dest Count <code>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor has failed its internal testing of the CRAM.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Startup Test Fail: CRAM test : Result Flags

Message 9711 Startup Test Fail: CRAM test <code> (A): Result Flags <code>

9711 Startup Test Fail: CRAM test <code> (B): Result Flags <code>

9711 Startup Test Fail: CRAM test <code> (C): Result Flags <code>

9711 Startup Test Fail: CRAM test <code> (D): Result Flags <code>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor has failed its internal testing of the CRAM.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Startup Test Fail: CRAM test : Rslt In Prog

Message 9711 Startup Test Fail: CRAM test <code> (A): Rslt In Prog

9711 Startup Test Fail: CRAM test <code> (B): Rslt In Prog

9711 Startup Test Fail: CRAM test <code> (C): Rslt In Prog

9711 Startup Test Fail: CRAM test <code> (D): Rslt In Prog

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor has failed its internal testing of the CRAM.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Startup Test Fail: CRAM test : Rslt In Prog: PR

Message 9711 Startup Test Fail: CRAM test <code> (A): Rslt In Prog:
PR

9711 Startup Test Fail: CRAM test <code> (B): Rslt In Prog:
PR

9711 Startup Test Fail: CRAM test <code> (C): Rslt In Prog:
PR

9711 Startup Test Fail: CRAM test <code> (C): Rslt In Prog:
PR

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor has failed its internal testing of the CRAM.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Startup Test Fail: CRAM test : Rslt Not Ready

Message 9711 Startup Test Fail: CRAM test <code> (A): Rslt Not Ready

9711 Startup Test Fail: CRAM test <code> (B): Rslt Not Ready

9711 Startup Test Fail: CRAM test <code> (C): Rslt Not Ready

9711 Startup Test Fail: CRAM test <code> (D): Rslt Not Ready

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor has failed its internal testing of the CRAM.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Startup Test Fail: CRAM test : Source Count

Message 9711 Startup Test Fail: CRAM test <code> (A): Source Count <code>

9711 Startup Test Fail: CRAM test <code> (C): Source Count <code>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor has failed its internal testing of the CRAM.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Startup Test Fail: CRAM test : Status

Message 9711 Startup Test Fail: CRAM test <code> (A): Status <code>

9711 Startup Test Fail: CRAM test <code> (B): Status <code>

9711 Startup Test Fail: CRAM test <code> (C): Status <code>

9711 Startup Test Fail: CRAM test <code> (D): Status <code>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor has failed its internal testing of the CRAM.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Startup Test Fail: fifo config Reg

Message 9711 Startup Test Fail: fifo config Reg: <code> (<code>)

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor has failed its internal testing when reading the FIFO configuration register.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Startup Test Fail: Pass Thru test 2

Message 9711 Startup Test Fail: Pass Thru test 2

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor passthru test 2 has failed.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Startup Test [Pass Thru Test 1 Completed]

Message 9711 Startup Test [Pass Thru Test 1 Completed]

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor passthru test 1 has completed successfully.

Recommended Action No action is required.

9711 Startup Test [Pass Thru Test 1 Start]

Message 9711 Startup Test [Pass Thru Test 1 Start]

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor passthru test 1 has started.

Recommended Action No action is required.

9711 Startup Test [Pass Thru Test 2 Completed]

Message 9711 Startup Test [Pass Thru Test 2 Completed]

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor passthru test 2 has completed successfully.

Recommended Action No action is required.

9711 Startup Test [Pass Thru Test 2 Start]

Message 9711 Startup Test [Pass Thru Test 2 Start]

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor passthru test 2 has started.

Recommended Action No action is required.

9711 Startup Test Fail: Pass Thru test: Cmd In Prog

Message 9711 Startup Test Fail: Pass Thru test 1: Cmd In Prog

9711 Startup Test Fail: Pass Thru test 2: Cmd In Prog

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor passthru test has failed.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Startup Test Fail: Pass Thru test: Cmd In Prog: PC

Message 9711 Startup Test Fail: Pass Thru test 1: Cmd In Prog: PC

9711 Startup Test Fail: Pass Thru test 2: Cmd In Prog: PC

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor passthru test has failed.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Startup Test Fail: Pass Thru test: Data Error

Message 9711 Startup Test Fail: Pass Thru test 1: Data Error:
<code>

9711 Startup Test Fail: Pass Thru test 2: Data Error:
<code>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor passthru test has failed.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Startup Test Fail: Pass Thru test: Fail

Message 9711 Startup Test Fail: Pass Thru test 1: Fail: <code>
<code> <code>

9711 Startup Test Fail: Pass Thru test 2: Fail: <code>
<code> <code>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor passthru test has failed.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Startup Test Fail: Pass Thru test: Incomplete

Message 9711 Startup Test Fail: Pass Thru test 1: Incomplete:
<code>

9711 Startup Test Fail: Pass Thru test 2: Incomplete:
<code>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor passthru test has failed.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Startup Test Fail: Pass Thru test: Result Ready/ Incomplete

Message 9711 Startup Test Fail: Pass Thru test 2: Result Ready/
Incomplete: <code>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor passthru test 2 has failed.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Startup Test Fail: Pass Thru test state check: Bad result

Message 9711 Startup Test Fail: Pass Thru test state check: Bad result: `<code>`

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor passthru test 1 has failed.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Startup Test Fail: Pass Thru test state check: Rslt In Prog

Message 9711 Startup Test Fail: Pass Thru test state check: Rslt In Prog: `<code>`

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor passthru test 1 has failed.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Startup Test Fail: Pass Thru test state check: Source Count

Message 9711 Startup Test Fail: Pass Thru test state check: Source Count: `<code>`

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor passthru test 1 has failed.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

9711 Startup Test Fail: Pass Thru test state check: status

Message 9711 Startup Test Fail: Pass Thru test state check: status: `<code>`

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 001/9711 |

Explanation The 9711 compression processor passthru test 1 has failed.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Cryptek Chip Startup Test Failed

Message Cryptek Chip Startup Test Failed

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 003/CRYP |

Explanation The Cryptek security processor has failed its internal testing.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Cryptek Chip Startup Test Passed

Message Cryptek Chip Startup Test Passed

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 003/CRYP |

Explanation The Cryptek security processor has passed its internal testing.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

PAC Encryption Test Failed

Message PAC Encryption Test Failed

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 004/PAC |

Explanation The PAC security and compression card has failed its internal testing of the encryption process.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

PAC Found. Initialisation started

Message PAC Found. Initialisation started

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 004/PAC |

Explanation The PAC security and compression card has been located.

Recommended Action No action is required.

PAC Initialisation Successful

Message PAC Initialisation Successful

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 004/PAC |

Explanation The PAC security and compression card has successfully initialised.

Recommended Action No action is required.

PAC Public Key Test Failed

Message PAC Public Key Test Failed

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 004/PAC |

Explanation The PAC security and compression card has failed its internal testing of the Public Key Engine.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

PAC RAM Test Failed

Message PAC RAM Test Failed

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 004/PAC |

Explanation The PAC security and compression card has failed its internal testing of the onboard RAM.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

STAC SW History Allocated

Message STAC SW History Allocated - <number> channels

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 002/STAC |

Explanation STAC compression history channels have been allocated.

Recommended Action No action is required.

STAC SW Initialised

Message STAC SW Initialised

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 73/ENCO | 031/ENCO | 002/STAC |

Explanation STAC compression software has been initialised.

Recommended Action No action is required.

Module: SSH

Secure Shell

This chapter contains messages belonging to the module SSH, sorted into the following Types:

- ["MSG: General Messages" on page 274](#)
- ["SSH: Secure Shell" on page 275](#)
- ["SCP: Secure Copy" on page 279](#)

For more information about SSH, see the *Secure Shell* chapter in the *Software Reference*.

For more information about SCP, see the *Secure Shell* and *Managing Configuration Files and Software Versions* chapters in the *Software Reference*.

Type: MSG

General Messages

Started re-generation of SSH Server key

Message Started re-generation of SSH Server key

| Severity | Module | Type | Subtype |
|----------|--------|---------|----------|
| 3/INFO | 75/SSH | 021/MSG | 001/INFO |

Explanation A new Secure Shell (SSH) server key is being generated.

Recommended Action No action is required.

Type: SSH Secure Shell

Disconnecting SSH session

Message Disconnecting SSH session from *<ip-address>* *<reason>*

| Severity | Module | Type | Subtype |
|----------|--------|---------|----------|
| 3/INFO | 75/SSH | 033/SSH | 008/DISC |

Explanation A Secure Shell (SSH) session to or from the IP address has been disconnected for the specified reason.

Recommended Action If this is expected behaviour, no action is required. If this is an unexpected and unwelcome event, then investigate why the session has gone down.

Rejecting SSH connection - incompatible versions

Message Rejecting SSH connection from *<ip-address>* incompatible versions

| Severity | Module | Type | Subtype |
|----------|--------|---------|----------|
| 3/INFO | 75/SSH | 033/SSH | 007/RJCT |

Explanation A Secure Shell (SSH) session was rejected because the other device is using an incompatible version of the SSH protocol.

Recommended Action Check the version of the SSH protocol on the remote device. Version 1.5 should be used.

Rejecting SSH connection from ... no resources

Message Rejecting SSH connection from *<ip-address>* no resources

| Severity | Module | Type | Subtype |
|----------|--------|---------|----------|
| 3/INFO | 75/SSH | 033/SSH | 007/RJCT |

Explanation A Secure Shell (SSH) session was rejected due to lack of resources.

Recommended Action Encryption and authentication resources can be checked with the SHOW ENCO command. If no resources are available, check that the required feature licences are installed.

Secure Shell Server has been enabled

Message Secure Shell Server has been enabled

| Severity | Module | Type | Subtype |
|----------|--------|---------|-----------|
| 3/INFO | 75/SSH | 033/SSH | 004/ENBLD |

Explanation The Secure Shell server has been enabled.

Recommended Action No action is required.

Secure Shell Server has been disabled

Message Secure Shell Server has been disabled

| Severity | Module | Type | Subtype |
|----------|--------|---------|-----------|
| 3/INFO | SSH | 033/SSH | 005/DSBLD |

Explanation The Secure Shell server has been disabled.

Recommended Action No action is required.

Secure Shell user added

Message Secure Shell user <user-name> added

| Severity | Module | Type | Subtype |
|----------|--------|---------|---------|
| 3/INFO | 75/SSH | 033/SSH | 001/ADD |

Explanation A new user has been added to the Secure Shell (SSH) user database.

Recommended Action No action is required.

Secure Shell user configuration modified

Message Secure Shell user <user-name> configuration modified

| Severity | Module | Type | Subtype |
|----------|--------|---------|---------|
| 3/INFO | 75/SSH | 033/SSH | 003/SET |

Explanation A user has been modified in the Secure Shell (SSH) user database.

Recommended Action No action is required.

Secure Shell user deleted

Message Secure Shell user <user-name> deleted

| Severity | Module | Type | Subtype |
|----------|--------|---------|---------|
| 3/INFO | 75/SSH | 033/SSH | 002/DEL |

Explanation A user has been deleted from the Secure Shell (SSH) user database.

Recommended Action No action is required.

SSH connection from ... accepted

Message SSH connection from <ip-address> accepted. User - <user-name>

| Severity | Module | Type | Subtype |
|----------|--------|---------|----------|
| 3/INFO | 75/SSH | 033/SSH | 006/ACPT |

Explanation A Secure Shell (SSH) session has been accepted.

Recommended Action No action is required.

SSH connection from ... denied maximum number of failed logins

Message SSH connection from <ip-address> denied maximum number of failed logins exceeded. User - <user-name>

| Severity | Module | Type | Subtype |
|----------|--------|---------|----------|
| 4/NOTICE | 75/SSH | 033/SSH | 007/RJCT |

Explanation A Secure Shell (SSH) session was rejected because the user has exceeded the maximum number of failed logins.

Recommended Action Check the user's status using the command:

```
show ssh user
```

and confirm the reason for the login failure with the user. Re-enable user if a password mistake was made.

SSH connection from ... failed authentication due to . ..

Message SSH connection from <*ip-address*> failed authentication due to <*failure-reason*>. User - <*user-name*>

| Severity | Module | Type | Subtype |
|----------|--------|---------|----------|
| 4/NOTICE | 75/SSH | 033/SSH | 007/RJCT |

Explanation A Secure Shell (SSH) session was rejected because of a user authentication failure.

Recommended Action No action is required.

Type: SCP Secure Copy

Aborted by user

Message Aborted by user

| Severity | Module | Type | Subtype |
|----------|--------|---------|------------------------|
| 2/Detail | 75/SSH | 087/SCP | 005/DNLFL 006/UPLFL |

Explanation The file transfer has been aborted by the user.

Recommended Action No action is required.

Damaged file loaded

Message Damaged file loaded

| Severity | Module | Type | Subtype |
|----------|--------|---------|-----------|
| 2/Detail | 75/SSH | 087/SCP | 005/DNLFL |

Explanation The file loaded onto the device, but appears damaged.

Recommended Action The source file may be damaged. Check that you are loading the correct file, and that the file is not corrupt.

Data send failed

Message Data send failed

| Severity | Module | Type | Subtype |
|----------|--------|---------|-----------|
| 2/Detail | 75/SSH | 087/SCP | 006/UPLFL |

Explanation The SCP session or network connection has been disrupted, and the file could not be transferred to the SCP server.

Recommended Action Check the connection between the device and the SCP server, then retry the file transfer.

File already exists

Message File already exists - *<filename>*

| Severity | Module | Type | Subtype |
|----------|--------|---------|------------------------|
| 2/Detail | 75/SSH | 087/SCP | 003/CLIFL 004/SERFL |

Explanation The file cannot be copied, as a file by that name already exists on the device.

Recommended Action Check the filename is correct, or remove the existing file before loading the new file.

File contains binary data

Message File contains binary data

| Severity | Module | Type | Subtype |
|----------|--------|---------|-----------|
| 2/Detail | 75/SSH | 087/SCP | 005/DNLFL |

Explanation The download failed because the destination filename has a text-type file extension, but the file contains binary data. A file containing binary data cannot be saved as a text-type file.

Recommended Action No action is required.

File does not exist

Message File does not exist - *<filename>*

| Severity | Module | Type | Subtype |
|----------|--------|---------|------------------------|
| 2/Detail | 75/SSH | 087/SCP | 003/CLIFL 004/SERFL |

Explanation The file cannot be copied, as there is no file by that name on the device.

Recommended Action Check the filename is correct and that the file exists.

File is not uploadable

Message File is not uploadable - *<filename>*

| Severity | Module | Type | Subtype |
|----------|--------|---------|------------------------|
| 2/Detail | 75/SSH | 087/SCP | 003/CLIFL 004/SERFL |

Explanation The file cannot be uploaded from the device to the SCP server, because the file is not allowed to be copied.

Recommended Action No action is required.

Filename is invalid

Message Filename is invalid - *<filename>*

| Severity | Module | Type | Subtype |
|----------|--------|---------|------------------------|
| 2/Detail | 75/SSH | 087/SCP | 003/CLIFL 004/SERFL |

Explanation The filename is invalid on the device.

Recommended Action Check the specified filename is correct.

File open failed

Message File open failed - *<filename>*

| Severity | Module | Type | Subtype |
|----------|--------|---------|------------------------|
| 2/Detail | 75/SSH | 087/SCP | 003/CLIFL 004/SERFL |

Explanation The file did not open successfully.

Recommended Action Make sure that the file exists, and that there is enough free space on the device, then retry.

File read failed

Message File read failed

| Severity | Module | Type | Subtype |
|----------|--------|---------|-----------|
| 2/Detail | 75/SSH | 087/SCP | 006/UPLFL |

Explanation The file could not be read from the device.

Recommended Action Check that the file exists on the device and retry.

File type not allowed

Message File type is not allowed - <filename>

| Severity | Module | Type | Subtype |
|----------|--------|---------|-------------------------------------|
| 2/Detail | 75/SSH | 087/SCP | 003/CLIFL 004/SERFL 005/DNLFL |

Explanation Files of this type cannot be loaded onto the device.

Recommended Action No action is required.

File write failed

Message File write failed

| Severity | Module | Type | Subtype |
|----------|--------|---------|-----------|
| 2/Detail | 75/SSH | 087/SCP | 005/DNLFL |

Explanation The file could not be written to the device.

Recommended Action Check that there is no file with the same name on the device, and that the device has enough free space.

Flash is currently busy

Message Flash is currently busy

| Severity | Module | Type | Subtype |
|----------|--------|---------|-----------|
| 2/Detail | 75/SSH | 087/SCP | 005/DNLFL |

Explanation The file could not be downloaded because the flash on the device was busy.

Recommended Action Flash may be compacting or another process is reading from flash, or writing to flash. Wait until the current flash operation is complete, then re-enter the command. Use the **show flash** command to see flash status.

Insufficient space to store file

Message Insufficient space to store file

| Severity | Module | Type | Subtype |
|----------|--------|---------|-----------|
| 2/Detail | 75/SSH | 087/SCP | 005/DNLFL |

Explanation The file could not be downloaded because the device does not have enough free space.

Recommended Action Delete some files then re-enter the command.

Invalid command or option

Message Invalid command or option - *<command>*

| Severity | Module | Type | Subtype |
|----------|--------|---------|-----------|
| 2/Detail | 75/SSH | 087/SCP | 004/SERFL |

Explanation Secure Copy failed to start the Secure Shell server because an invalid command or option was specified by the remote client.

Recommended Action Re-enter a valid command or option.

Invalid S-record

Message Invalid S-record

| Severity | Module | Type | Subtype |
|----------|--------|---------|-----------|
| 2/Detail | 75/SSH | 087/SCP | 005/DNLFL |

Explanation The firmware image failed to download because the file has an invalid S-record format.

Recommended Action Check that the firmware image is not damaged or corrupt.

Permission denied

Message Permission denied - <user>

| Severity | Module | Type | Subtype |
|----------|--------|---------|-----------|
| 2/Detail | 75/SSH | 087/SCP | 004/SERFL |

Explanation The user does not have the privileges required to transfer files to or from the device.

Recommended Action No action is required.

Remote error

Message Remote error - <message>

| Severity | Module | Type | Subtype |
|----------|--------|---------|------------------------|
| 2/Detail | 75/SSH | 087/SCP | 005/DNLFL 006/UPLFL |

Explanation The file could not be loaded due to an error on the remote SCP server.

Recommended Action Check:

- the configuration and status of the remote SCP server
- that the file and directory exists on the server if loading from the server
- that the file does not exist if loading to the server
- the permissions used are correct

SCP service disabled

Message SCP service has been disabled

| Severity | Module | Type | Subtype |
|----------|--------|---------|-----------|
| 3/INFO | 75/SSH | 087/SCP | 002/DSBLD |

Explanation The Secure Copy service has been disabled. The SSH server will reject incoming SCP connections.

Recommended Action No action is required

SCP service enabled

Message SCP service has been enabled

| Severity | Module | Type | Subtype |
|----------|--------|---------|-----------|
| 3/INFO | 75/SSH | 087/SCP | 001/ENBLD |

Explanation The Secure Copy service has been enabled. The SSH server will accept incoming SCP connections.

Recommended Action No action is required.

SYSR busy, try later

Message SYSR is busy, try later

| Severity | Module | Type | Subtype |
|----------|--------|---------|-----------|
| 2/Detail | 75/SSH | 087/SCP | 005/DNLFL |

Explanation The file failed to download because the System Redundancy feature (SYSR) is busy.

Recommended Action Try the load after SYSR synchronisation is complete. Check the SYS status with the **show system sysr** command.

Module: FIRE

Firewall

This chapter contains messages belonging to the module Firewall, sorted into the following Types:

- ["VINT: Virtual Interfaces" on page 287](#)
- ["FIRE: Firewall" on page 288](#)
- ["ACCO: Accounting" on page 328](#)

For more information about the firewall, see the *Firewall* chapter in the *Software Reference*.

Type: VINT

Virtual Interfaces

DoD interface activated by IP traffic

Message `<interface-name>: DoD interface activated by IP traffic`

| Severity | Module | Type | Subtype |
|----------|-------------|----------|--------------|
| 3/INFO | 77/FIREWALL | 005/VINT | 006/ACTIVATE |

Explanation Indicates that a dial on demand IP interface has come up.

Recommended Action No action is required.

Type: FIRE Firewall

An error occurred when deleting RTSP secondary entries

Message An error occurred when deleting RTSP secondary entries

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-----------|
| 6/URGENT | 77/FIREWALL | 036/FIRE | 018/ENBLD |

Explanation The Firewall failed to find session records for all data channels associated with an RTSP control channel when deleting an RTSP session record.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Attempting to use non-policy interface

Message `<date> <time> <source-ip-address> attempting to use non-policy interface`

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 6/URGENT | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A device has started sending traffic that either passes from an interface specified in a firewall policy to an interface that is not in the policy, or vice-versa.

Recommended Action Examine the data flow in question to determine if it is valid traffic. If it is valid, then consider adding the non-policy interface to the firewall policy. If it is not valid, then take the necessary steps to prevent it from being sent.

Automatic client file full

Message Automatic client file full. <number> clients not stored since <time>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 026/SIPALG |

Explanation The SIP ALG has reached the maximum number of clients it is configured to support in automatic client management mode. Clients who initiate sessions above this limit are not managed by the SIP ALG automatic client management.

This log is rate-limited to once every 20 minutes after the first log is generated. The rate limit is reset after a 20 minute period has passed in which the SIP clients have not exceeded the client support limit.

Recommended Action Consider raising the limit higher by using the **maxautoclients** parameter in the **set firewall sipalg** command. If this level of SIP activity is unexpected, investigate the SIP clients by using the command:

```
show firewall sipalg autoclient summary
```

To see whether the sessions are initiated from the private or public side of the firewall, use the command:

```
show firewall sipalg
```

Automatic mapping file format invalid

Message Automatic mapping file format invalid: <file-header>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 026/SIPALG |

Explanation The SIP ALG cannot access the client database stored in flash memory, because the file is incorrectly formatted. This file is created by the SIP ALG when it is in automatic client management mode, and is used to recover the SIP ALG firewall sessions after the device reboots or restarts.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Automatic mapping file contained invalid entries

Message Automatic mapping file contained <number> invalid entries

| Severity | Module | Type | Subtype |
|----------|-------------|----------|------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 026/SIPALG |

Explanation There is a conflict between the current configuration of the firewall and the list of SIP ALG firewall sessions held in the client database found in flash memory. The conflicting SIP ALG sessions have not been restored.

This conflict occurs if the device restarts, and the configuration script for the firewall does not match the configuration that the firewall had before the restart.

Recommended Action Check the firewall configuration is correct for your current network.

Bad FTP port command

Message bad FTP port command

| Severity | Module | Type | Subtype |
|----------|-------------|----------|------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 009/INDTCP |

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 013/OUTDTCP |

Explanation An FTP port command was rejected either due to incorrect formatting or insufficient firewall resources.

Recommended Action If the specified source address is that of a local device contact the administrator of that device. Otherwise, no action is required.

Bad global address of 0.0.0.0

Message Bad global address of 0.0.0.0

| Severity | Module | Type | Subtype |
|----------|-------------|----------|---------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 013/OUTDTCP |
| | | | 014/OUTDUCP |
| | | | 015/OUTDICMP |
| | | | 016/OUTDOTHER |

Explanation An outgoing packet was unable to be NATed and forwarded because the public IP interface is currently unnumbered.

Recommended Action Assign an IP address to the public interface or check the status of the address allocation mechanism in use.

Bad ICMP forward

Message Bad ICMP forward

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 003/INDICMP |

| Severity | Module | Type | Subtype |
|----------|-------------|----------|--------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 007/OUTDICMP |

Explanation An ICMP packet was dropped as the policy does not permit this ICMP type to be forwarded.

Recommended Action No action is required.

Bad ICMP message type to pass

Message bad ICMP message type to pass

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 011/INDICMP |

| Severity | Module | Type | Subtype |
|----------|-------------|----------|--------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 015/OUTDICMP |

Explanation The packet was dropped because the firewall policy is not configured to allow this type of ICMP packet.

Recommended Action If packet was expected to be permitted, check the Firewall configuration. Otherwise, no action is required.

Bad IDENT port command

Message bad IDENT port command

| Severity | Module | Type | Subtype |
|----------|-------------|----------|------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 009/INDTCP |

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 013/OUTDTCP |

Explanation The packet was dropped because the firewall was unable to find a matching record for the session specified in the IDENT request.

Recommended Action If the specified source address is that of a local device contact the administrator of that device. Otherwise, no action is required.

Bad IP option

Message Bad IP option

| Severity | Module | Type | Subtype |
|----------|-------------|----------|--------------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 009/INDTCP |
| | | | 010/INDUDP |
| | | | 011/INDICMP |
| | | | 012/INDOTHER |

| Severity | Module | Type | Subtype |
|----------|-------------|----------|---------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 013/OUTDTCP |
| | | | 014/OUTDUDP |
| | | | 015/OUTDICMP |
| | | | 016/OUTDOTHER |

Explanation The packet was dropped because it contained an IP option that is not permitted by the firewall policy.

Recommended Action No action is required.

Bad policy setup

Message Bad policy setup

| Severity | Module | Type | Subtype |
|----------|-------------|----------|---|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 009/INDTCP 010/INDUDP 011/INDICMP 012/INDOTHER |

| Severity | Module | Type | Subtype |
|----------|-------------|----------|---|
| 3/INFO | 77/FIREWALL | 036/FIRE | 013/OUTDTCP 014/OUTDUCP 015/OUTDICMP 016/OUTDOTHER |

Explanation A packet was dropped because the interface that received the packet is not in the same policy as the interface that the packet would be forwarded on.

Recommended Action If this packet is to be supported the policies need to be modified so that both interfaces appear in both policies. Appropriate rules will also be required.

Denial of service attack is underway

Message *<date> <time> Denial of service attack from <attack-source-ip-address> is underway*

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 6/URGENT | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A denial of service attack from the specified source IP has started.

Recommended Action If this source IP seems to be a regular offender, then consider adding a rule or IP filter to block all traffic from this source, or even try to work out the ISP from which the traffic originates, and urge them to take steps to prevent re-occurrences of this attack.

Denial of service attack is finished

Message <date> <time> Denial of service attack from <attack-source-ip-address> is finished

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A denial of service attack from the specified source IP has stopped.

Recommended Action No action is required.

Failed to split TCP packet

Message Failed to split TCP packet (hdr <packet-header-length>

Failed to split TCP packet (payload <packet-data-length>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|------------|
| 6/URGENT | 77/FIREWALL | 036/FIRE | 009/INDTCP |

Explanation Firewall stateful inspection of a TCP packet required that the packet be divided into two separate packets. An internal error related to the packet header occurred during the process of dividing the packet.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Firewall enabled

Message <date> <time> Firewall enabled

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-----------|
| 6/URGENT | 77/FIREWALL | 036/FIRE | 018/ENBLD |

Explanation The Firewall feature is enabled.

Recommended Action No action is required.

Firewall event logging <reason-for-event>

Message <reason-for-event>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 017/ATTK |
| 6/ACTIVE | | | |

Explanation This message is output as part of firewall event logging when there is a reason defined.

Recommended Action Read this message in conjunction with other log messages for the same firewall event.

Firewall disabled

Message <date> <time> Firewall disabled

| Severity | Module | Type | Subtype |
|----------|-------------|----------|------------|
| 6/URGENT | 77/FIREWALL | 036/FIRE | 019/DISBLD |

Explanation The Firewall feature is disabled.

Recommended Action No action is required.

Firewall policy configuration changed

Message Firewall policy=<policy-name> configuration changed

| Severity | Module | Type | Subtype |
|----------|-------------|----------|--------------|
| 2/DETAIL | 77/FIREWALL | 036/FIRE | 021/CONFCHNG |

Explanation Some aspect of the configuration of the specified firewall policy has been changed.

Recommended Action No action is required.

Firewall Policy Rule List added

Message Firewall Policy <policy-name> Rule <rule-number> List added

| Severity | Module | Type | Subtype |
|----------|-------------|----------|--------------|
| 2/DETAIL | 77/FIREWALL | 036/FIRE | 021/CONFCHNG |

Explanation A new IP address list or MAC address list has been added to the specified rule on the specified policy.

Recommended Action No action is required.

Firewall Policy Rule deleted

Message Firewall Policy <policy-name> Rule <rule-number> deleted

| Severity | Module | Type | Subtype |
|----------|-------------|----------|--------------|
| 2/DETAIL | 77/FIREWALL | 036/FIRE | 021/CONFCHNG |

Explanation The specified rule in the specified Firewall policy has been deleted.

Recommended Action No action is required.

Firewall Policy SMTP domain set changed

Message Firewall Policy <policy-name> SMTP domain set changed

| Severity | Module | Type | Subtype |
|----------|-------------|----------|--------------|
| 2/DETAIL | 77/FIREWALL | 036/FIRE | 021/CONFCHNG |

Explanation The SMTP domain configured for this firewall policy has been changed.

Recommended Action No action is required.

Firewall Policy session timeout changed

Message Firewall Policy <*policy-name*> session timeout(s) changed

| Severity | Module | Type | Subtype |
|----------|-------------|----------|--------------|
| 2/DETAIL | 77/FIREWALL | 036/FIRE | 021/CONFCHNG |

Explanation One or more of the session timeout values (TCP, UDP, other) have been changed for this firewall policy.

Recommended Action No action is required.

Firewall Policy attack configuration changed

Message Firewall Policy <*policy-name*> attack configuration changed

| Severity | Module | Type | Subtype |
|----------|-------------|----------|--------------|
| 2/DETAIL | 77/FIREWALL | 036/FIRE | 021/CONFCHNG |

Explanation The parameters associated with an attack type have been changed for this firewall policy.

Recommended Action No action is required.

Firewall Policy Rule changed

Message Firewall Policy <*policy-name*> Rule <*rule-number*> changed

| Severity | Module | Type | Subtype |
|----------|-------------|---------|--------------|
| 2/DETAIL | 77/FIREWALL | 36/FIRE | 021/CONFCHNG |

Explanation One or more of the parameters associated with the specified rule in this firewall policy have been changed.

Recommended Action No action is required.

Firewall: raw dump of packet data

Message <hexadecimal-characters>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|---|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 009/INDTCP 010/INDUDP 011/INDICMP 012/INDOTHER |
| Severity | Module | Type | Subtype |
| 3/INFO | 77/FIREWALL | 036/FIRE | 013/OUTDTCP 014/OUTDUCP 015/OUTDICMP 016/OUTDOTHER |

Explanation A raw dump of packet data for a denied packet. Refer to the following log messages for more information:

- [“Bad ICMP forward” on page 291](#)
- [“Bad policy setup” on page 293](#)
- [“Policy rejected” on page 311](#)
- [“No free memory slots” on page 308](#)
- [“TCP session started” on page 320](#)
- [“UDP flow started” on page 323](#)
- [“ICMP flow started” on page 302](#)
- [“Other IP flow started” on page 309](#)
- [“TCP bad sequence number” on page 318](#)
- [“TCP bad open handshake” on page 319](#)
- [“Bad global address of 0.0.0.0” on page 290](#)
- [“FTP listen session started” on page 301](#)

Recommended Action Inspect data to identify causes.

Flash auto write is not enabled

Message Flash auto write is not enabled

| Severity | Module | Type | Subtype |
|----------|-------------|----------|------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 026/SIPALG |

Explanation The SIP ALG could not write to flash because auto write is disabled. The SIP ALG stores a static version of its client database on flash when it is in automatic client management mode. This version is used to restore the SIP firewall sessions in case of a restart or reboot of the device.

This event is only logged once, regardless of how many times the SIP ALG attempts to write to flash.

Recommended Action To enable auto write, use the command:

```
enable flash autowrite
```

If you did not disabled flash autowrite, check the territory settings for the device, because this is disabled by default when the territory is set to Japan.

Flow rejected by policy rule

Message flow rejected by policy rule

| Severity | Module | Type | Subtype |
|----------|-------------|----------|--------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 009/INDTCP |
| | | | 010/INDUDP |
| | | | 012/INDOTHER |

| Severity | Module | Type | Subtype |
|----------|-------------|----------|---------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 013/OUTDTCP |
| | | | 014/OUTDUDP |
| | | | 016/OUTDOTHER |

Explanation The packet was dropped because there was either a specific deny rule, or no allow rule that matched this packet.

Recommended Action If packet was expected to be permitted, check the Firewall configuration. Otherwise, no action is required.

Flow rejected as source of current attack

Message flow rejected as source of current attack

| Severity | Module | Type | Subtype |
|----------|-------------|----------|--------------------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 009/INDTCP 010/INDUDP |

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------------------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 013/OUTDTCP 014/OUTDUDP |

Explanation The packet was dropped because the source of the packet was identified as the source of an attack.

Recommended Action If the specified source address is that of a local device, then contact the administrator of that device. If this source IP seems to a regular offender, then consider adding a rule or IP filter to block all traffic from this source, or even try to work out the ISP from which the traffic originates, and urge them to take steps to prevent re-occurrences of this attack.

Fragment attack is finished

Message <date> <time> Fragment attack from
<attack-source-ip-address> is finished

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A fragment attack from the specified source IP has stopped.

Recommended Action No action is required.

Fragment attack is underway

Message <date> <time> Fragment attack from <attack-source-ip-address> is underway

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 6/URGENT | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A fragment attack from the specified source IP has started.

Recommended Action If this source IP seems to be a regular offender, then consider adding a rule or IP filter to block all traffic from this source, or even try to work out the ISP from which the traffic originates, and urge them to take steps to prevent re-occurrences of this attack.

FTP listen session started

Message FTP listen session started

| Severity | Module | Type | Subtype |
|----------|-------------|----------|------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 001/INATCP |

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-------------|
| 2/DETAIL | 77/FIREWALL | 036/FIRE | 005/OUTATCP |

Explanation The FTP application gateway has created a session to allow an FTP data channel to pass through the Firewall, in response to a PORT or 227 message sent by an FTP control channel.

Recommended Action No action is required.

Host scan is finished

Message <date> <time> Host scan from <attack-source-ip-address> is finished

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A host scan attack from the specified source IP address has stopped.

Recommended Action No action is required.

Host scan is underway

Message <date> <time> Host scan from <attack-source-ip-address> is underway

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 6/URGENT | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A host scan attack from the specified source IP address has started.

Recommended Action If this source IP seems to a regular offender, then consider adding a rule or IP filter to block all traffic from this source, or even try to work out the ISP from which the traffic originates, and urge them to take steps to prevent re-occurrences of this attack.

ICMP flow started

Message ICMP flow started

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 003/INAICMP |

| Severity | Module | Type | Subtype |
|----------|-------------|----------|--------------|
| 2/DETAIL | 77/FIREWALL | 036/FIRE | 007/OUTAICMP |

Explanation A new ICMP flow has been allowed through the Firewall.

Recommended Action No action is required.

ICMP - Source ... Dest ... Type ... Code ...

Message ICMP - Source <source-ip-address> Dest <destination-ip-address> Type <icmp-type> Code <icmp-code>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 003/INAICMP |

Explanation An ICMP packet of the specified ICMP type and code with the specified source and destination IP addresses, travelling inwards was allowed.

Recommended Action No action is required.

Message ICMP - Source <source-ip-address> Dest <destination-ip-address> Type <icmp-type> Code <icmp-code>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|--------------|
| 2/DETAIL | 77/FIREWALL | 036/FIRE | 007/OUTAICMP |

Explanation An ICMP packet of the specified ICMP type and code with the specified source and destination IP addresses, travelling outwards was allowed.

Recommended Action No action is required.

Message ICMP - Source <source-ip-address> Dest <destination-ip-address> Type <icmp-type> Code <icmp-code>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 011/INDICMP |

Explanation An ICMP packet of the specified ICMP type and code with the specified source and destination IP addresses, travelling inwards was denied.

Recommended Action No action is required.

Message ICMP - Source <source-ip-address> Dest <destination-ip-address> Type <icmp-type> Code <icmp-code>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|--------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 011/OUTDICMP |

Explanation An ICMP packet of the specified ICMP type and code with the specified source and destination IP addresses, travelling outwards was denied.

Recommended Action No action is required.

Invalid TCP flag(s)

Message Invalid TCP flag(s)

| Severity | Module | Type | Subtype |
|----------|-------------|----------|------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 009/INDTCP |

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 013/OUTDTCP |

Explanation The packet was dropped by the firewall because the flag values specified in the TCP packet header were invalid.

Recommended Action If the specified source address is that of a local device contact the administrator of that device. The device may be infected by a virus or have faulty software. Otherwise, no action is required.

Invalid L3 packet header

Message Invalid L3 packet header

| Severity | Module | Type | Subtype |
|----------|-------------|----------|--|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 009/INDTCP 010/INDUDP 011/INDICMP |
| Severity | Module | Type | Subtype |
| 3/INFO | 77/FIREWALL | 036/FIRE | 013/OUTDTCP 014/OUTDUDP 015/OUTDICMP |

Explanation The packet was dropped by the firewall because the protocol header of the ICMP, TCP or UDP packet was either incomplete or absent.

Recommended Action If the specified source address is that of a local device contact the administrator of that device. The device may be infected by a virus or have faulty software. Otherwise, no action is required.

IPSPOOF attack is finished

Message `<date> <time> IPSPOOF attack from
<attack-source-ip-address> is finished`

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation An IP spoof attack from the specified source IP has stopped.

Recommended Action No action is required.

IPSPOOF attack is underway

Message `<date> <time> IPSPOOF attack from
<attack-source-ip-address> is underway`

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 6/URGENT | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation An IP spoof attack from the specified source IP has started.

Recommended Action If this source IP seems to a regular offender, then consider adding a rule or IP filter to block all traffic from this source, or even try to work out the ISP from which the traffic originates, and urge them to take steps to prevent re-occurrences of this attack.

LAND attack is finished

Message `<date> <time> LAND attack is finished`

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A LAND attack from the specified source IP has stopped.

Recommended Action No action is required.

LAND attack is underway

Message `<date> <time> LAND attack is underway`

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 6/URGENT | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A LAND attack from the specified source IP has started.

Recommended Action If this source IP seems to a regular offender, then consider adding a rule or IP filter to block all traffic from this source, or even try to work out the ISP from which the traffic originates, and urge them to take steps to prevent re-occurrences of this attack.

Lookup of known flow failed

Message lookup of known flow failed

| Severity | Module | Type | Subtype |
|----------|-------------|----------|--------------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 011/INDICMP |

Explanation The packet was dropped because the firewall was unable to match the packet in the payload of an ICMP destination unreachable, source quench, time to live exceeded or parameter problem message, to any recorded session.

Recommended Action No action is required.

No available outward NAT address

Message no available outward NAT address

| Severity | Module | Type | Subtype |
|----------|-------------|----------|---------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 013/OUTDTCP |
| | | | 014/OUTDUDP |
| | | | 015/OUTDICMP |
| | | | 016/OUTDOTHER |

Explanation The packet was dropped because it attempted to pass from a private interface to a public interface where NAT is required, but there is no address translation configured for the packets source IP address.

Recommended Action If packet was expected to be permitted, check the Firewall configuration. Otherwise, no action is required.

No free memory slots

Message No free memory slots

| Severity | Module | Type | Subtype |
|----------|-------------|----------|---|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 009/INDTCP 010/INDUDP 011/INDICMP 012/INDOTHER |

| Severity | Module | Type | Subtype |
|----------|-------------|----------|---|
| 3/INFO | 77/FIREWALL | 036/FIRE | 013/OUTDTCP 014/OUTDUCP 015/OUTDICMP 016/OUTDOTHER |

Explanation The packet was dropped because the Firewall has used up all the memory that is available to it for tracking sessions.

Recommended Action Enter the command:

```
show firewall session
```

Look for sessions that have not been used for a long time, i.e. sessions whose "seconds to deletion" value is a lot less than the configured timeout value for the protocol. If there are a large number of session in this state, consider decreasing the timeout values for the protocol affected using the command:

```
set firewall policy
```

Otherwise, contact your authorised Allied Telesis distributor or reseller.

New active TCP session

Message The first active TCP session has been created

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-----------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 025/NOSES |

Explanation The first new TCP session has been created, either since the last active TCP session was closed, or if no TCP sessions had been previously created.

Recommended Action No action is required.

No active TCP session

Message No active TCP session remains

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-----------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 024/NEWSE |

Explanation There are no active TCP sessions remaining.

Recommended Action No action is required.

Other IP flow started

Message Other IP flow started

| Severity | Module | Type | Subtype |
|----------|-------------|----------|---------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 004/INAOOTHER |

| Severity | Module | Type | Subtype |
|----------|-------------|----------|---------------|
| 2/DETAIL | 77/FIREWALL | 036/FIRE | 008/OUTAOTHER |

Explanation A new packet flow has been allowed through the Firewall. Refer to previous log message specifying the packet details to determine the packets protocol.

Recommended Action No action is required.

Packet participating in SYN attack

Message packet participating in SYN attack

| Severity | Module | Type | Subtype |
|----------|-------------|----------|------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 009/INDTCP |

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 013/OUTDTCP |

Message packet participating in SYN attack

Explanation The packet was dropped because it was identified as part of a TCP SYN flood.

Recommended Action If the specified source address is that of a local device contact the administrator of that device. Otherwise, no action is required. Consider added a deny rule to permanently block traffic from this device.

Ping of Death attack is finished

Message <date> <time> Ping of Death attack from <attack-source-ip-address> is finished

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A ping of death attack from the specified source IP has stopped.

Recommended Action No action is required.

Ping of Death attack is underway

Message <date> <time> Ping of Death attack from <attack-source-ip-address> is underway

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 6/URGENT | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A ping of death attack from the specified source IP has started.

Recommended Action If this source IP seems to be a regular offender, then consider adding a rule or IP filter to block all traffic from this source, or even try to work out the ISP from which the traffic originates, and urge them to take steps to prevent re-occurrences of this attack.

Policy destroyed

Message <date> <time> Policy destroyed

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-------------|
| 6/URGENT | 77/FIREWALL | 036/FIRE | 020/DESTROY |

Explanation A Firewall policy has been destroyed

Recommended Action No action is required.

Policy rejected

Message Policy rejected

| Severity | Module | Type | Subtype |
|----------|-------------|----------|---|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 009/INDTCP 010/INDUDP 011/INDICMP 012/INDOTHER |

| Severity | Module | Type | Subtype |
|----------|-------------|----------|---|
| 3/INFO | 77/FIREWALL | 036/FIRE | 013/OUTDTCP 014/OUTDUCP 015/OUTDICMP 016/OUTDOTHER |

Explanation The packet was dropped because it was denied by the policy (either an explicit deny rule or implicitly via the “deny all incoming” rule).

Recommended Action No action is required.

Port scan is finished

Message <date> <time> Port scan from <attack-source-ip-address> is finished

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A port scan attack from the specified source IP address has stopped.

Recommended Action No action is required.

Port scan is underway

Message <date> <time> Port scan from <attack-source-ip-address> is underway

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 6/URGENT | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A port scan attack from the specified source IP address has started.

Recommended Action If this source IP seems to a regular offender, then consider adding a rule or IP filter to block all traffic from this source, or even try to work out the ISP from which the traffic originates, and urge them to take steps to prevent re-occurrences of this attack.

Protocol - Source ... Dest ...

Message Protocol <protocol-number> - Source <source-ip-address>
Dest <destination-ip-address>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|---------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 004/INAOOTHER |

Explanation A packet with the specified protocol, source IP and destination IP, travelling inwards was allowed.

Recommended Action No action is required.

Message Protocol <protocol-number> - Source <source-ip-address>
Dest <destination-ip-address>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|---------------|
| 2/DETAIL | 77/FIREWALL | 036/FIRE | 008/OUTAOTHER |

Explanation A packet with the specified protocol, source IP and destination IP, travelling outwards was allowed.

Recommended Action No action is required.

Message Protocol <protocol-number> - Source <source-ip-address>
Dest <destination-ip-address>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|--------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 012/INDOTHER |

Explanation A packet with the specified protocol, source IP and destination IP, travelling inwards was denied.

Recommended Action No action is required.

Message Protocol <protocol-number> - Source <source-ip-address>
Dest <destination-ip-address>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|---------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 016/OUTDOTHER |

Explanation A packet with the specified protocol, source IP and destination IP, travelling outwards was denied.

Recommended Action No action is required.

Removed cookie

Message Removed cookie from (<source-ip-address>) <domain-name>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|---------|
| 6/URGENT | 77/FIREWALL | 036/FIRE | |

Explanation A request to set a cookie, by a server with the specified domain name, was blocked by the HTTP proxy.

Recommended Action No action is required.

Session licence found but device only supports lower limit

Message <number> session licence found, but device only supports <number> sessions

| Severity | Module | Type | Subtype |
|----------|-------------|----------|--------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 021/CONFCHNG |

Explanation The firewall session licence loaded on the device allows more sessions than the device can support. The number of concurrent firewall sessions will be limited to the number the device can support.

Recommended Action No action is required. To discuss whether a different feature licence would be more suitable for your device, contact your authorised Allied Telesis distributor or reseller.

Session request has been rejected

Message Session request from <ip-address> has been rejected <number> times by policy <policy-name> limitrule <rule-id-number>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-------------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 27/FIREWALL_LIMIT |

Explanation The firewall has rejected a session initiated by a device because the device has reached the maximum concurrent sessions it is allowed to initiate. This limit is set using the **add firewall policy limitrule** command.

Recommended Action No action is required.

SMTP Smurf Amp attack is finished

Message <date> <time> SMTP Smurf Amp attack from <attack-source-ip-address> is finished

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A smurf amp attack from the specified source IP has stopped.

Recommended Action No action is required.

SMTP Smurf Amp attack is underway

Message <date> <time> SMTP Smurf Amp attack from <attack-source-ip-address> is underway

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 6/URGENT | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A smurf amp attack from the specified source IP address has started.

Recommended Action If this source IP seems to be a regular offender, then consider adding a rule or IP filter to block all traffic from this source, or even try to work out the ISP from which the traffic originates, and urge them to take steps to prevent re-occurrences of this attack.

SMTP spam attack is finished

Message <date> <time> SMTP spam attack from <attack-source-ip-address> is finished

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A mail client with the specified IP address has stopped trying to send spam emails.

Recommended Action No action is required.

SMTP spam attack is underway

Message <date> <time> SMTP spam attack from <attack-source-ip-address> is underway

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 6/URGENT | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A mail client with the specified IP address has started trying to send spam emails.

Recommended Action If this source IP seems to a regular offender, then consider adding a rule or IP filter to block all traffic from this source, or even try to work out the ISP from which the traffic originates, and urge them to take steps to prevent re-occurrences of this attack.

SMTP third party relay attack is finished

Message <date> <time> SMTP third party relay attack from <attack-source-ip-address> is finished

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A mail client with the specified IP address has stopped trying to use the private mail server as a third party relay.

Recommended Action No action is required.

SMTP third party relay attack is underway

Message <date> <time> SMTP third party relay attack from <attack-source-ip-address> is underway

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 6/URGENT | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A mail client with the specified IP address has started trying to use the private mail server as a third party relay.

Recommended Action Consider adding a rule or IP filter to block all traffic from this source.

SMURF attack is finished

Message <date> <time> SMURF attack from <attack-source-ip-address> is finished

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A smurf attack from the specified source IP has stopped.

Recommended Action No action is required.

SMURF attack is underway

Message <date> <time> SMURF attack from <attack-source-ip-address> is underway

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 6/URGENT | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A smurf attack from the specified source IP has started.

Recommended Action If this source IP seems to a regular offender, then consider adding a rule or IP filter to block all traffic from this source, or even try to work out the ISP from which the traffic originates, and urge them to take steps to prevent re-occurrences of this attack.

Spoofed destination address

Message Spoofed destination address

| Severity | Module | Type | Subtype |
|----------|-------------|----------|--------------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 009/INDTCP |
| | | | 010/INDUDP |
| | | | 011/INDICMP |
| | | | 012/INDOTHER |

Explanation The packet was targeted at a private side address that is hidden from the public side by a NAT (Network Address Translation) or a proxy.

Recommended Action If this source IP seems to a regular offender, then consider adding a rule or IP filter to block all traffic from this source, or even try to work out the ISP from which the traffic originates, and urge them to take steps to prevent re-occurrences of this attack.

stopped attempts to use non-policy interface

Message <date> <time> <source-ip-address> stopped attempts to use non-policy interface

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A device has stopped sending traffic that either passes from an interface specified in a firewall policy to an interface that is not in the policy, or vice-versa.

Recommended Action No action is required.

SYN attack from is finished

Message <date> <time> SYN attack from <attack-source-ip-address> is finished

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A TCP SYN attack from the specified source IP has stopped.

Recommended Action No action is required.

SYN attack is underway

Message <date> <time> SYN attack from <attack-source-ip-address> is underway

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 6/URGENT | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A TCP SYN attack from the specified source IP has started.

Recommended Action If this source IP seems to be a regular offender, then consider adding a rule or IP filter to block all traffic from this source, or even try to work out the ISP from which the traffic originates, and urge them to take steps to prevent re-occurrences of this attack.

TCP attack using tiny fragments is finished

Message <date> <time> TCP attack using tiny fragments from <attack-source-ip-address> is finished

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A TCP fragment attack from the specified source IP has stopped.

Recommended Action No action is required.

TCP attack using tiny fragments is underway

Message <date> <time> TCP attack using tiny fragments from <attack-source-ip-address> is underway

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 6/URGENT | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A TCP fragment attack has been started from the specified source IP.

Recommended Action If this source IP seems to be a regular offender, then consider adding a rule or IP filter to block all traffic from this source, or even try to work out the ISP from which the traffic originates, and urge them to take steps to prevent re-occurrences of this attack.

TCP bad sequence number

Message TCP bad sequence number

| Severity | Module | Type | Subtype |
|----------|-------------|----------|------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 009/INDTCP |

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-------------|
| 2/DETAIL | 77/FIREWALL | 036/FIRE | 013/OUTDTCP |

Explanation A TCP packet was dropped because stateful inspection determined that the packet's sequence number was inconsistent with the other packets in the session. The remote device may be faulty or a malicious device may be trying to hijack the TCP session.

Recommended Action If this occurs regularly, attempt to contact the administrator of the remote device or consider adding a rule or IP filter to block packets from this source.

TCP bad open handshake

Message TCP bad open handshake

| Severity | Module | Type | Subtype |
|----------|-------------|----------|------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 009/INDTCP |

| Severity | Module | Type | Subtype |
|----------|-------------|----------|--------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 0013/OUTDTCP |

Explanation A TCP packet was dropped because stateful inspection determined that the flag values in the packet were inappropriate. The remote device may be faulty or a malicious device may be trying to disrupt the TCP session.

Recommended Action If this occurs regularly attempt to contact the administrator of the remote device.

TCP FIN, RST or ACK for non-existing flow

Message TCP FIN, RST or ACK for non-existing flow

| Severity | Module | Type | Subtype |
|----------|-------------|----------|------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 009/INDTCP |

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 013/OUTDTCP |

Explanation The packet was dropped because it contained TCP flags that are invalid for the first packet in a TCP session and there was no record of an existing session.

Recommended Action No action is required.

TCP open failed

Message TCP open failed

| Severity | Module | Type | Subtype |
|----------|-------------|----------|------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 009/INDTCP |

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 013/OUTDTCP |

Explanation The TCP session record was timed out and deleted because the server failed to respond to a SYN packet.

Recommended Action If the specified destination address is that of a local device contact the administrator of that device. Otherwise, no action is required.

TCP session started

Message TCP session started

| Severity | Module | Type | Subtype |
|----------|-------------|----------|------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 001/INATCP |

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-------------|
| 2/DETAIL | 77/FIREWALL | 036/FIRE | 005/OUTATCP |

Explanation A new TCP session has been allowed through the Firewall.

Recommended Action No action is required

TCP - Source ... Dest ...

Message TCP - Source <source-ip-address>:<source-port> Dest <destination-ip-address>:<destination-port>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 001/INATCP |

Explanation A TCP packet with the specified source and destination IP addresses, and source and destination TCP ports, travelling in the inwards direction has been allowed.

Recommended Action No action is required.

Message TCP - Source <source-ip-address>:<source-port> Dest <destination-ip-address>:<destination-port>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-------------|
| 2/DETAIL | 77/FIREWALL | 036/FIRE | 005/OUTATCP |

Explanation A TCP packet with the specified source and destination IP addresses, and source and destination TCP ports, travelling in the outwards direction has been allowed.

Recommended Action No action is required.

Message TCP - Source <source-ip-address>:<source-port> Dest <destination-ip-address>:<destination-port>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 009/INDTCP |

Explanation A TCP packet with the specified source and destination IP addresses, and source and destination TCP ports, travelling in the inwards direction has been denied.

Recommended Action No action is required.

Message TCP - Source <source-ip-address>:<source-port> Dest <destination-ip-address>:<destination-port>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 013/OUTDTCP |

Explanation A TCP packet with the specified source and destination IP addresses, and source and destination TCP ports, travelling in the outwards direction has been denied

Recommended Action No action is required.

TCP SYN query failed

| Severity | Module | Type | Subtype |
|----------|-------------|----------|------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 009/INDTCP |

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 013/OUTDTCP |

Message TCP SYN query failed

Explanation If the initiator of the TCP session is a local device contact the administrator of that device. Otherwise, no action is required.

Traffic attempting to use a non-policy interface

Message Traffic attempting to use a non-policy interface

| Severity | Module | Type | Subtype |
|----------|-------------|----------|--------------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 009/INDTCP |
| | | | 010/INDUDP |
| | | | 011/INDICMP |
| | | | 012/INDOTHER |

| Severity | Module | Type | Subtype |
|----------|-------------|----------|---------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 013/OUTDTCP |
| | | | 014/OUTDUDP |
| | | | 015/OUTDICMP |
| | | | 016/OUTDOTHER |

Explanation The packet was dropped because it attempted to either access a firewall interface from a non-firewall interface or access a non-firewall interface from a firewall interface.

Recommended Action Ensure all IP interfaces on the device are present in the Firewall policy and carefully define the permitted behaviour for each interface.

UDP attack is finished

Message <date> <time> UDP attack from <attack-source-ip-address> is finished

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A UDP attack from the specified source IP has stopped.

Recommended Action No action is required.

UDP attack is underway

Message <date> <time> UDP attack from <attack-source-ip-address> is underway

| Severity | Module | Type | Subtype |
|----------|-------------|----------|----------|
| 6/URGENT | 77/FIREWALL | 036/FIRE | 017/ATTK |

Explanation A UDP attack from the specified source IP has started.

Recommended Action If this source IP seems to be a regular offender, then consider adding a rule or IP filter to block all traffic from this source, or even try to work out the ISP from which the traffic originates, and urge them to take steps to prevent re-occurrences of this attack.

UDP flow started

Message UDP flow started

| Severity | Module | Type | Subtype |
|----------|-------------|----------|------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 002/INAUDP |

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-------------|
| 2/DETAIL | 77/FIREWALL | 036/FIRE | 006/OUTAUDP |

Explanation A new UDP flow has been allowed through the Firewall.

Recommended Action No action is required.

UDP - Source ... Dest ...

Message UDP - Source <source-ip-address>:<source-port> Dest <destination-ip-address>:<destination-port>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 002/INAUDP |

Explanation A UDP packet with the specified source and destination IP addresses, and source and destination UDP ports, travelling in the inwards direction has been allowed.

Recommended Action No action is required.

Message UDP - Source <source-ip-address>:<source-port> Dest <destination-ip-address>:<destination-port>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-------------|
| 2/DETAIL | 77/FIREWALL | 036/FIRE | 006/OUTAUDP |

Explanation A UDP packet with the specified source and destination IP addresses, and source and destination UDP ports, travelling in the outwards direction has been allowed.

Recommended Action No action is required.

Message UDP - Source <source-ip-address>:<source-port> Dest <destination-ip-address>:<destination-port>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 010/INDUDP |

Explanation A UDP packet with the specified source and destination IP addresses, and source and destination UDP ports, travelling in the inwards direction has been denied.

Recommended Action No action is required.

Message UDP - Source <source-ip-address>:<source-port> Dest <destination-ip-address>:<destination-port>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 014/OUTDUDP |

Explanation A UDP packet with the specified source and destination IP addresses, and source and destination UDP ports, travelling in the outwards direction has been denied.

Recommended Action No action is required.

Unable to allocate unique ID

Message unable to allocate unique ID

| Severity | Module | Type | Subtype |
|----------|-------------|----------|--------------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 009/INDTCP |
| | | | 010/INDUDP |
| | | | 011/INDICMP |
| | | | 012/INDOTHER |

| Severity | Module | Type | Subtype |
|----------|-------------|----------|---------------|
| 3/INFO | 77/FIREWALL | 036/FIRE | 013/OUTDTCP |
| | | | 014/OUTDUDP |
| | | | 015/OUTDICMP |
| | | | 016/OUTDOTHER |

Explanation The packet was dropped because the firewall was unable to handle it, as the maximum number of simultaneous sessions already existed.

Recommended Action Enter the command:

```
show firewall session
```

Look for sessions that have not been used for a long time, i.e. sessions whose "seconds to deletion" value is a lot less than the configured timeout value for the protocol. If there are a large number of session in this state, consider decreasing the timeout values for the protocol affected using the command:

```
set firewall policy
```

Otherwise, contact your authorised Allied Telesis distributor or reseller.

Unable to allocate unique global IP

Message unable to allocate unique global IP

| Severity | Module | Type | Subtype |
|----------|-------------|----------|---|
| 3/INFO | 77/FIREWALL | 036/FIRE | 013/OUTDTCP 014/OUTDUDP 015/OUTDICMP 016/OUTDOTHER |

Explanation The packet was dropped because it needed to be NATed, but there was no free global IP address in the address pool.

Recommended Action If these messages appear frequently and users are experiencing delays in accessing the internet, increase the size of the global IP address pool in the Firewall NAT configuration where possible. If it is not possible to increase the size of the global IP address pool, consider using enhanced NAT which only requires a single global IP address and can be used by a very large group of users.

UPnP port mapping added

Message `<date> <time> UPnP port mapping added <protocol>
srcport=<source-port> dstport=<destination-port>
interIP=<private-ip-address>`

| Severity | Module | Type | Subtype |
|----------|-------------|----------|--------------------------|
| 4/NOTICE | 77/FIREWALL | 036/FIRE | 001/INATCP 002/INAUDP |

Explanation A UPnP port mapping was added to map packets with the specified characteristic through to a private side.

Recommended Action No action is required.

URL: blocked

Message URL:<blocked-url> blocked from <source-ip-address>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|---------|
| 6/URGENT | 77/FIREWALL | 036/FIRE | |

Explanation A URL requested by a device with the specified source IP was blocked by the HTTP proxy because the URL is not permitted by the policy.

Recommended Action No action is required.

URL: blocked on keyword

Message URL:<*blocked-url*> blocked on keyword from
<*source-ip-address*>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|---------|
| 6/URGENT | 77/FIREWALL | 036/FIRE | |

Explanation A URL requested by a device with the specified source IP was blocked by the HTTP proxy because it contains a keyword that is not permitted by the policy.

Recommended Action No action is required.

Type: ACCO Accounting

Flow traffic ...

Message Flow traffic out *<number-outgoing-packets>*:
<number-outgoing-octets> in *<number-incoming-packets>*:
<number-incoming-octets>

| Severity | Module | Type | Subtype |
|----------|-------------|----------|---------|
| 3/INFO | 77/FIREWALL | 037/ACCO | 003/END |

Explanation The amount of data that was exchanged by the packet flow described in the previous log message.

Recommended Action No action is required.

Source ... Dest ... Flow started

Message *<protocol>* - Source *<source-ip-address>*:*<source-port>* Dest
<destination-ip-address>:*<destination-port>* Flow started
<global-ip-address>:*<global-port>*

| Severity | Module | Type | Subtype |
|----------|-------------|----------|-----------|
| 3/INFO | 77/FIREWALL | 037/ACCO | 001/START |

Explanation A packet flow with the specified characteristics has started and is being monitored by the Firewall.

Recommended Action No action is required.

Source ... Dest ... Flow terminated

Message `<protocol> - Source <source-ip-address>:<source-port> Dest
<destination-ip-address>:<destination-port> Flow
terminated <global-ip-address>:<global-port>`

| Severity | Module | Type | Subtype |
|----------|-------------|----------|---------|
| 3/INFO | 77/FIREWALL | 037/ACCO | 003/END |

Explanation A packet flow with the specified characteristics, which was being monitored by the Firewall, has stopped.

Recommended Action No action is required.

Module: IPSEC

IP Security

This chapter contains messages belonging to the module IPSEC, sorted into the following Types:

- [“IPSEC: IP Security” on page 331](#)

For more information about IPsec, see the *IP Security (IPsec)* chapter in the *Software Reference*.

Type: IPSEC IP Security

Cannot establish connection

Message Cannot establish connection - licensed limit of <number> VPN(s) reached

| Severity | Module | Type | Subtype |
|----------|----------|----------|---------|
| 4/NOTICE | 81/IPSEC | 042/IPSC | 001/MSG |

Explanation The VPN tunnel could not be created, because this would exceed the number of concurrent VPN connections allowed with the current feature license.

Recommended Action Wait until another connection has closed, then retry. To force a policy's connection to close, use the **reset ipsec policy** command for the specific policy. To arrange a feature licence for a higher tier, contact your authorised Allied Telesis distributor or reseller.

Inbound process discard

Message Inbound process discard: Interface number <ipsec-interface>, Policy <ipsec-policy-name>

| Severity | Module | Type | Subtype |
|----------|----------|----------|-----------|
| 2/DETAIL | 81/IPSEC | 042/IPSC | 003/OUERR |

Explanation During inbound IPsec processing a packet was discarded as specified by a policy action. IPsec has denied the traffic due to a matching policy with a deny action.

Recommended Action No action is required.

Inbound packet discarded

Message Inbound ESP packet discarded: src <source-ip-address>
 dst <destination-ip-address>
 [spi <security-parameter-index>]
 [seqNum <sequence-number>] <reasons-for-discard>

Inbound AH packet discarded: src <source-ip-address>
 dst <destination-ip-address>
 [spi <security-parameter-index>]
 [seqNum <sequence-number>] <reasons-for-discard>

Inbound IPCOMP packet discarded: src <source-ip-address>
 dst <destination-ip-address>
 [cpi <compression-parameter-index>] <reasons-for-discard>

| Severity | Module | Type | Subtype |
|----------|----------|----------|---------|
| 4/NOTICE | 81/IPSEC | 042/IPSC | 001/MSG |

Explanation This message indicates that during IPSEC processing an inbound ESP, AH or IPCOMP packet was discarded. Detailed information of the packet and reasons for discard are logged.

Recommended Action Investigate the given reasons.

Inbound process fail

Message Inbound process fail: Interface number <ipsec-interface>,
 Policy <ipsec-policy-name>

| Severity | Module | Type | Subtype |
|----------|----------|----------|-----------|
| 2/DETAIL | 81/IPSEC | 042/IPSC | 003/OUERR |

Explanation During inbound IPSEC processing, the processing for a packet failed. This may be because of the IPsec policy configuration, or because a failure has occurred in the processing of the packet protocols.

Recommended Action Check the IPsec policy configuration for incorrect action or selectors. If the configuration is correct, initiate debugging of packet traffic using the command:

```
enable ipsec policy debug
```

Inbound process no policy

Message Inbound process no policy: Interface number `<ipsec-interface-number>`, protocol `<packet-header-protocol>`, spi `<security-parameter-index>`, dest IP addr `<destination-ip-address>`

| Severity | Module | Type | Subtype |
|----------|----------|----------|-----------|
| 2/DETAIL | 81/IPSEC | 042/IPSC | 003/OUERR |

Explanation During inbound IPSEC processing, an IPSEC packet was received which did not match a local policy.

Recommended Action Check IPsec policy configuration for incorrect action or selectors.

Inbound process soft expiry

Message Inbound process soft expiry: Interface number `<ipsec-interface>`, Policy `<ipsec-policy-name>`

| Severity | Module | Type | Subtype |
|----------|----------|----------|-----------|
| 2/DETAIL | 81/IPSEC | 042/IPSC | 003/OUERR |

Explanation An IPsec policy SA bundle has reached its soft expiry lifetime limit. IPsec will attempt to renegotiate a new bundle.

Recommended Action No action is required.

Cannot establish connection - limit reached

Message Cannot establish connection - licensed limit of `<number>` VPN(s) reached

| Severity | Module | Type | Subtype |
|----------|----------|----------|---------|
| 4/NOTICE | 81/IPSEC | 042/IPSC | 001/MSG |

Explanation The VPN tunnel could not be created because this would exceed the licensed number of concurrent VPN connections.

Recommended Action Wait until another connection has closed, then retry. To arrange a feature license for a higher tier, please contact your authorised Allied Telesis distributor or reseller.

Outbound packet discarded

Message Outbound packet discarded: Interface number *<ipsec-interface>*, Policy *<policy-name>*

| Severity | Module | Type | Subtype |
|----------|----------|----------|---------|
| 2/DETAIL | 81/IPSEC | 042/IPSC | 001/MSG |

Explanation During outbound IPSEC processing, a packet was discarded as specified by a policy action. IPSEC has denied the traffic due to a matching policy with a deny action.

Recommended Action No action is required.

Message Outbound ESP packet discarded: src *<source-ip-address>* dst *<destination-ip-address>* [spi *<security-parameter-index>*] [seqNum *<sequence-number>*] *<reasons-for-discard>*

Outbound AH packet discarded: src *<source-ip-address>* dst *<destination-ip-address>* [spi *<security-parameter-index>*] [seqNum *<sequence-number>*] *<reasons-for-discard>*

Outbound IPCOMP packet discarded: src *<source-ip-address>* dst *<destination-ip-address>* [cpi *<compression-parameter-index>*] *<reasons-for-discard>*

| Severity | Module | Type | Subtype |
|----------|----------|----------|---------|
| 4/NOTICE | 81/IPSEC | 042/IPSC | 001/MSG |

Explanation This message indicates that during IPSEC processing an outbound ESP, AH or IPCOMP packet was discarded. Detailed information of the packet and reasons for discard are logged.

Recommended Action Investigate the given reasons.

Outbound process expiry

Message Outbound process expiry: Interface number *<ipsec-interface>*, Policy *<ipsec-policy-name>*

| Severity | Module | Type | Subtype |
|----------|----------|----------|-----------|
| 2/DETAIL | 81/IPSEC | 042/IPSC | 003/OUERR |

Explanation An IPSEC policy SA bundle has reached its expiry lifetime limit. The traffic will be queued and IPSEC will attempt to renegotiate a new SA bundle.

Recommended Action No action is required.

Outbound process no bundle

Message Outbound process no bundle: Interface number
<ipsec-interface>, Policy <ipsec-policy-name>

| Severity | Module | Type | Subtype |
|----------|----------|----------|-----------|
| 2/DETAIL | 81/IPSEC | 042/IPSC | 003/OUERR |

Explanation During outbound IPSEC processing, an IPSEC policy SA bundle was not found. IPSEC will attempt to renegotiate a new SA bundle.

Recommended Action No action is required.

Outbound process soft expiry

Message Outbound process soft expiry: Interface number
<ipsec-interface>, Policy <ipsec-policy-name>

| Severity | Module | Type | Subtype |
|----------|----------|----------|-----------|
| 2/DETAIL | 81/IPSEC | 042/IPSC | 003/OUERR |

Explanation An IPSEC policy SA bundle has reached its soft expiry lifetime limit. IPSEC will attempt to renegotiate a new bundle.

Recommended Action No action is required.

SA: ICV verify fail: SPI

Message SA <sa-id>: ICV verify fail: SPI
<security-parameter-index>

| Severity | Module | Type | Subtype |
|----------|----------|----------|-----------|
| 3/INFO | 81/IPSEC | 042/IPSC | 002/INERR |

Explanation During inbound IPsec processing, the verification of the ICV (Integrity Check Value) contained in the security protocol header failed. Authentication may have failed due to incompatible ICV or padding.

Recommended Action Check the IPsec configuration to ensure authentication keys are correctly setup.

Initiate debugging of packet traffic using the command:

```
enable ipsec policy debug
```

SA: Padding invalid: SPI

Message SA <sa-id>: Padding invalid: SPI
<security-parameter-index>

| Severity | Module | Type | Subtype |
|----------|----------|----------|-----------|
| 3/INFO | 81/IPSEC | 042/IPSC | 002/INERR |

Explanation This message indicates that during an inbound IPsec processing, a packet passed to IPSEC with invalid ESP encryption padding.

Recommended Action Check the IPsec configuration to ensure encryption keys are correctly setup.

SA: sequence number overflow

Message SA <sa-id>: sequence number overflow: (SPI
<security-parameter-index>)

| Severity | Module | Type | Subtype |
|----------|----------|----------|-----------|
| 3/INFO | 81/IPSEC | 042/IPSC | 003/OUERR |

Explanation During outbound IPsec processing, a packet was discarded due to a sequence number overflow. The sequence number has cycled and 'anti-replay' is configured.

Recommended Action Check the configuration of the remote device to ensure it is correctly setup.

SA: Sequence number out of range

Message SA <sa-id>: Sequence number out of range: SeqNum
<sequence-number>, SPI <security-parameter-index>

| Severity | Module | Type | Subtype |
|----------|----------|----------|-----------|
| 3/INFO | 81/IPSEC | 042/IPSC | 002/INERR |

Explanation During inbound IPSEC processing, a packet with sequence number out of the valid window range was seen. The sequence number has wrapped or is too old and 'anti-replay' is configured.

Recommended Action No action is required.

SA: Sequence number duplicate

Message SA <sa-id>: Sequence number duplicate: SeqNum
<sequence-number>, SPI <security-parameter-index>

| Severity | Module | Type | Subtype |
|----------|----------|----------|-----------|
| 3/INFO | 81/IPSEC | 042/IPSC | 002/INERR |

Explanation During inbound IPSEC processing, IPsec received a packet with a sequence number that had been seen before. 'Anti-replay' is configured.

Recommended Action No action is required.

VPN licence found but device only supports lower licence

Message <number> VPN licence found, but device only supports
<number> VPNs

| Severity | Module | Type | Subtype |
|----------|----------|----------|---------|
| 4/NOTICE | 81/IPSEC | 042/IPSC | 001/MSG |

Explanation The VPN licence loaded on the device allows more VPNs than the device can support. The number of concurrent VPN tunnels is limited to the number that the device can support.

Recommended Action No action is required. To discuss whether a different feature licence would be more suitable for your device, contact your authorised Allied Telesis distributor or reseller.

Module: ISAK

ISAKMP Key Management

This chapter contains messages belonging to the module ISAK, sorted into the following Types:

- [“IKMP: ISAKMP Key Management” on page 339](#)

For more information about ISAKMP, see the *IP Security (IPsec)* chapter in the *Software Reference*.

Type: IKMP

ISAKMP Key Management

Authentication failed

Message Exchange <number>: Authentication failed

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation An ISAKMP peer sent a Hash payload which was different to the expected Hash, so the peer could not be authenticated. This indicates one of the generated authentication SKEYIDs is incorrect.

Recommended Action The devices may not be configured correctly, or an error may have occurred in the SKEYID generation. Check that the devices have the same pre-shared secret, and the same Hash algorithm configured. Check the Nonce payload sizes are correct, and re-attempt the exchange.

Can't change back from NAT-T UDP port

Message Exchange <number>: Can't change back from NAT-T UDP port 4500

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 3/INFO | 82/ISAK | 043/IKMP | 004/MSG |

Explanation The device discarded a packet the peer sent over the old NAT-T UDP port. Once a NAT-T (500 to 4500) port change occurs, any Main mode or Aggressive mode packets received on the old port are discarded (as per the NAT-T draft).

Recommended Action This indicates that the device received an old, delayed packet, or that the peer is behaving unexpectedly. If the secure connection does not establish, use the **enable isakmp debug** command to investigate the problem further, paying particular attention to the NAT-T payloads and port numbers used. Multiple log messages received for the same exchange can indicate a replay attack.

Exchange completed successfully

Message Exchange <number>: Completed successfully

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The specified ISAKMP exchange succeeded.

Recommended Action No action is required.

Decrypt failed - pre-shared key may be incorrect

Message Exchange <number>: Decrypt failed - pre-shared key may be incorrect

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The device received an encrypted ISAKMP message that it judged as invalid.

Recommended Action Check the pre-shared secret on the peer device is correct. This could also indicate a DOS attack.

DELETE SA payload received from peer

Message Exchange <number>: DELETE SA payload received from peer <ip-address>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The device received a Delete message notifying it that the peer had destroyed an ISAKMP or IPsec SA. ISAKMP peers periodically re-key and delete SAs, as configured traffic volume and time expiry limits are reached.

Recommended Action No action is required.

Disallowed UDP port or remote IP address change

Message Exchange <number>: Disallowed UDP port or remote IP address change

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 3/INFO | 82/ISAK | 043/IKMP | 004/MSG |

Explanation The device discarded a packet received from a peer, because the source IP address or source port address had changed unexpectedly. Either no NAT devices were detected between the peers, or the NAT device detected should not require the port or IP address change that was made.

Recommended Action This could indicate that the device received an old, delayed packet, or that there is a problem due to a NAT-T inter-operability difficulty with a third-party device. If the secure connection does not establish, use the **enable isakmp debug** command to investigate the problem further, paying particular attention to the NAT-T payloads and IP addresses and port numbers used. Multiple log messages received for the same exchange can indicate a replay attack.

DOI not supported

Message Exchange <number>: DOI not supported

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation An ISAKMP message received had an unsupported Domain of Interpretation (DOI) value. To see the DOI the ISAKMP policy supports, use the **show isakmp policy** command for the specific policy.

Recommended Action Check the configuration of the peer device. If it is a third party device, it may be configured to negotiate for another DOI, or to send messages with an invalid value.

Exchange failed

Message Exchange <number>: Failed

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The specified ISAKMP exchange failed.

Recommended Action To investigate why the exchange failed, use the:

- **show log** command to see whether the failure generated a log message for the exchange, or whether an error notification was sent to the peer
- **show isakmp counter=general** command to see if any error counters were incremented
- **show isakmp counter=[aggressive|main|quick]** command, for the type of exchange that failed, to see if any error counters were incremented
- **enable isakmp debug** command if the problem keeps recurring, as this may provide more information when the failure occurs

Exchange limit exceeded

Message Exchange limit <number> exceeded

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation An ISAKMP exchange could not be created because too many ISAKMP exchanges are already in progress. The device limits the number of concurrent ISAKMP exchanges to protect its CPU resources from Denial of Service attacks.

Excessive ISAKMP exchanges can occur for the following reasons:

- A peer device is misconfigured, causing it to initiate an excessive number of exchanges.
- The device has restarted, and a large number of ISAKMP policies are configured for pre-negotiation. Pre-negotiation for other policies will continue once some exchanges have completed.
- The device is validly negotiating a large number of concurrent exchanges. This can occur if the device is configured to accept or initiate a large number of connections. ISAKMP retransmissions should ensure that the device can restart any failed exchanges. However, a delay may occur before the device establishes all the secure connections.
- A Denial of Service attack is occurring.

Recommended Action If the device normally accepts a large number of ISAKMP connections, then connections to the device may occasionally exceed the exchange limit without affecting ISAKMP and IPsec operation. If this is affecting ISAKMP and IPsec operations, then:

- Check the reliability of the network. If the network is unreliable, then configure both this device and its peer device with similar ISAKMP retransmission timeouts. To change the timeout settings, use the **msgtimeout** and **msgretrylimit** options in the **set isakmp policy** command.
- Check the frequency of this exchange limit failure using the log feature. If this issue occurs at consistent time intervals, and the device has a large number of policies, then ISAKMP may be re-keying many exchanges at the same time, causing congestion. Stagger the ISAKMP and IPsec expiry-limits to avoid any congestion by using the **expirybytes** and **expiryseconds** options in the **set ipsec bundlespecification** and **set isakmp policy** commands.
- Check the peer addresses for unknown hosts using the **show isakmp exchange** command. Any unknown address could be a malicious host launching an ISAKMP DOS attack. If an unknown IP address is generating the an excessive number of exchanges, then investigate the host. If a known IP address is generating an excessive number of exchanges, then check that the peer device is configured correctly.
- Check the length of time that exchanges are taking. ISAKMP exchanges should complete quickly, and should not take longer than a few seconds, accept for when in **deletedelay** state. If exchanges are taking more than a few seconds, then the peer device could be misconfigured. To find slow exchanges, use the **show isakmp exchange** command multiple times every two seconds, and look for exchanges that are taking more than a few seconds to complete. Alternatively, check for slow exchanges by comparing the time listed in the **exchange started** and the **exchange completed** logs for each exchange.

IKE retry attempts exceeded

Message IKE retry attempts exceeded for peer *<ip-address>*, policy *<policy-name>*

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 4/NOTICE | 82/ISAK | 043/IKMP | 004/MSG |

Explanation Repeated attempts to complete an ISAKMP exchange have failed. IKE exchanges are only re-attempted when the parameter **retryikeattempts** is set to a non-zero value in the **create isakmp policy** and **set isakmp policy** commands. See the IP Security (IPsec) chapter of the Software Reference for more information. The device has reached the configured number of consecutive retry attempts and will no longer retry the exchange. The previous IKE exchange may have failed because:

- there is a network problem or outage
- SA proposals sent by the device were rejected
- the device or its peer are misconfigured or unresponsive

If the device has IPsec traffic to encrypt it will still initiate ISAKMP exchanges normally, however, manual intervention may be required to successfully bring up a secure connection.

Recommended Action Investigate the possible causes. Try sending traffic, such as ping, across the tunnel to troubleshoot the problem. Use the following commands to determine if a VPN tunnel is still active and what the cause of the failure was:

- **enable isakmp debug**
- **show ipsec counter**
- **show ipsec policy sabundle** for the specific policy
- **show ipsec sa**
- **show isakmp counters**
- **show isakmp exchange**
- **show isakmp sa**
- **show log**

See the IP Security (IPsec) chapter for more information about using these commands.

Incompatible versions

Message Exchange <number>: Incompatible versions

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The device does not support the version of ISAKMP specified in the received message. Currently the device only supports version 1.0 of ISAKMP.

Recommended Action Check the version(s) of ISAKMP that the peer device supports, and configure to version 1.0 if possible.

Initiating IKE retry attempt with peer

Message Initiating IKE retry attempt with peer <ip-address>, policy <policy-name>

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 3/INFO | 82/ISAK | 043/IKMP | 004/MSG |

Explanation An IKE exchange is being re-attempted after an exchange failure. IKE exchanges are only re-attempted when the parameter **retryikeattempts** is set to a non-zero value in the **create isakmp policy** and **set isakmp policy** commands. See the IP Security (IPsec) chapter for more information. The previous IKE exchange may have failed because:

- there was a temporary network problem
- there was a one-off error with the key exchange
- the device rejected the SA proposal from the peer
- the peer sent a "delete" message for the only remaining SA

Recommended Action Investigate the possible causes if the IKE exchanges continue to fail, despite successive retry attempts. Try sending traffic, such as ping, across the tunnel to troubleshoot the problem. Use the following commands to determine if a VPN tunnel is still active and what the cause of the failure was:

- **enable isakmp debug**
- **show ipsec counter**
- **show ipsec policy sabundle** for the specific policy
- **show ipsec sa**
- **show isakmp counters**
- **show isakmp exchange**
- **show isakmp sa**
- **show log**

See the IP Security (IPsec) chapter for more information about using these commands.

Invalid hash information

Message Exchange <number>: Invalid hash information

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation An ISAKMP peer sent a Hash payload with the wrong length. The Hash payload needs to be the same length as the Hash algorithm configured on the device.

Recommended Action Check that the ISAKMP peer has the correct Hash algorithm configured, and that the Hash payload length sent is the right length for the Hash algorithm.

Invalid id information

Message Exchange <number>: Invalid id information

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The device received an Identification payload which contained invalid information. For phase 1 exchanges, this can mean:

- an invalid X.500 distinguished name was specified
- the port was incorrect; this should be set to either 500 or zero
- the protocol was incorrect; this should be set to UDP or zero

For phase 2 exchanges, this can mean the:

- ID type is unsupported (the device supports all ID types specified in RFC 2407)
- ID payload length is longer than supported
- responder's ID payloads are different to what the initiator sent

Recommended Action Check the configuration on the peer device. The peer may be sending an incorrect Identification payload.

Invalid payload type

Message Exchange <number>: Invalid payload type

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation An ISAKMP payload that the device received is different to the expected payload type. The payload may have been an unknown type, or may have occurred in the message more times than expected.

Recommended Action The ISAKMP peer may be sending vendor-specific payloads, or behaving unexpectedly. Use the **show isakmp counters**, or **enable isakmp debug** commands to see determine why the payload is invalid. Check the configuration of the peer device.

Invalid proposal syntax

Message Exchange <number>: Invalid proposal syntax

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation An error was encountered while processing the format of the ISAKMP proposal payloads. The error may have occurred because:

- the phase 1 SA proposal was not the first payload
- more than one phase 1 proposal was specified
- more proposals or transforms were specified than the device supports
- the proposal/transform payload format was incorrect

Recommended Action To determine the exact cause of the proposal syntax error, use the **enable isakmp debug** command and check the output from the **show isakmp counter** command for aggressive, main and quick mode. Once the exact cause is found, change the configuration of the peer as needed.

Invalid protocol id

Message Exchange <number>: Invalid protocol id

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The value received for the Protocol-ID field in a Notification, Delete, or Proposal payload was not supported by the device, or was different to what the device expected. For example, receiving an IPsec Protocol-ID in a phase 1 exchange, when it should be an ISAKMP Protocol-ID.

Recommended Action Check the configuration on the peer device. It may be configured to negotiate an unsupported Protocol-ID, or it may be sending messages with an invalid value.

Invalid SPI

Message Exchange <number>: Invalid SPI

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The IPsec SPI received was a different length or different value than expected. A 4-byte SPI is expected, as per RFC 2409. If IPComp is used, then a 2-byte SPI is also accepted.

Recommended Action Check the configuration on the peer device. It may be configured to negotiate for an unsupported SPI size, or it may be sending messages with an invalid value.

ISAKMP has been disabled

Message ISAKMP has been disabled

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 3/INFO | 82/ISAK | 043/IKMP | 004/MSG |

Explanation ISAKMP functionality is disabled.

Recommended Action No action is required.

ISAKMP has been enabled

Message ISAKMP has been enabled

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 3/INFO | 82/ISAK | 043/IKMP | 004/MSG |

Explanation ISAKMP functionality is enabled.

Recommended Action No action is required.

Local UDP port changed

Message Exchange <number>: Local UDP port changed

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 3/INFO | 82/ISAK | 043/IKMP | 004/MSG |

Explanation The local UDP port has changed. This occurs when NAT-T moves the ISAKMP traffic from the primary port (default 500) to the secondary 4500 port.

Recommended Action No action is required.

More than one INITIAL-CONTACT received for SA: <number>

Message Exchange <number>: More than one INITIAL-CONTACT received for SA: <number>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The device received more than one Initial-Contact notification for the same ISAKMP SA. The Initial-Contact message is only sent if the new SA is the first SA established with a peer. This can occur if the peer reboots, which makes older SAs no longer valid.

Recommended Action Investigate the sending device if repeated Initial-Contact notification messages occur, as this indicate a DoS replay attack.

No proposal chosen

Message Exchange <number>: No proposal chosen

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation None of the ISAKMP proposals offered by the peer matched the values of the local security policies on the device.

Recommended Action Use the **enable isakmp debug** commands to determine which ISAKMP attribute is failing to match. Check the configuration on both devices as one device may be misconfigured. In particular, check both devices have the correct values for the:

- encryption algorithm
- Hash algorithm
- authentication method
- Diffie-Hellman group description and group type
- key length

Notification received - <string>

Message Exchange <number>: Notification received - <string>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The device received a notification message that indicates an error occurred in an ISAKMP exchange.

Recommended Action Investigate the notification type received. Standard notification message types are defined by RFC 2408 and more information on why the peer sent an individual message can be found in that document.

Notification received - CONNECTED

Message Exchange <number>: Notification received - CONNECTED

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The device received a Connected notification message, notifying it that an SA is established. The device expects a Connected notification message when the peer device has previously sent ISAKMP messages with the commit bit set in the ISAKMP header. This ensures that traffic is not sent over an SA until the ISAKMP peer confirms that the SA is established.

Recommended Action No action is required.

Notification received - DOI

Message Exchange <number>: Notification received - DOI

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The device received a notification message where the message type is a DOI-specific code. DOI-specific codes are described in RFC 2407. This normally indicates the device has received status information that is supplementary to the exchange. This generally means:

- this is the first ever SA established with the peer
- the peer chose a different SA lifetime
- the devices are establishing whether anti-replay detection will be used

Recommended Action No action is required.

Notification received - PRIVATE

Message Exchange <number>: Notification received - PRIVATE

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The device received a notification message where the message type is a "private-use" code. This indicates that the peer is sending an invalid or unsupported notify message type.

Recommended Action Check the configuration on the peer device. It may be trying to use vendor-specific functionality that it not supported by the device.

Notification received - RESERVED

Message Exchange <number>: Notification received - RESERVED

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The device received a notification message where the message type is a reserved code. This indicates that the peer is sending an invalid or unsupported notify message type.

Recommended Action Check the configuration on the peer device. It may be trying to use vendor-specific functionality that it not supported by the device.

Notification sent - <string>

Message Exchange <number>: Notification sent - <string>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The device sent a notification message to the peer indicating that an error occurred in the ISAKMP exchange.

Recommended Action To determine why the exchange failed, examine the log messages for that exchange. To see extended details use the commands **show isakmp counter** and **enable isakmp debug**.

Notification sent - CONNECTED

Message Exchange <number>: Notification sent - CONNECTED

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The device sent a Connected notification to the peer, indicating that the new SA is established and ready to receive traffic. The device can only send these messages when the **setcommit** parameter is set to **on** for the ISAKMP policy.

Recommended Action No action is required.

Notification sent - DOI

Message Exchange <number>: Notification sent - DOI

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The device sent a DOI-specific notification to the peer. This is usually an Initial-Contact message, which is sent when the new SA is the first SA established with the peer. These are commonly sent when the device reboots, and a peer is sending traffic over an SA established before the reboot. The message sent informs the peer that any previous SAs are no longer valid.

Recommended Action No action is required.

Payload malformed

Message Exchange <number>: Payload malformed: <reason>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The payload of a packet received by the device did not conform due to the reason listed. The packet was dropped. Discrepancies with packet payloads can be due to:

- unexpected messages or retransmissions, which can be due to an SA being removed on one peer but not the other
- the message being decrypted incorrectly, which can occur when pre-shared keys are incorrect
- the peer using an unsupported ISAKMP behaviour or cryptographic algorithm
- packet corruption
- a denial-of-service attack
- Discrepancies with the interpretation of RFC standards by third party equipment operating as the peer

Recommended Action If multiple payload malformed messages are received, then check that the secure connection is still valid, for example, by pinging across the IPSEC tunnel. If the IPsec tunnel is no longer valid, then try to re-establish the SAs manually. If this is the first time that an IPsec tunnel is being attempted with the peer, then check that the configuration and any pre-shared keys are correct on both devices.

Payload missing

Message Exchange <number>: Payload missing

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation An expected payload did not arrive, or arrived in an unexpected order. For example, the first payload in each Quick mode message should always be the Hash payload. This may indicate:

- that the device and its peer are mis-configured; for example, they may be using different authentication methods
- if the peer is a third-party device, that the vendor's ISAKMP implementation interpret the RFCs in a different or unusual manner
- that a DoS attack is occurring.

Recommended Action To determine which payload is missing, using the commands:

- **enable isakmp debug**
- **show isakmp counter=quick**
- **show isakmp counter=heartbeat**

Check that the peer is configured correctly and the message originated from the peer device. Referring to the RFCs may also help to understand why the payload is unexpected. Contact your authorised Allied Telesis distributor or reseller for further help if this problem continues to cause trouble establishing a secure connection.

Phase 1 [init] started with peer

Message Exchange <number>: <string> Phase 1 [init] started with peer <ip-address> local <ip-address> Cookie_I <hexadecimal-number> Cookie_R <hexadecimal-number>

Exchange <number>: Phase 1 [init] started with peer <ipv6-address>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The device initiated a new phase 1 exchange with an ISAKMP peer.

Recommended Action No action required.

Phase 1 [resp] started with peer

Message Exchange <number>: <string> Phase 1 [resp] started with peer <ip-address> local <ip-address> Cookie_I <hexadecimal-number> Cookie_R <hexadecimal-number>

Exchange <number>: Phase 1 [resp] started with peer <ipv6-address>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The device is responding to a new phase 1 exchange, initiated by an ISAKMP peer.

Recommended Action No action required.

Phase 2 [init] started with peer

Message Exchange <number>: <string> Phase 2 [init] started with peer <ip-address> local <ip-address> Cookie_I <hexadecimal-number> Cookie_R <hexadecimal-number>

Exchange <number>: Phase 2 [init] started with peer <ipv6-address>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The device initiated a new phase 2 exchange with an ISAKMP peer.

Recommended Action No action required.

Phase 2 [resp] started with peer

Message Exchange <number>: <string> Phase 2 [resp] started with peer <ip-address> local <ip-address> Cookie_I <hexadecimal-number> Cookie_R <hexadecimal-number>

Exchange <number>: Phase 2 [resp] started with peer <ipv6-address>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The device is responding to a new phase 2 exchange, initiated by an ISAKMP peer.

Recommended Action No action required.

Prenegotiation failed

Message Exchange <number>: Prenegotiate failed

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 3/INFO | 82/ISAK | 043/IKMP | 004/MSG |

Explanation An ISAKMP policy configured to prenegotiate failed to successfully start an exchange. This could be because the IP interface or route is not available yet, or because the maximum number of concurrent ISAKMP exchanges (30) are already in progress. ISAKMP continues to retry the prenegotiation until it succeeds.

Recommended Action No action is required.

Received SA lifetime too low

Message Exchange <number>: Received SA lifetime too low

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The ISAKMP exchange was rejected because the SA life-duration value set by the peer is lower than this device supports.

Recommended Action Set the SA life-duration value on the peer device to 60 seconds or greater. If you cannot access the peer device, then investigate whether the peer is misconfigured, or attempting a denial-of-service attack.

Remote IP address changed

Message Exchange <number>: Remote IP address changed

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 3/INFO | 82/ISAK | 043/IKMP | 004/MSG |

Explanation The remote IP address has changed. This can occur if the NAT box is restarted, and has a global IP address dynamically assigned to it.

Recommended Action No action is required.

Remote UDP port changed

Message Exchange <number>: Remote UDP port changed

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The remote UDP port has changed. This occurs when NAT-T moves the ISAKMP traffic from the primary port (default 500) to the secondary 4500 port.

Recommended Action No action is required.

Retransmission received after completion

Message Exchange <number>: Retransmission received after completion

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 3/INFO | 82/ISAK | 043/IKMP | 004/MSG |

Explanation The device received a retransmission of the last message from the ISAKMP peer after the ISAKMP exchange had completed. The exchange must be in the DELETEDELAY state. This indicates that the peer did not receive the last message that the device transmitted in the ISAKMP exchange.

Recommended Action This could indicate that the last message that the device transmitted was lost due to network congestion. The device will resend its last message again, in an attempt to recover the ISAKMP exchange.

Situation not supported

Message Exchange <number>: Situation not supported

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The device received an ISAKMP message which had an unsupported situation value in the SA proposal. Currently the device only supports the IPsec DOI's SIT_IDENTITY_ONLY (0x01).

Recommended Action Check the configuration on the ISAKMP peer. It may be configured to negotiate for another DOI or situation, or it may be sending messages with an invalid value.

Unequal payload lengths

Message Exchange <number>: <string> unequal payload lengths

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation An ISAKMP message received has a length field which is different to the actual length of the message.

Recommended Action Check that the peer is formatting the ISAKMP message correctly. This could indicate a DoS attack.

XAUTH [client] started with peer

Message Exchange <number>: XAUTH [client] started with peer <ip-address> local <ip-address> Cookie_I <hexadecimal-number> Cookie_R <hexadecimal-number>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The device responded to a new phase 1.5 transaction exchange by sending extended authentication information to the peer. The device is acting as the XAUTH client in this exchange.

Recommended Action No action is required.

XAUTH [server] started with peer

Message Exchange <number>: XAUTH [server] started with peer <ip-address> local <ip-address> Cookie_I <hexadecimal-number> Cookie_R <hexadecimal-number>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The device initiated a new phase 1.5 transaction exchange with the peer to verify the peer's extended authentication information. The device is acting as the XAUTH server in this exchange.

Recommended Action No action is required.

XAUTH failed with peer

Message Exchange <number>: XAUTH failed with peer <ip-address>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The XAUTH transaction exchange with the specified peer failed.

Recommended Action Check the XAUTH details configured for the client device, such as the username and password, match the details specified in the server's user database.

XAUTH successful with peer

Message Exchange <number>: XAUTH successful with peer <ip-address>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 82/ISAK | 043/IKMP | 001/XCHG |

Explanation The XAUTH transaction exchange with the specified peer succeeded.

Recommended Action No action is required.

Module: FING

Finger

This chapter contains messages belonging to the module FING, sorted into the following Types:

- ["AUTH: Authentication" on page 361](#)

For more information about Finger, see the *Internet Protocol (IP)* chapter in the *Software Reference*.

Type: AUTH Authentication

Finger request denied

Message Finger request denied by *<ip-address>*

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 83/FING | 011/AUTH | 002/FAIL |

Explanation The host is not listening on the finger port.

Recommended Action Check that the host has a finger server running.

Finger request reply successfully received

Message Finger request reply successfully received from *<ip-address>*

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 3/INFO | 83/FING | 011/AUTH | 001/OK |

Explanation The host replied to a finger query.

Recommended Action No action is required.

Received invalid or bad ASCII codes

Message Received invalid or bad ASCII codes from *<ip-address>*

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 83/FING | 011/AUTH | 002/FAIL |

Explanation The reply message from the host fingered had invalid ASCII codes in it.

Recommended Action Contact your authorised Allied Telesis distributor or reseller for assistance.

Module: HTTP

Hypertext Transfer Protocol

This chapter contains messages belonging to the module HTTP, sorted into the following Types:

- ["AUTH: Authentication" on page 363](#)
- ["HTTP: Hypertext Transfer Protocol" on page 364](#)

For more information about using HTTP, see the *Managing Configuration Files and Software Versions* chapter in the *Software Reference*.

Type: AUTH Authentication

HTTP: User : authorisation failed ... reason

Message HTTP: User <user-name>:<ip-address> authorisation failed,
reason:<not-authenticated>

HTTP: User <user-name>:<ip-address> authorisation failed,
reason:<ok>

HTTP: User <user-name>:<ip-address> authorisation failed,
reason:<no-such-user>

HTTP: User <user-name>:<ip-address> authorisation failed,
reason:<bad-password>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 4/NOTICE | 84/HTTP | 011/AUTH | 002/FAIL |

Explanation The authorisation of an HTTP request has failed. The user is identified by user-name and IP address.

Recommended Action A user has failed to type the correct user-name and/or password into the browser prompt. Check that they have the correct user-name and password.

Type HTTP

Hypertext Transfer Protocol

... HTTP request exceeds safe size

Message httpServerReceiveMsg - HTTP request exceeds safe size

| Severity | Module | Type | Subtype |
|----------|---------|----------|-----------|
| 4/NOTICE | 84/HTTP | 045/HTTP | 003/ERROR |

Explanation An HTTP request has been received that exceeds 80k bytes.

Recommended Action HTTP requests which are greater than 80k bytes are considered to be unsafe. It is possible that someone is attacking the device. Investigate.

... HTTP response header exceeds safe size

Message httpClientHandleHeaderBufferRx - HTTP response header exceeds safe size

| Severity | Module | Type | Subtype |
|----------|---------|----------|-----------|
| 4/NOTICE | 84/HTTP | 045/HTTP | 003/ERROR |

Explanation An HTTP response header has been received that exceeds 80k bytes.

Recommended Action HTTP response headers which are greater than 80k bytes are considered to be unsafe. It is possible that someone is attacking the device. Investigate.

... Premature end-of-line parsing file paramValue

Message HTTP Multipart-Form Parsing - Premature end-of-line parsing file paramValue

| Severity | Module | Type | Subtype |
|----------|---------|----------|-----------|
| 4/NOTICE | 84/HTTP | 045/HTTP | 003/ERROR |

Explanation An unexpected end-of-line has been encountered when parsing a file within multi-part HTTP form data.

Recommended Action The received HTTP request is corrupted. Someone could be trying to attack the device. Investigate.

... Premature end-of-line parsing filePath

Message HTTP Multipart-Form Parsing - Premature end-of-line parsing filePath

| Severity | Module | Type | Subtype |
|----------|---------|----------|-----------|
| 4/NOTICE | 84/HTTP | 045/HTTP | 003/ERROR |

Explanation An unexpected end-of-line has been encountered when parsing a file path within multi-part HTTP form data. The received HTTP request is corrupted. Someone could be trying to attack the device.

Recommended Action The received HTTP request is corrupted. Someone could be trying to attack the device. Investigate.

... Premature end-of-line parsing paramName

Message HTTP Multipart-Form Parsing - Premature end-of-line parsing paramName

| Severity | Module | Type | Subtype |
|----------|---------|----------|-----------|
| 4/NOTICE | 84/HTTP | 045/HTTP | 003/ERROR |

Explanation An unexpected end-of-line has been encountered when parsing a parameter name within multi-part HTTP form data.

Recommended Action The received HTTP request is corrupted. Someone could be trying to attack the device. Investigate.

Failed to close file

Message Failed to close file

| Severity | Module | Type | Subtype |
|----------|---------|----------|-------------|
| 3/INFO | 84/HTTP | 045/HTTP | 002/GETFAIL |

Explanation A file being served by the HTTP server could not be closed.

Recommended Action The Flash file system could be corrupt. Investigate.

Failed to open file

Message Failed to open file

| Severity | Module | Type | Subtype |
|----------|---------|----------|-------------|
| 3/INFO | 84/HTTP | 045/HTTP | 002/GETFAIL |

Explanation A file being served by the HTTP server could not be opened.

Recommended Action The Flash file system could be corrupt. Investigate.

Failed to read file

Message Failed to read file

| Severity | Module | Type | Subtype |
|----------|---------|----------|-------------|
| 3/INFO | 84/HTTP | 045/HTTP | 002/GETFAIL |

Explanation A read operation failed on the file being served by the HTTP server.

Recommended Action The Flash file system could be corrupt. Investigate.

Request from IP-address for URI failed

Message Request from *<ip-address>* for *<uri>* failed - HTTP *<status-code>* *<reason-request-failed>*

| Severity | Module | Type | Subtype |
|----------|---------|----------|-------------|
| 3/INFO | 84/HTTP | 045/HTTP | 002/GETFAIL |

Explanation An HTTP request has failed. The HTTP failure code and message is displayed and the user is identified by user-name and IP address.

Recommended Action HTTP failure codes are described in RFC 2616 - Hypertext Transfer Protocol.

Request from IP-address for URI successful

Message Request from *<ip-address>* for *<uri>* successful

| Severity | Module | Type | Subtype |
|----------|---------|----------|-----------|
| 2/DETAIL | 84/HTTP | 045/HTTP | 001/GETOK |

Explanation An HTTP request has been successfully received. The user is identified by user-name and IP address.

Recommended Action No action is required.

Module: VRRP

Virtual Router Redundancy Protocol

This chapter contains messages belonging to the module VRRP, sorted into the following Types:

- [“VRRP: Virtual Router Redundancy Protocol” on page 369](#)

For more information about VRRP, see the *Virtual Router Redundancy Protocol (VRRP)* chapter in the *Software Reference*.

Type: VRRP

Virtual Router Redundancy Protocol

vrrp: Assuming mastership of VR

Message vrrp<vr-id>: Assuming mastership of VR

| Severity | Module | Type | Subtype |
|----------|---------|----------|-------------|
| 3/INFO | 88/VRRP | 046/VRRP | 005/RISMAST |

Explanation This device has become the master router of the specified Virtual Router.

Recommended Action If this device is not the preferred master router, check the operational status of the preferred master router. Otherwise, no action is required.

vrrp: Bad advertisement received and discarded

Message vrrp<vr-id>: Bad advertisement received and discarded

| Severity | Module | Type | Subtype |
|----------|---------|----------|-----------|
| 3/INFO | 88/VRRP | 046/VRRP | 003/BADAD |

Explanation A VRRP advertisement packet was received and discarded due to errors in the packet.

Recommended Action Identify the source of the advertisement packet.

- Check that the sending device is correctly configured.
- If authentication is being used check that all devices have the same password.
- Check that all devices are using the same set of primary and secondary IP addresses.
- Check that all devices are using the same advertisement interval.

If the problem persists contact your authorised Allied Telesis distributor or reseller.

vrrp: Failed to add virtual MAC to receive address list

Message vrrp<vr-id>: Failed to add virtual MAC to receive address list. code <error-code>

| Severity | Module | Type | Subtype |
|----------|---------|----------|-------------|
| 6/URGENT | 88/VRRP | 046/VRRP | 005/RISMAST |

Explanation An internal error occurred when configuring the device to receive the VRRP virtual MAC address. This error will prevent the device from correctly acting as the VRRP master router.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

vrrp: Failed to delete virtual MAC from receive address list.

Message vrrp<vr-id>: Failed to delete virtual MAC from receive address list. code <error-code>

| Severity | Module | Type | Subtype |
|----------|---------|----------|-------------|
| 6/URGENT | 88/VRRP | 046/VRRP | 005/RISMAST |

Explanation An internal error occurred when removing the VRRP virtual MAC address from the list of MAC addresses that the device should receive.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

vrrp: Failed to add virtual MAC to switch L3 tables

Message vrrp<vr-id>: Failed to add virtual MAC to switch L3 tables

| Severity | Module | Type | Subtype |
|----------|---------|----------|-------------|
| 6/URGENT | 88/VRRP | 046/VRRP | 005/RISMAST |

Explanation An internal error occurred when configuring the switch hardware tables to handle the VRRP virtual MAC address. This error will prevent the switch from correctly acting as the VRRP master router.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

vrrp: Failed to delete virtual MAC from switch tables

Message vrrp<vr-id>: Failed to delete virtual MAC from switch tables

| Severity | Module | Type | Subtype |
|----------|---------|----------|-------------|
| 6/URGENT | 88/VRRP | 046/VRRP | 005/RISMAST |

Explanation An internal error occurred when removing the VRRP virtual MAC address from switch hardware tables when the device ceased to be the master router.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

vrrp: Interface down, priority reduced

Message vrrp<vr-id>: Interface <monitored-interface> down, priority reduced to <priority-value>

| Severity | Module | Type | Subtype |
|-------------|---------|----------|--------------|
| 5/IMPORTANT | 88/VRRP | 046/VRRP | 006/PRIORITY |

Explanation The priority of this device within the specified Virtual Router has been reduced due to the specified Monitored Interface going down.

Recommended Action Check the status of the Monitored Interface. Restore the connection if required.

vrrp: IP interface not found

Message vrrp<vr-id>: IP interface not found

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 88/VRRP | 046/VRRP | 004/NOIP |

Explanation The Virtual Router interface is not attached to IP, so it cannot be used. (This Virtual Router interface is the one specified using the OVER parameter of the CREATE VRRP command.)

Recommended Action Configure IP on the interface using the command:

```
add ip interface
```

then create the Virtual Router.

Message vrrp<vr-id>: IP interface not found

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 88/VRRP | 046/VRRP | 004/NOIP |

Explanation Either:

- when attempting to transmit a VRRP advertisement packet, VRRP was unable to find an appropriate interface IP address to use as the source address of the packet,
- the interface this Virtual Router is operating over no longer has an IP interface attached to it. The Virtual Router cannot operate correctly, or
- the device attempted to become either a backup router or the master router for the specified virtual router but the interface this Virtual Router is operating over no longer has an IP interface attached to it. The Virtual Router cannot operate correctly.

Recommended Action Check the interface that this VRRP operates over. Make sure there is at least one IP interface configured and that its subnet includes the Virtual Router IP address.

vrrp: Interface up, priority restored

Message vrrp<vr-id>: Interface <monitored-interface> up, priority restored to <priority-value>

| Severity | Module | Type | Subtype |
|-------------|---------|----------|--------------|
| 5/IMPORTANT | 88/VRRP | 046/VRRP | 006/PRIORITY |

Explanation The priority of this device within the specified Virtual Router has been increased because the specified Monitored Interface has come up.

Recommended Action No action is required.

vrrp: New master detected.

Message vrrp<vr-id>: New master detected. IP: <vr-master-ip-address>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 88/VRRP | 046/VRRP | 002/MNEW |

Explanation The device previously acting as the master router (this device or another one in the VR) of the virtual router has been replaced by the device with the specified IP address.

Recommended Action If the device with the specified IP address is not the preferred master router, check the operational status of the preferred master router.

Vrrp: Port Failed decrementing priority

Message Vrrp <vr-id> Vlan <vlan-name> <number-of-ports> Port Failed decrementing priority by <priority-decrease>

| Severity | Module | Type | Subtype |
|----------|---------|----------|--------------|
| 3/INFO | 88/VRRP | 046/VRRP | 006/PRIORITY |

Explanation The number of active ports in the specified VLAN has decreased so VRRP Port Monitoring has decreased the priority of this device in the Virtual Router by the specified amount.

Recommended Action Check that all required ports in the specified VLAN are connected. If ports are connected but not active check the condition of cables and the remote device.

Vrrp: Port up incrementing priority

Message Vrrp <vr-id>: Vlan <vlan-name> <number-of-ports> Port up incrementing priority by <priority-increase>

| Severity | Module | Type | Subtype |
|----------|---------|----------|--------------|
| 3/INFO | 88/VRRP | 046/VRRP | 006/PRIORITY |

Explanation The number of active ports in the specified VLAN has increased so VRRP Port Monitoring has increased the priority of this device in the Virtual Router by the specified amount.

Recommended Action No action is required.

vrrp: Withdrawn from service as master of VR

Message vrrp<vr-id>: Withdrawn from service as master of VR

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 3/INFO | 88/VRRP | 046/VRRP | 001/MRET |

Explanation The specified virtual router has been disabled or destroyed on this device. Previously, this device was master of this virtual router, so it has sent a VRRP advertisement packet indicating that it is retiring as master router.

Recommended Action If this is the intended behaviour, no action is necessary. Otherwise, check the status of the specified virtual router on this device.

Module: GUI

Web-Based Graphical User Interface

This chapter contains messages belonging to the module GUI, sorted into the following Types:

- ["USER: User Authentication Facility" on page 376](#)
- ["GUI: Graphical User Interface" on page 377](#)

For more information about using the GUI, see the *Using the Graphical User Interface (GUI)* chapter in the *Software Reference*.

Type: USER

User Authentication Facility

GUI user has logged in

Message GUI user <user-name>:<ip-address> has logged in

| Severity | Module | Type | Subtype |
|----------|--------|----------|---------|
| 3/INFO | 93/GUI | 019/USER | 001/LON |

Explanation A user with the IP address specified has logged on using the HTTP-based graphical user interface (GUI).

Recommended Action Make sure that the user is authorised to log in using the GUI. If not, investigate the source of the user.

GUI user has logged out

Message GUI user <user-name>:<ip-address> has logged out

| Severity | Module | Type | Subtype |
|----------|--------|----------|----------|
| 3/INFO | 93/GUI | 019/USER | 002/LOFF |

Explanation A GUI user with the IP address specified has logged out.

Recommended Action Make sure that user is authorised to use the GUI. If not, investigate the source of the user.

Type: GUI

Graphical User Interface

GUI resource file set

Message GUI resource file set to <resource-file-name> for the <temporary> install

GUI resource file set to <resource-file-name> for the <preferred> install

GUI resource file set to <resource-file-name> for the <default> install

| Severity | Module | Type | Subtype |
|----------|--------|---------|-------------------|
| 3/INFO | 93/GUI | 057/GUI | 001/RESRC_CHANGED |

Explanation The GUI resource file has been set to the specified resource file for the specified install.

Recommended Action No action is required.

GUI resource file unset

Message GUI resource file unset for the <temporary> install

GUI resource file unset for the <preferred> install

GUI resource file unset for the <default> install

| Severity | Module | Type | Subtype |
|----------|--------|---------|-------------------|
| 3/INFO | 93/GUI | 057/GUI | 001/RESRC_CHANGED |

Explanation The GUI resource file has been set to none for the specified install, effectively disabling the GUI when the device runs from that install.

Recommended Action No action is required.

Module: PKI

Public Key Infrastructure

This chapter contains messages belonging to the module PKI, sorted into the following Types:

- [“PKI: Public Key Infrastructure” on page 379](#)

For more information about PKI, see the *Public Key Infrastructure (PKI)* chapter in the *Software Reference*.

Type: PKI Public Key Infrastructure

Certificate enrollment for keypair done

Message Certificate enrollment <name> for keypair <keypair-id>
done

| Severity | Module | Type | Subtype |
|----------|--------|---------|---------|
| 3/INFO | 95/PKI | 050/PKI | 004/MP |

Explanation The certificate enrollment for the specified keypair has completed successfully.

Recommended Action No action is required.

Certificate key update for keypair done

Message Certificate key update <name> for keypair <keypair-id>
done

| Severity | Module | Type | Subtype |
|----------|--------|---------|---------|
| 3/INFO | 95/PKI | 050/PKI | 004/MP |

Explanation The certificate update for the specified keypair has completed successfully.

Recommended Action No action is required.

Module: BGP

Border Gateway Protocol

This chapter contains messages belonging to the module BGP, sorted into the following Types:

- [“BGP: Border Gateway Protocol” on page 381](#)

For more information about BGP, see the *Border Gateway Protocol version 4 (BGP-4)* chapter in the *Software Reference*.

Type: BGP

Border Gateway Protocol

BGP running low on memory

Message BGP running low on memory, dropping routing information

| Severity | Module | Type | Subtype |
|-------------|---------|---------|------------|
| 5/IMPORTANT | 103/BGP | 055/BGP | 002/MEMORY |

Explanation The system is getting low on memory. To reduce the chance that the system runs out of RAM and reboots or other parts of the system are affected, BGP is now limiting the learning/propagation of BGP route information. This means your BGP network is unreliable.

Recommended Action Work out which aspect of the system is using more RAM than expected when the product was sized for this task. Resolve the memory shortage in one of the following ways:

- To add more RAM, contact your authorised Allied Telesis distributor or reseller.
- Reduce the number of routes BGP is learning, or storing.
- If the RAM usage was a non-BGP task then restrict or limit this other task.

Reboot the device, as its BGP tables are unrecoverably inconsistent with the BGP peers' tables.

BGP Peer state change

Message BGP Peer <peer-ip-address> state change: state <current-state> ,

followed by:

<event> -> <new-state>

| Severity | Module | Type | Subtype |
|-------------|---------|---------|-----------|
| 5/IMPORTANT | 103/BGP | 055/BGP | 001/STATE |

Explanation These two log messages occur together when a BGP peer relationship has changed state, showing the old state, the event that caused the state change, and the new state.

Recommended Action No action is required.

Failed to register threshold

Message BACKOFF failed to register Lower threshold observer <number>%

BACKOFF failed to register Upper threshold observer <number>%

MEMLIMIT failed to register Lower threshold observer <number>%

MEMLIMIT failed to register Upper threshold observer <number>%

| Severity | Module | Type | Subtype |
|-------------|---------|---------|-------------|
| 5/IMPORTANT | 103/BGP | 055/BGP | 007/BACKOFF |

Explanation BGP failed to register one of the BGP limits for system memory usage, and BGP backoff functionality will not be activated.

Recommended Action Restart the device.

Failed to set notification threshold

Message BACKOFF failed to set Lower notification threshold to FALSE

BACKOFF failed to set Lower notification threshold to TRUE

BACKOFF failed to set Upper notification threshold to FALSE

BACKOFF failed to set Upper notification threshold to TRUE

| Severity | Module | Type | Subtype |
|-------------|---------|---------|-------------|
| 5/IMPORTANT | 103/BGP | 055/BGP | 007/BACKOFF |

Explanation BGP failed to set a notification threshold for monitory system memory usage, and BGP backoff functionality will not be activated.

Recommended Action Restart the device.

Failed to set trigger threshold

Message BACKOFF failed to set Lower trigger threshold to <number>%

BACKOFF failed to set Upper trigger threshold to <number>%

| Severity | Module | Type | Subtype |
|-------------|---------|---------|-------------|
| 5/IMPORTANT | 103/BGP | 055/BGP | 007/BACKOFF |

Explanation BGP failed to set a memory usage limit. The BGP backoff memory limits will not be changed from their current values.

Recommended Action Retry setting the memory usage limits, and disable and enable bgp backoff. If this does not work, restart the device.

Limit reached backing off

Message BACKOFF limit reached <number>%. Backing off for <number> seconds. Consec <number>.

| Severity | Module | Type | Subtype |
|-------------|---------|---------|-------------|
| 5/IMPORTANT | 103/BGP | 055/BGP | 007/BACKOFF |

Explanation The total system memory usage has reached the limit set for BGP backoff, and BGP has stopped processing. BGP will continue to back off until the memory usage falls, unless either the total backoff limit or the consecutive backoff limit is reached. This log displays the amount of consecutive backoffs reached so far.

Recommended Action Increase the memory size of the device, or reduce the number of BGP routes that the device is required to learn.

limit reached disabling peers

Message Consecutive BACKOFF limit reached <number>. Disabling Peers.

Total BACKOFF limit reached <number>. Disabling Peers.

| Severity | Module | Type | Subtype |
|-------------|---------|---------|-------------|
| 5/IMPORTANT | 103/BGP | 055/BGP | 007/BACKOFF |

Explanation BGP has reached either the consecutive or total backoff limit. If either one of these limits is reached, then all peers will be disabled. Peers will need to be manually re-enabled.

Recommended Action Reduce the number of routes that BGP is expected to learn, then re-enable the BGP peers.

NOTIFICATION received from BGP Peer

Message NOTIFICATION received from BGP Peer <peer-ip-address>:
followed by:
<error-code> error, <error-subcode>

| Severity | Module | Type | Subtype |
|-------------|---------|---------|-------------|
| 5/IMPORTANT | 103/BGP | 055/BGP | 004/NOTRECV |

Explanation These two log messages occur together when the identified peer has sent a notification message. The peer connection has shut down.

Recommended Action Check the configuration of the remote device to ensure it is correctly setup.

NOTIFICATION sent to BGP Peer

Message NOTIFICATION sent to BGP Peer <peer-ip-address>:
followed by:
<error-code> error, <error-subcode>

| Severity | Module | Type | Subtype |
|-------------|---------|---------|-------------|
| 5/IMPORTANT | 103/BGP | 055/BGP | 004/NOTRECV |

Explanation These two log messages occur together when the BGP system transmits a NOTIFICATION message to the identified peer. The string representation of the error code and error subcode is output.

Recommended Action Evaluate the notification message to identify why the peer connection was taken down.

Threshold reached

Message Lower BACKOFF threshold reached. Initiating Upper threshold <number>%
Upper BACKOFF threshold reached. Initiating Lower threshold <number>%

| Severity | Module | Type | Subtype |
|-------------|---------|---------|-------------|
| 5/IMPORTANT | 103/BGP | 055/BGP | 007/BACKOFF |

Explanation BGP backoff has reached either its upper or lower threshold and will begin monitoring the opposite threshold. If the upper threshold has been reached then BGP will be in a backed off state. If the lower threshold has been reached then BGP will begin processing unless its peers are disabled.

Recommended Action No action is required.

Warning Peer maxprefix limit reached, dropping route

Message Warning Peer <peer-ip-address> maxprefix limit reached, dropping route <route>

| Severity | Module | Type | Subtype |
|-------------|---------|---------|-------------|
| 5/IMPORTANT | 103/BGP | 055/BGP | 005/MAXDROP |

Explanation The system has received more than the configured limit of routes from this peer. The last learnt routes are being dropped to protect system resources.

Recommended Action Check the configured maxprefix limit for the peer by using the command

```
show bgp peer=<peer-ip-address>
```

If necessary, contact the peer's administrator to find out why it is sending more routes than you expect.

Warning Peer maxprefix limit reached, terminating connection

Message Warning Peer <peer-ip-address> maxprefix limit reached, terminating connection

| Severity | Module | Type | Subtype |
|-------------|---------|---------|-------------|
| 5/IMPORTANT | 103/BGP | 055/BGP | 006/MAXTERM |

Explanation The system has received more than the configured limit of routes from this peer. The peer connection is being disconnected.

Recommended Action Contact the peer's administrator to find out why it is sending more routes than you expect.

Module: **LOAD**

Server Load Balancer

This chapter contains messages belonging to the module LOAD, sorted into the following Types:

- [“LBAL: Server Load Balancer” on page 387](#)

For more information about the load balancer, see the *Server Load Balancing* chapter in the *Software Reference*.

Type: LBAL Server Load Balancer

HTTP error code returned by resource

Message HTTP error code `<http-error-code>` returned by resource `<resource-name>`

| Severity | Module | Type | Subtype |
|-------------|--------|----------|---------------|
| 5/IMPORTANT | 104/LB | 054/LBAL | 003/HTTPERROR |

Explanation A resource returned an HTTP server error status code that has been specified by the user to indicate that the resource is in an error state. As a result the resource has been marked as down.

Recommended Action Check the cause of the HTTP error code. When the HTTP server is available, enable the Load Balancer to use it as a resource using the command:

```
enable loadblancer resource
```

LB Resource exceeded critical RST

Message Load Balancer Resource `<resource-name>` exceeded critical RST percentage

| Severity | Module | Type | Subtype |
|-------------|--------|----------|-----------------|
| 5/IMPORTANT | 104/LB | 054/LBAL | 002/CRITICALRST |

Explanation An RST or 'reset' message is generated by TCP if it receives anything unexpected. The Load Balancer records the number of RST messages received for the last 100 connections to each resource. This message indicates that the number of RST messages it received from the resource for the last 100 connections exceeded the configured critical RST percentage. As a result the resource has been marked as down.

Recommended Action Check the resource. To change the critical RST value, use the command:

```
set loadbalancer criticalrst
```

Enable the resource using the command:

```
enable loadbalancer resource
```

LB Resource healthcheck failed

Message Load Balancer Resource <resource-name> healthcheck failed

| Severity | Module | Type | Subtype |
|-------------|--------|----------|--------------|
| 5/IMPORTANT | 104/LB | 054/LBAL | 001/PINGFAIL |

Explanation One of the periodic healthcheck pings of a Load Balancer resource configured on the device failed, and as a result the resource has been marked as down.

Either:

- the connection to the resources has gone down, or
- the resources themselves have all become unavailable, because they have failed or are too busy to respond.

Recommended Action Restore the connection between the load balancer and the resources, restart the resources (if they have become unavailable), or wait for the resources to become less busy. Then, either wait for the resources to be marked up again by the load balancer, or set all the resources to up using the command:

```
enable loadbalancer resource
```

Load Balancer Replication Peer not present

Message Load Balancer Replication Peer <redundant-peer-ip-address> not present

| Severity | Module | Type | Subtype |
|----------|--------|---------|--------------------|
| 3/INFO | 104/LB | 54/LBAL | 005/PEERNOTPRESENT |

Explanation This message indicates that the other device, which is to be the redundant load balancing peer, is unavailable (i.e. is unable to be pinged), hence a redundant peering relationship cannot be initiated.

Recommended Action Check all physical connections for the IP interface used to access the LB replication peer router. Try manually pinging the address of the LB replication peer router (this is the **peerip** parameter in the configuration). Check that the configuration for this replication is correct. It should be similar to the following configuration:

```
set loadbalancer redundancy peerip=192.168.2.201
listenport=5555 publicint=vlan1 redundip=172.207.1.2
redunmask=255.255.0.0
```

Make sure that there is no confusion between the parameters **peerip** and **redundip**. The parameter **peerip** is the address of the redundancy peer, and **redundip** is the IP address that is backed up by the redundancy protocol. This is the IP address used by the master for load balancing.

Load Balancer Replication Peer present

Message Load Balancer Replication Peer <*redundant-peer-ip-address*>
present

| Severity | Module | Type | Subtype |
|----------|--------|---------|-----------------|
| 3/INFO | 104/LB | 54/LBAL | 004/PEERPRESENT |

Explanation This message indicates that the other device, acting as a redundant load balancing peer, is available on the network and therefore a redundant peering relationship can be initiated.

Recommended Action No action is required.

Load Balancer Resource state change

Message Load Balancer Resource <resource-name> state change, state UP -> state CLOSING

Load Balancer Resource <resource-name> state change, state CLOSING -> state DOWN

Load Balancer Resource <resource-name> state change, state UP -> state DOWN

| Severity | Module | Type | Subtype |
|-------------|--------|---------|--------------|
| 5/IMPORTANT | 104/LB | 54/LBAL | 008/RESSTATE |

Explanation The Load Balancer resource has changed state to closing or down.

Either:

- the connection to the resources has gone down, or
- the resources themselves have all become unavailable, because they have failed or are too busy to respond.

Recommended Action Restore the connection between the load balancer and the resources, restart the resources (if they have become unavailable), or wait for the resources to become less busy. Then either wait for the resources to be marked up again by the load balancer, or set all the resources to up using the command:

```
enable loadbalancer resource
```

Message Load Balancer Resource <resource-name> state change, state CLOSING -> state UP

Load Balancer Resource <resource-name> state change, state DOWN -> state UP

| Severity | Module | Type | Subtype |
|----------|--------|---------|--------------|
| 3/INFO | 104/LB | 54/LBAL | 008/RESSTATE |

Explanation The Load Balancer resource has changed state from closing or down to up, so the resource has become available.

Recommended Action No action is necessary.

Virtual Balancer could not allocate resource

Message Virtual Balancer <*virtual-balancer-name*> could not allocate a resource for client <*client-ip-address*>

| Severity | Module | Type | Subtype |
|-------------|--------|---------|--------------|
| 5/IMPORTANT | 104/LB | 54/LBAL | 008/RESSTATE |

Explanation None of the resources in the resource pool associated with the virtual balancer handling a client connection could accept the connection.

Recommended Action Check all resources, and enable any that are down using the command:

```
enable loadbalancer resource
```

Virtual Balancer state change

Message Virtual Balancer <*virtual-balancer-name*> state change, state UP -> state CLOSING

Virtual Balancer <*virtual-balancer-name*> state change, state CLOSING -> state DOWN

Virtual Balancer <*virtual-balancer-name*> state change, state UP -> state DOWN

| Severity | Module | Type | Subtype |
|-------------|--------|---------|---------------|
| 5/IMPORTANT | 104/LB | 54/LBAL | 009/VIRTSTATE |

Explanation The virtual balancer has changed state to closing or down.

Recommended Action If this is intended behaviour, no action is necessary. To return the virtual balancer to the up state, use the ENABLE LOADBALANCER VIRTUALBALANCER command.

Message Virtual Balancer <*virtual-balancer-name*> state change, state CLOSING -> state UP

Virtual Balancer <*virtual-balancer-name*> state change, state DOWN -> state UP

| Severity | Module | Type | Subtype |
|----------|--------|---------|---------------|
| 3/INFO | 104/LB | 54/LBAL | 009/VIRTSTATE |

Explanation The virtual balancer has changed state from closing or down to up.

Recommended Action No action is required.

Module: CFLA

CompactFlash

This chapter contains messages belonging to the module CFLA, sorted into the following Types:

- ["FILE \(048\): File System" on page 393](#)
- ["CFLASH: CompactFlash" on page 395](#)

For more information about CompactFlash support, see the *Managing the File System* chapter in the *Software Reference*.

Type: FILE (048) File System

Error adding file directory

Message Error adding file directory <hexadecimal-number>

| Severity | Module | Type | Subtype |
|----------|------------|------|---------|
| 6/URGENT | 106/CFLASH | 048 | 001 |

Explanation The newly created file handle was already on the list of files. This error is generated adding either a file or a directory to the software directory listing that the file has been physically added to the CompactFlash card.

Recommended Action Remove and replace the CompactFlash card to refresh the file list.

Error deleting file directory

Message Error deleting file directory <hexadecimal-number>

| Severity | Module | Type | Subtype |
|----------|------------|------|---------|
| 6/URGENT | 106/CFLASH | 048 | 001 |

Explanation The file pointer was not on the list of files when it was expected. This error is generated deleting either a file or a directory. The physical delete has occurred and the update of the software directory listing has failed.

Recommended Action Remove and replace the CompactFlash card to refresh the file list.

Error open file

Message Error open file <file-name>.<extension>

| Severity | Module | Type | Subtype |
|----------|------------|------|---------|
| 6/URGENT | 106/CFLASH | 048 | 001 |

Explanation The file could not be opened due to another failure. A message will be output indicating this failure.

Recommended Action Replace the CompactFlash card.

Error reading file

Message Error reading file <*file-name*>.<*extension*>

| Severity | Module | Type | Subtype |
|----------|------------|------|---------|
| 6/URGENT | 106/CFLASH | 048 | 001 |

Explanation The file could not be read due to another error.

Recommended Action Replace the CompactFlash card.

Type: CFLASH CompactFlash

CompactFlash card detected by software

Message Compact flash card detected by software

| Severity | Module | Type | Subtype |
|----------|------------|-----------|------------|
| 3/INFO | 106/CFLASH | 058/CFLAS | 003/INCARD |

Explanation A CompactFlash card was inserted.

Recommended Action No action is required.

CompactFlash card removed

Message Compact flash card removed

| Severity | Module | Type | Subtype |
|----------|------------|-----------|-------------|
| 3/INFO | 106/CFLASH | 058/CFLAS | 004/OUTCARD |

Explanation A CompactFlash card was removed.

Recommended Action No action is required.

Directory already exists

Message Directory <directory-name> already exists

| SEVERITY | Module | Type | Subtype |
|-------------|------------|-----------|-------------|
| 5/IMPORTANT | 106/CFLASH | 058/CFLAS | 005/DIRFAIL |

Explanation The user tried to create a directory that already exists.

Recommended Action Specify a different directory name.

Failed to find cluster entry

Message Failed to find the cluster entry for the current directory

| Severity | Module | Type | Subtype |
|----------|------------|------------|-------------|
| 6/URGENT | 106/CFLASH | 058/CFLASH | 005/DIRFAIL |

Explanation The FAT table entry for the current directory could not be found. This usually occurs because the CompactFlash card is incorrectly formatted or has become corrupted.

Recommended Action Replace the CompactFlash card with a correctly formatted CompactFlash card.

No free entries in root directory

Message No free entries in root directory

| Severity | Module | Type | Subtype |
|----------|------------|------------|-------------|
| 6/URGENT | 106/CFLASH | 058/CFLASH | 005/DIRFAIL |

Explanation There is a fixed limit on the number of entries, files or directories, in the root directory. This is dependant on the size of a cluster; a typical number is 512.

Recommended Action Delete some files from the root directory.

Not enough free space for directory

Message Not enough free space for directory

| Severity | Module | Type | Subtype |
|----------|------------|------------|-------------|
| 6/URGENT | 106/CFLASH | 058/CFLASH | 005/DIRFAIL |

Explanation There was not enough free space found to create a directory entry on the CompactFlash card. At least one free cluster is required to create a file or directory.

Recommended Action Delete some files from the CompactFlash card to create space.

Received error from card waiting for confirmation

Message Received error from card waiting for confirmation, sector *<current-sector-being-read>* status reg *<status-register-value>*

| Severity | Module | Type | Subtype |
|----------|------------|------------|---------------|
| 6/URGENT | 106/CFLASH | 058/CFLASH | 002/WRITEFAIL |

Explanation The CompactFlash card reported an error during the confirmation of a write operation.

Recommended Action Replace the CompactFlash card.

Received error from card waiting for status reg

Message Received error from card waiting for status reg, sector *<current-sector-being-read>* status reg *<status-register-value>*

| Severity | Module | Type | Subtype |
|----------|------------|------------|--------------|
| 6/URGENT | 106/CFLASH | 058/CFLASH | 001/READFAIL |

Explanation The CompactFlash card reported an error. Refer to the CompactFlash card vendor's datasheet for status values.

Recommended Action Replace the CompactFlash card.

Timed out waiting for confirmation

Message Timed out waiting for confirmation, sector *<current-sector-being-read>* status reg *<status-register-value>*

| Severity | Module | Type | Subtype |
|----------|------------|------------|---------------|
| 6/URGENT | 106/CFLASH | 058/CFLASH | 002/WRITEFAIL |

Explanation The CompactFlash card did not complete the confirmation of a write operation.

Recommended Action Replace the CompactFlash card.

Timed out waiting for status reg

Message Timed out waiting for status reg, sector *<current-sector-being-read>* status reg *<status-register-value>*

| Severity | Module | Type | Subtype |
|----------|------------|------------|--------------|
| 6/URGENT | 106/CFLASH | 058/CFLASH | 001/READFAIL |

Explanation The CompactFlash card did not complete the operation. This usually indicates a faulty or mis-inserted card.

Recommended Action Replace the CompactFlash card.

Module: ALAR

System Alarms

This chapter contains messages belonging to the module ALAR, sorted into the following Types:

- ["SYSINFO: System Status and Alarms" on page 400](#)

For more information about the alarms, see the *Configuring and Monitoring the System* chapter in the *Software Reference*.

Type: **SYSINFO**

System Status and Alarms

Alarm has activated

Message Major alarm has activated due to `<reason>`

Minor alarm has activated due to `<reason>`

| Severity | Module | Type | Subtype |
|----------|----------|-------------|-----------|
| 6/URGENT | 107/ALAR | 051/SYSINFO | 004/ALARM |

Explanation An alarm has been activated. An alarm is a relay which may be used to drive external alarm devices such as flashing lights or sirens.

Recommended Action If the alarms are being used to drive an external alarm device, action may already have been taken. To display the exact event that occurred, enter the command:

```
show alarm
```

Alarm has deactivated

Message Major alarm has deactivated due to `<reason>`

Minor alarm has deactivated due to `<reason>`

| Severity | Module | Type | Subtype |
|-------------|----------|-------------|-----------|
| 5/IMPORTANT | 107/ALAR | 051/SYSINFO | 004/ALARM |

Explanation An alarm has been deactivated. An alarm is a relay which may be used to drive external alarm devices such as flashing lights or sirens.

Recommended Action Alarm deactivation does not require action, as deactivation represents the clearing of an alarm condition that required action.

Module: SSL

Secure Socket Layer

This chapter contains messages belonging to the module SSL, sorted into the following Types:

- ["SSL: Secure Sockets Layer" on page 402](#)

For more information about SSL, see the *Secure Socket Layer (SSL)* chapter in the *Software Reference*.

Type: SSL

Secure Sockets Layer

Handshake failed

Message The handshake initiated by <remote-ip-address> failed

| Severity | Module | Type | Subtype |
|----------|---------|---------|------------|
| 4/NOTICE | 108/SSL | 056/SSL | 001/HSFAIL |

Explanation The SSL handshake failed. The connection will be closed after a fatal alert has been sent.

Recommended Action Investigate the cause of the failure using the commands:

```
enable ssl debug
show ssl [counters]
```

Failed to establish resources for encryption/decryption

Message Failed to establish resources for encryption/decryption

| Severity | Module | Type | Subtype |
|----------|---------|---------|------------|
| 4/NOTICE | 108/SSL | 056/SSL | 003/NOENCO |

Explanation SSL failed to establish resources for encryption or decryption from ENCO.

Recommended Action Investigate why encryption/decryption resources were not available using the commands:

```
show enco
show enco counters
```

Server failed to load certificate

Message The server failed to load a certificate

| Severity | Module | Type | Subtype |
|----------|---------|---------|------------|
| 4/NOTICE | 108/SSL | 056/SSL | 005/NOCERT |

Explanation The PKI certificate required by the SSL Server was not found. The HTTP and LOADBALANCER commands use the SSL KEY parameter as a reference to the certificate. The SSL KEY is the ENCO KEY that was used to create the certificate. If the SSL KEY has changed since the certificate was created then SSL will fail to find the certificate.

Recommended Action Ensure that the certificate has been correctly set up, using the commands:

```
show pki cert
show enco key
```

Note that if system security is disabled, ENCO keys are lost when the device restarts. If another ENCO key is created, it will no longer match the key specified for the PKI certificate.

Session resumption cache is full

Message The session resumption cache is full

| Severity | Module | Type | Subtype |
|----------|---------|---------|-------------|
| 4/NOTICE | 108/SSL | 056/SSL | 002/SDBFULL |

Explanation The SSL caches negotiated sessions so that they can be quickly re-established. A session could not be added to the session resumption cache because the cache is full. If the SSL client attempts to re-establish a session that is not in the cache using the abbreviated handshake sequence then the SSL server will force the client to use a full handshake sequence (the handshake will still work).

Recommended Action No action is required. To show the number of entries in the cache, use the command:

```
show ssl
```

To show detailed information about the SSL sessions stored in the session resumption caches, use the command:

```
show ssl sessions
```

To specify the maximum time that a session is retained in the cache and the maximum number of sessions allowed in the cache, use the command:

```
set ssl [cachetimeout=cache-timeout]
       [maxsessions=max-sessions]
```

Module: DS3

DS3 Driver

This chapter contains messages belonging to the module DS3, sorted into the following Types:

- [“PINT: Physical Layer Interfaces” on page 405](#)

For more information about DS3, see the *Interfaces* chapter in the *Software Reference*.

Type: PINT

Physical Layer Interfaces

DS3: AIS cleared

Message DS3 (<interface>): AIS Cleared

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 6/URGENT | 109/DS3 | 002/PINT | 001/UP |

Explanation The DS3 interface is no longer receiving the Alarm Indication Signal. This indicates that the device at the remote end is operating normally again.

Recommended Action No action is required.

DS3: AIS set

Message DS3 (<interface>): AIS Set

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 6/URGENT | 109/DS3 | 002/PINT | 002/DOWN |

Explanation The DS3 interface is receiving the Alarm Indication Signal. This signal is injected by the device at the remote end of the DS3 link to indicate a failure condition on the device or to indicate that the device has been removed from service.

Recommended Action Contact the service personnel responsible for the device at the remote end of the DS3 link.

DS3: IDLE cleared

Message DS3<interface>: IDLE Cleared

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 6/URGENT | 109/DS3 | 002/PINT | 003/WARN |

Explanation The Idle signal has been cleared.

Recommended Action No action is required.

DS3: IDLE set

Message DS3<*interface*>: IDLE Set

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 6/URGENT | 109/DS3 | 002/PINT | 003/WARN |

Explanation The remote end has inserted the Idle signal into the DS3 signal.

Recommended Action If this is expected behaviour, no action is required. If this is unexpected or unwelcome behaviour, contact the service personnel at the remote end.

DS3: interface has been reset

Message DS3<*interface*>: Interface has been reset

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 6/URGENT | 109/DS3 | 002/PINT | 003/WARN |

Explanation The DS3 interface has been manually reset by the user.

Recommended Action No action is required.

DS3: interface is now operational

Message DS3<*interface*>: Interface is now operational

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 6/URGENT | 109/DS3 | 002/PINT | 001/UP |

Explanation The DS3 interface is now ready to provide service to higher layers (either PPP or Frame Relay).

Recommended Action No action is required.

DS3: LOF cleared

Message DS3<*interface*>: LOF Cleared

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 6/URGENT | 109/DS3 | 002/PINT | 001/UP |

Explanation The Loss of Framing indication on the DS3*n* interface has been removed.

Recommended Action No action is required.

DS3: LOF set

Message DS3<*interface*>: LOF Set

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 6/URGENT | 109/DS3 | 002/PINT | 002/DOWN |

Explanation The DS3 interface has received a signal with corrupt framing bits. Possible reasons for this include:

- Excessive noise on the physical link between the interface and the remote end.
- A faulty interface card.
- The interface has been placed in an internal looparound mode but the clocking has been set to loop timing.
- The clocking has been set to loop timing but the interface is not receiving and accurate timing signal from the remote end.

Recommended Action 1) If the interface has been set to an internal looparound mode, ensure the clock is set to internal using the command

```
show ds3=instance state
```

If the clock is not set to internal then set it to internal using the command

```
set ds3=instance clock=internal
```

2) Set the interface into internal clocking mode (see above) and switch on the internal looparound using the command

```
set ds3=instance test=3
```

If the LOF disappears suspect the remote end or the transmission equipment between the two interfaces.

3) Contact your authorised Allied Telesis distributor or reseller.

DS3: loopback activated

Message DS3<*interface*>: Line loopback activated
 DS3<*interface*>: Diagnostic loopback activated
 DS3<*interface*>: payload loopback activated

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 6/URGENT | 109/DS3 | 002/PINT | 003/WARN |

Explanation The user has manually activated a loopback.

Recommended Action No action is required.

DS3: loopback deactivated

Message DS3<*interface*>: Line loopback deactivated
 DS3<*interface*>: Diagnostic loopback deactivated
 DS3<*interface*>: payload loopback deactivated

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 6/URGENT | 109/DS3 | 002/PINT | 003/WARN |

Explanation The user has manually deactivated a loopback.

Recommended Action No action is required.

DS3: LOS cleared

Message DS3 (<*interface*>): LOS Cleared

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 6/URGENT | 109/DS3 | 002/PINT | 001/UP |

Explanation The DS3 interface now recognises the incoming signal as a DS3 signal.

Recommended Action No action is required.

DS3: LOS set

Message DS3 (<interface>): LOS Set

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 6/URGENT | 109/DS3 | 002/PINT | 002/DOWN |

Explanation The DS3 interface can no longer recognise the incoming signal as a DS3 signal. This usually means the incoming signal has been severed physically but could also mean equipment failure.

Recommended Action Place the DS3 interface in Diagnostic Loopback mode, using the command:

```
enable ds3=instance test=3
```

- If the LOS persists, the DS3 Network Service feature (NSM) may be faulty. Replace the NSM. Contact your authorised Allied Telesis distributor or reseller. If the LOS alarm is not present in internal loopback mode, either the device at the remote end of the link has failed, or the physical link has failed.
- Contact the service personnel responsible for the device at the remote end of the DS3 link.
- If this does not resolve the issue, contact the service provider for the physical link.

DS3: RAI cleared

Message DS3<interface>: RAI Cleared

| Severity | Module | Type | Subtype |
|----------|---------|----------|---------|
| 6/URGENT | 109/DS3 | 002/PINT | 001/UP |

Explanation The Remote Alarm Indication has been removed.

Recommended Action No action is required.

DS3: RAI set

Message DS3<*interface*>: RAI Set

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 6/URGENT | 109/DS3 | 002/PINT | 002/DOWN |

Explanation The DS3 interface has received a Remote Alarm Indication signal. This occurs because the remote end is receiving either Loss Off Signal (LOS), Loss Of Framing (LOF), or Alarm Indication Signal (AIS).

Recommended Action 1) Contact the service personnel for the equipment at the remote end. If they are receiving LOS or LOF they should take appropriate action. If they are receiving AIS, ensure the AIS test is not switched on using the command:

```
show ds3=instance test
```

If the AIS test is switched on, switch it off using the command:

```
disable ds3=instance test=9
```

2) Contact your authorised Allied Telesis distributor or reseller.

DS3: threshold crossing alert

Message DS3<interface>: <performance-parameter> Threshold Crossing Alert, <near/far-end>, <interval>

| Severity | Module | Type | Subtype |
|----------|---------|----------|----------|
| 6/URGENT | 109/DS3 | 002/PINT | 003/WARN |

Explanation The DS3 interface is reporting a Threshold Crossing Alert, because one of the performance parameters (Table 2) has crossed a 15 minute or 24 hour interval threshold at the near or far end.

Table 2: Performance parameters in DS3: Threshold Crossing Alert log messages

| Performance Parameter | Meaning |
|-----------------------|--|
| PESs | The trigger was caused by the P-bit Errored Seconds parameter counter exceeding a specified threshold. |
| PSEs | The trigger was caused by the P-bit Severely Errored Seconds parameter counter exceeding a specified threshold. |
| SEFs | The trigger was caused by the Severely Errored Framing Seconds parameter counter exceeding a specified threshold. |
| UASs | The trigger was caused by the UnAvailable Seconds parameter counter exceeding a specified threshold. |
| LCVs | The trigger was caused by the Line Coding Violations primitive counter exceeding a specified threshold. |
| PCVs | The trigger was caused by the P-bit Coding Violations primitive counter exceeding a specified threshold. |
| LEs: PSEs | The trigger was caused by the Line Error Seconds parameter and the PSEs parameter counters exceeding specified thresholds. |
| CCVs | The trigger was caused by the C-bit Coding Violations primitive counter exceeding a specified threshold. |
| CEs | The trigger was caused by the C-bit Errored Seconds parameter counter exceeding a specified threshold. |
| CSEs | The trigger was caused by the C-bit Severely Errored Seconds parameter counter exceeding a specified threshold. |

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Module: VOIP

Voice Over IP

This chapter contains messages belonging to the module VOIP, sorted into the following Types:

- ["Voice Over IP" on page 413](#)

This section describes log messages and recommended actions related to Voice over IP (VOIP). For more information about VoIP, see the *Voice Over IP (VOIP)* chapter in the *Software Reference*.

Type: VOIP Voice Over IP

PIC: application code is running

Message PIC *<engine-name>*: application code *<file-name>* is running

| Severity | Module | Type | Subtype |
|----------|----------|----------|-----------------|
| 3/INFO | 110/VOIP | 059/VOIP | 002/APPLICATION |

Explanation The downloaded application file is running on the VoIP PIC.

Recommended Action No action is required.

PIC: call established

Message PIC *<engine-name>*: *<call-type>* call established

| Severity | Module | Type | Subtype |
|----------|----------|----------|----------|
| 3/INFO | 110/VOIP | 059/VOIP | 003/CALL |

Explanation There is a call established for the VoIP PIC. The call type is specified.

Recommended Action No action is required.

PIC: Disconnect Call

Message PIC <engine-name>: Disconnect Call (<reason-code>)

| Severity | Module | Type | Subtype |
|----------|----------|----------|----------|
| 3/INFO | 110/VOIP | 059/VOIP | 003/CALL |

Explanation The call was disconnected. The following table lists possible reason codes:

| Code | Description |
|------|--------------------------------------|
| 0 | Normal call clear. |
| 1 | Unreachable destination. |
| 2 | Destination rejection. |
| 3 | No permission. |
| 4 | No acceptable. |
| 5 | Bad format address. |
| 6 | In configuration. |
| 7 | Undefined reason. |
| 8 | Route call to proxy. |
| 9 | Call forwarded. |
| 10 | Security denied. |
| 11 | Called party number not registered. |
| 12 | Calling party number not registered. |
| 13 | Called party number release. |
| 14 | Calling party number release. |
| 15 | User busy |

Recommended Action No action is required.

PIC: Discovery Registration

Message PIC <engine-name>: Discovery Registration

| Severity | Module | Type | Subtype |
|----------|----------|----------|------------------|
| 3/INFO | 110/VOIP | 059/VOIP | 005/REGISTRATION |

Explanation The VoIP PIC has requested registration.

Recommended Action No action is required.

PIC: Error Call

Message PIC <engine-name>: Error Call (<error-code>)

| Severity | Module | Type | Subtype |
|----------|----------|----------|----------|
| 3/INFO | 110/VOIP | 059/VOIP | 003/CALL |

Explanation An error has been encountered during the call. For information about the error code, see ["VoIP PIC Error Codes" on page 419](#).

Recommended Action Use the error code to investigate and fix the problem.

PIC: Incoming call present

Message PIC <engine-name>: Incoming call present

| Severity | Module | Type | Subtype |
|----------|----------|----------|----------|
| 3/INFO | 110/VOIP | 059/VOIP | 003/CALL |

Explanation There is an incoming call for the VoIP PIC.

Recommended Action Check that the phone connected to the VoIP PIC rings and functions correctly.

PIC: internal error

Message PIC <engine-name>: <error-message> internal error (<error-code>)

| Severity | Module | Type | Subtype |
|-------------|----------|----------|-----------|
| 5/IMPORTANT | 110/VOIP | 059/VOIP | 006/ERROR |

Explanation There is an internal error generated by VoIP PIC. For information about the error code, see ["VoIP PIC Error Codes" on page 419](#).

Recommended Action Use the error message to investigate the cause of the error. Contact your authorised Allied Telesis distributor or reseller if you require further assistance.

PIC: Off-Hook

Message PIC <engine-name>: Off-Hook

| Severity | Module | Type | Subtype |
|----------|----------|----------|----------|
| 3/INFO | 110/VOIP | 059/VOIP | 004/HOOK |

Explanation The telephone connected to the VoIP PIC is off-hook.

Recommended Action No action is required.

PIC: On-Hook

Message PIC <engine-name>: On-Hook

| Severity | Module | Type | Subtype |
|----------|----------|----------|----------|
| 3/INFO | 110/VOIP | 059/VOIP | 004/HOOK |

Explanation The telephone connected to the VoIP PIC is on-hook.

Recommended Action No action is required.

PIC: Outgoing call start

Message PIC <engine-name>: Outgoing call start

| Severity | Module | Type | Subtype |
|----------|----------|----------|----------|
| 3/INFO | 110/VOIP | 059/VOIP | 003/CALL |

Explanation The VoIP PIC is requesting a new outgoing call.

Recommended Action Wait for the ringing tone and the other end to accept the call.

PIC: Registered

Message PIC <engine-name>: Registered

| Severity | Module | Type | Subtype |
|----------|----------|----------|------------------|
| 3/INFO | 110/VOIP | 059/VOIP | 005/REGISTRATION |

Explanation The VoIP PIC is now registered.

Recommended Action No action is required. The VoIP telephone is now operational.

PIC: Unregistered

Message PIC <engine-name>: Unregistered

| Severity | Module | Type | Subtype |
|----------|----------|----------|------------------|
| 3/INFO | 110/VOIP | 059/VOIP | 005/REGISTRATION |

Explanation The VoIP PIC is not registered.

Recommended Action Make sure the registration server, such as the H323 gatekeeper, is reachable by the device. Make sure the telephone number you try to register is not already registered by another VoIP end point. If the telephone number is registered, try to use another telephone number.

Reset VOIP PIC because it failed to respond

Message Reset VOIP PIC <engine-name> because it failed to respond

| Severity | Module | Type | Subtype |
|-------------|----------|----------|-----------|
| 5/IMPORTANT | 110/VOIP | 059/VOIP | 006/ERROR |

Explanation The VoIP PIC did not respond to the device's request. Therefore, the PIC must be reset properly.

Recommended Action Reset the PIC using the command:

```
reset voip type
```

TFTP loading to PIC from ...

Message TFTP loading <file-name> to PIC <engine-name> from <tftp-server-ip-address>

| Severity | Module | Type | Subtype |
|----------|----------|----------|----------|
| 3/INFO | 110/VOIP | 059/VOIP | 001/TFTP |

Explanation Started downloading a file from the TFTP server to the VoIP PIC.

Recommended Action Wait until the firmware download from the TFTP server is completed.

TFTP loading to PIC from ... error

Message TFTP loading *<file-name>* to PIC *<engine-name>* from *<tftp-server-ip-address>* error (*<error-code>*)

| Severity | Module | Type | Subtype |
|-------------|----------|----------|----------|
| 5/IMPORTANT | 110/VOIP | 059/VOIP | 001/TFTP |

Explanation There is an error downloading the file from TFTP server to VoIP PIC. For information about the error code, see ["VoIP PIC Error Codes" on page 419](#).

Recommended Action Fix the problem indicated by the error code and restart the firmware download again.

TFTP loading to PIC from ... OK

Message TFTP loading *<file-name>* to PIC *<engine-name>* from *<tftp-server-ip-address>* OK

| Severity | Module | Type | Subtype |
|----------|----------|----------|----------|
| 3/INFO | 110/VOIP | 059/VOIP | 001/TFTP |

Explanation Downloading a file from the TFTP server to the VoIP PIC is finished.

Recommended Action Wait until downloaded firmware is executed by the VoIP PIC.

VOIP PIC: no valid IP address on public interface

Message VOIP PIC *<engine-name>* is enabled without a valid IP address assigned to the public interface

| Severity | Module | Type | Subtype |
|-------------|----------|----------|-----------|
| 5/IMPORTANT | 110/VOIP | 059/VOIP | 006/ERROR |

Explanation This message indicates the PIC is now enabled but the IP address assigned to the public interface is not yet resolved. The PIC is enabled with a dummy router IP, however all the outgoing traffic will be blocked until the IP address has been resolved.

Recommended Action Check that the process used to assign the IP address to the interface (e.g. DHCP) is operating correctly and in a timely manner.

VoIP PIC Error Codes

A number of VoIP messages refer to an error code. The following table lists the possible codes.

| Code | Description |
|-------------|--|
| 0 | No error. |
| 1 | Operation not permitted. |
| 2 | No such entity. |
| 3 | No such process. |
| 4 | Operation interrupted. |
| 5 | I/O error. |
| 9 | Bad file handler. |
| 11 | Try again later. |
| 12 | Out of memory. |
| 16 | Resource busy. |
| 18 | Cross-device link. |
| 19 | No such device. |
| 22 | Invalid argument. |
| 23 | Too many open files in system. |
| 24 | Too many open files. |
| 27 | File too large. |
| 28 | No space left on device. |
| 29 | Illegal seek. |
| 30 | Read-only file system. |
| 33 | Argument to math function outside valid. |
| 34 | Math result cannot be represented. |
| 35 | Resource deadlock would occur. |
| 38 | Function not implemented. |
| 60 | File name too long. |
| 95 | Not supported error. |
| 200 | End of file reached. |
| 201 | Operation not supported. |
| 202 | Device does not support this operation. |
| 300 | Device not configured. |
| 301 | Permission denied. |
| 302 | File exists. |
| 303 | Inappropriate ioctl for device. |
| 304 | Broken pipe. |
| 310 | Operation now in progress. |
| 311 | Operation already in progress. |

| Code | Description |
|-------------|--|
| 320 | Socket operation on non-socket. |
| 321 | Destination address required. |
| 322 | Message too long. |
| 323 | Protocol wrong type for socket. |
| 324 | Protocol not available. |
| 325 | Protocol not supported. |
| 326 | Socket type not supported. |
| 327 | Operation not supported. |
| 328 | Protocol family not supported. |
| 329 | Address family not supported by protocol family. |
| 330 | Address already in use. |
| 350 | Network is down. |
| 351 | Network is unreachable. |
| 352 | Network dropped connection on reset. |
| 353 | Software caused connection abort. |
| 354 | Connection reset by peer. |
| 355 | No buffer space available. |
| 356 | Socket is already connected. |
| 357 | Socket is not connected. |
| 358 | Can't send after socket shutdown. |
| 359 | Too many references: can't splice. |
| 360 | Operation timed out. |
| 361 | Connection refused. |
| 364 | Host is down. |
| 365 | No route to host. |
| 400 | TFTP file not found. |
| 401 | TFTP access violation. |
| 402 | TFTP disk full or allocation exceeded. |
| 403 | TFTP illegal operation. |
| 404 | TFTP unknown transfer ID. |
| 405 | TFTP file already exists. |
| 406 | TFTP no such user. |
| 407 | TFTP operation timed out. |
| 408 | TFTP some sort of network error. |
| 409 | TFTP invalid parameter. |
| 410 | TFTP protocol violation. |
| 411 | TFTP file is larger than buffer. |

Module: UPNP

Universal Plug and Play

This chapter contains messages belonging to the module UPNP, sorted into the following Types:

- [“UPNP: Universal Plug and Play” on page 422](#)

For more information about UPnP, see the *UPnP* chapter in the *Software Reference*.

Type: UPNP Universal Plug and Play

UPNP has been enabled

Message UPNP has been enabled

| Severity | Module | Type | Subtype |
|----------|----------|----------|------------|
| 3/INFO | 113/UPNP | 063/UPNP | 001/STATUS |

Explanation UPNP has been enabled using the enable command.

Recommended Action No action is required.

UPNP has been disabled

Message UPNP has been disabled

| Severity | Module | Type | Subtype |
|----------|----------|----------|------------|
| 3/INFO | 113/UPNP | 063/UPNP | 001/STATUS |

Explanation UPNP has been disabled using the disable command.

Recommended Action No action is required.

Module: PORT

Port Authentication

This chapter contains messages belonging to the module PORT, sorted into the following Types:

- ["PORTAUTH: Port Authentication" on page 424](#)

For more information about Port Authentication, see the *Port Authentication* chapter in the *Software Reference*.

Type: PORTAUTH Port Authentication

Auth Failure

Message Auth Failure: Port=<port-number> User=<user-name>
MAC=<supplicant-mac-address>

| Severity | Module | Type | Subtype |
|----------|--------------|--------------|----------|
| 3/INFO | 118/PORTAUTH | 064/PORTAUTH | 001/SUPP |

Explanation A supplicant port on the device has failed an authentication attempt.

Recommended Action Check that the supplicant user-name, password, encryption, and method parameters are set correctly. Check that the connected authenticator is configured to allow supplicant connections to authenticate.

Message Auth Failure: Port=<port-number> User=<user-name>
MAC=<supplicant-mac-address>

| Severity | Module | Type | Subtype |
|----------|--------------|--------------|----------|
| 3/INFO | 118/PORTAUTH | 064/PORTAUTH | 002/AUTH |

Explanation The supplicant connected to a single-supplicant or multi-supplicant authenticator port on the device has failed an authentication attempt.

Recommended Action Check that the supplicant is authorised to connect to the device. If the problem is persistent and the supplicant is known to be set up correctly, check that the authenticator user-name, password, encryption, and method parameters are set correctly. Also check that the RADIUS server is correctly configured.

Auth Success

Message Auth Success: Port=<port-number> User=<user-name>
MAC=<supplicant-mac-address>

| Severity | Module | Type | Subtype |
|----------|--------------|--------------|----------|
| 3/INFO | 118/PORTAUTH | 064/PORTAUTH | 001/SUPP |

Explanation A supplicant port on the device has been successfully authenticated.

Recommended Action No action is required.

Message Auth Success: Port=<port-number> User=<user-name>
MAC=<supplicant-mac-address>

| Severity | Module | Type | Subtype |
|----------|--------------|--------------|----------|
| 3/INFO | 118/PORTAUTH | 064/PORTAUTH | 002/AUTH |

Explanation The supplicant connected to a single-supplicant or multi-supplicant authenticator port on the device, has been successfully authenticated.

Recommended Action No action is required.

Config Change : port disabled

Message Config Change : <port-number> disabled

| Severity | Module | Type | Subtype |
|----------|--------------|--------------|---------|
| 3/INFO | 118/PORTAUTH | 064/PORTAUTH | 003/PAE |

Explanation PORTAUTH functionality is disabled.

Recommended Action No action is required.

Config Change : port enabled

Message Config Change : <port-number> enabled

| Severity | Module | Type | Subtype |
|----------|--------------|--------------|---------|
| 3/INFO | 118/PORTAUTH | 064/PORTAUTH | 003/PAE |

Explanation PORTAUTH functionality is enabled.

Recommended Action No action is required.

Internal System Error

Message Internal System Error : Error Number 0

| Severity | Module | Type | Subtype |
|------------|--------------|--------------|---------|
| 7/CRITICAL | 118/PORTAUTH | 064/PORTAUTH | 003/PAE |

Explanation An attempt to initialise internal port authentication data structures for a particular port has failed.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Message Internal System Error : Error Number 1

| Severity | Module | Type | Subtype |
|------------|--------------|--------------|---------|
| 7/CRITICAL | 118/PORTAUTH | 064/PORTAUTH | 003/PAE |

Explanation An attempt to create internal data structures for a multi-supPLICANT port on the device has failed.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Message Internal System Error : Error Number 2

| Severity | Module | Type | Subtype |
|------------|--------------|--------------|---------|
| 7/CRITICAL | 118/PORTAUTH | 064/PORTAUTH | 003/PAE |

Explanation Corruption of internal port authentication data structures for a port on the device has occurred.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Message Internal System Error : Error Number 3

| Severity | Module | Type | Subtype |
|------------|--------------|--------------|---------|
| 7/CRITICAL | 118/PORTAUTH | 064/PORTAUTH | 003/PAE |

Explanation An Authenticator PAE State Machine for a port defined as an authenticator is in an unknown state.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Message Internal System Error : Error Number 4

| Severity | Module | Type | Subtype |
|------------|--------------|--------------|---------|
| 7/CRITICAL | 118/PORTAUTH | 064/PORTAUTH | 003/PAE |

Explanation A Backend Authentication State Machine for a port defined as an authenticator is in an unknown state.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Message Internal System Error : Error Number 5

| Severity | Module | Type | Subtype |
|------------|--------------|--------------|---------|
| 7/CRITICAL | 118/PORTAUTH | 064/PORTAUTH | 003/PAE |

Explanation The Supplicant PAE State Machine for a port defined as a supplicant is in an unknown state.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Message Internal System Error : Error Number 6

| Severity | Module | Type | Subtype |
|------------|--------------|--------------|---------|
| 7/CRITICAL | 118/PORTAUTH | 064/PORTAUTH | 003/PAE |

Explanation Corruption has occurred while generating port authentication debug output.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Message Internal System Error : Error Number 7

| Severity | Module | Type | Subtype |
|------------|--------------|--------------|---------|
| 7/CRITICAL | 118/PORTAUTH | 064/PORTAUTH | 003/PAE |

Explanation Data corruption has occurred on an authenticator port while trying to authenticate a supplicant.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Message Internal System Error : Error Number 8

| Severity | Module | Type | Subtype |
|------------|--------------|--------------|---------|
| 7/CRITICAL | 118/PORTAUTH | 064/PORTAUTH | 003/PAE |

Explanation Data corruption has occurred on an supplicant port while attempting to authenticate.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Message Internal System Error : Error Number 9

| Severity | Module | Type | Subtype |
|------------|--------------|--------------|---------|
| 7/CRITICAL | 118/PORTAUTH | 064/PORTAUTH | 003/PAE |

Explanation An attempt to perform MD5 encryption on a packet transmitted by a supplicant port on the device has failed.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Message Internal System Error : Error Number 10

| Severity | Module | Type | Subtype |
|------------|--------------|--------------|---------|
| 7/CRITICAL | 118/PORTAUTH | 064/PORTAUTH | 003/PAE |

Explanation An attempt to reserve internal memory for use by port authentication has failed.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

No Authenticator Present

Message No Authenticator Present : Port=<port-number>

| Severity | Module | Type | Subtype |
|----------|--------------|--------------|----------|
| 3/INFO | 118/PORTAUTH | 064/PORTAUTH | 001/SUPP |

Explanation A port defined as a supplicant on the device has been unable to communicate with an authenticator and will now assume that its network link is not under 802.1x control.

Recommended Action No action is required.

No response from Auth Server

Message No response from Auth Server : Port=<port-number>

| Severity | Module | Type | Subtype |
|----------|--------------|--------------|----------|
| 3/INFO | 118/PORTAUTH | 064/PORTAUTH | 002/AUTH |

Explanation A port authentication message has been transmitted from a port on the device defined as a single-supplicant authenticator and has not received a timely response from the authentication server.

Recommended Action Check the connections between the device and the authentication server. Check that the authentication server is configured correctly both on the server itself and on the authenticator device. Check that a correct route exists between the authenticator and the authentication server.

Message No response from Auth Server : Port=<port-number>
MAC=<supplicant-mac-address>

| Severity | Module | Type | Subtype |
|----------|--------------|--------------|----------|
| 3/INFO | 118/PORTAUTH | 064/PORTAUTH | 002/AUTH |

Explanation A port authentication message has been transmitted from a port on the device defined as a multi-supplicant authenticator and has not received a timely response from the authentication server.

Recommended Action Check the connections between the device and the authentication server. Check that the authentication server is configured correctly both on the server itself and on the authenticator device. Check that a correct route exists between the authenticator and the authentication server.

No Response from Authenticator

Message No Response from Authenticator : Port=<port-number>

| Severity | Module | Type | Subtype |
|----------|--------------|--------------|----------|
| 3/INFO | 118/PORTAUTH | 064/PORTAUTH | 001/SUPP |

Explanation A port authentication message has been transmitted from a port on the device defined as a supplicant and has not received a timely response from the authenticator.

Recommended Action Check the connections between the authenticator and the supplicant. Check that the authenticator is configured correctly.

No response from Supplicant

Message No response from Supplicant : Port=<port-number>

| Severity | Module | Type | Subtype |
|----------|--------------|--------------|----------|
| 3/INFO | 118/PORTAUTH | 064/PORTAUTH | 002/AUTH |

Explanation A port authentication message has been transmitted from a port on the device defined as a single-supplicant authenticator and has not received a timely response from the supplicant.

Recommended Action Check the connections between the authenticator and the supplicant. Check that the supplicant is configured correctly.

Message No response from Supplicant : Port=<port-number>
MAC=<supplicant-mac-address>

| Severity | Module | Type | Subtype |
|----------|--------------|--------------|----------|
| 3/INFO | 118/PORTAUTH | 064/PORTAUTH | 002/AUTH |

Explanation A port authentication message has been transmitted from a port on the device defined as a multi-supplicant authenticator and has not received a timely response from a supplicant.

Recommended Action Check the connections between the authenticator and the specific supplicant. Check that the supplicant is configured correctly.

State Change: New State=Unauthorised

Message State Change : Port=<port-number> New State=Unauthorised

| Severity | Module | Type | Subtype |
|----------|--------------|--------------|----------|
| 3/INFO | 118/PORTAUTH | 064/PORTAUTH | 002/AUTH |

Explanation A port on the device defined as a single-supPLICANT authenticator has changed to the unauthorised state. Any connected devices will be denied access to the port.

Recommended Action No action is required.

Message State Change : Port=<port-number>
MAC=<supPLICANT-mac-address> New State=Unauthorised

| Severity | Module | Type | Subtype |
|----------|--------------|--------------|----------|
| 3/INFO | 118/PORTAUTH | 064/PORTAUTH | 002/AUTH |

Explanation A port on the device defined as a multi-supPLICANT authenticator has a connected supPLICANT which is now unauthorised and has no access to the port.

Recommended Action No action is required.

State Change: New State=Authorised

Message State Change : Port=<port-number> New State=Authorised

| Severity | Module | Type | Subtype |
|----------|--------------|--------------|----------|
| 3/INFO | 118/PORTAUTH | 064/PORTAUTH | 002/AUTH |

Explanation A port on the device defined as a single-supPLICANT authenticator has changed to the authorised state and the supPLICANT now has access to the port.

Recommended Action No action is required.

Message State Change : Port=<port-number>
MAC=<supPLICANT-mac-address> New State=Authorised

| Severity | Module | Type | Subtype |
|----------|--------------|--------------|----------|
| 3/INFO | 118/PORTAUTH | 064/PORTAUTH | 002/AUTH |

Explanation A port on the device, defined as a multi-supPLICANT authenticator has a connected supPLICANT which is now authorised and has access to the port.

Recommended Action No action is required.

Supplicant Logoff

Message Supplicant Logoff : Port=<*port-number*> User=<*user-name*>
MAC=<*supplicant-mac-address*>

| Severity | Module | Type | Subtype |
|----------|--------------|--------------|----------|
| 3/INFO | 118/PORTAUTH | 064/PORTAUTH | 002/AUTH |

Explanation An attached supplicant on a single-supplicant or multi-supplicant authenticator port has logged off.

Recommended Action No action is required.

Message Supplicant Logoff : Port=<*port-number*> User=<*user-name*>

| Severity | Module | Type | Subtype |
|----------|--------------|--------------|----------|
| 3/INFO | 118/PORTAUTH | 064/PORTAUTH | 001/SUPP |

Explanation A supplicant port on the device has logged off the authenticator.

Recommended Action No action is required.

Module: ADSL

Asymmetric Digital Subscriber Line

This chapter contains messages belonging to the module ADSL, sorted into the following Types:

- [“ADSL: Asymmetric Digital Subscriber Line” on page 434](#)

For more information about ADSL, see the *ATM over xDSL* chapter in the *Software Reference*.

Type: ADSL

Asymmetric Digital Subscriber Line

ABORT request failed

Message adsl0: ABORT request failed

| Severity | Module | Type | Subtype |
|-------------|----------|----------|-----------|
| 5/IMPORTANT | 121/ADSL | 073/ADSL | 001/FAULT |

Explanation The ADSL driver could not alter the current state of the ADSL chip set.

Recommended Action Try rebooting the device. If this continues to occur, contact your authorised Allied Telesis distributor or reseller.

Could not initialise GSV

Message adsl0: Could not initialise GSV

| Severity | Module | Type | Subtype |
|-------------|----------|----------|-----------|
| 5/IMPORTANT | 121/ADSL | 073/ADSL | 001/FAULT |

Explanation The ADSL driver could not initialise the ADSL chip set.

Recommended Action Try a cold reboot of the device, then test the interface using the **enable test** command. See the Test Facility chapter of the Software Reference for more information about testing interfaces. If the reboot and the test fail, contact your authorised Allied Telesis distributor or reseller.

Could not load DSP firmware

Message adsl0: Could not load DSP firmware

| Severity | Module | Type | Subtype |
|-------------|----------|----------|-----------|
| 5/IMPORTANT | 121/ADSL | 073/ADSL | 001/FAULT |

Explanation The ADSL driver could not upload the firmware to the ADSL chip set.

Recommended Action Try a cold reboot of the device, then test the interface using the **enable test** command. See the Test Facility chapter of the Software Reference for more information about testing interfaces. If the reboot and the test fail, contact your authorised Allied Telesis distributor or reseller.

Could not open WHIP socket

Message adsl0: Could not open WHIP socket

| Severity | Module | Type | Subtype |
|----------|----------|----------|----------|
| 4/NOTICE | 121/ADSL | 073/ADSL | 002/WHIP |

Explanation ADSL could not use the TCP port 8701 for WHIP, as another application is currently using it.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Fault recovery abandoned

Message adsl0: Fault recovery abandoned

| Severity | Module | Type | Subtype |
|-------------|----------|----------|-----------|
| 5/IMPORTANT | 121/ADSL | 073/ADSL | 001/FAULT |

Explanation The ADSL driver cannot remedy a fault within the ADSL chip set, despite attempting multiple times to reset the ADSL hardware.

Recommended Action Try a cold restart of the device. If this issue continues to occur, contact your authorised Allied Telesis distributor or reseller.

Fault recovery started

Message adsl0: Fault recovery started

| Severity | Module | Type | Subtype |
|-------------|----------|----------|-----------|
| 5/IMPORTANT | 121/ADSL | 073/ADSL | 001/FAULT |

Explanation The ADSL driver is currently remedying a fault with the ADSL chip set. To do this, the driver resets the ADSL hardware.

Recommended Action Check whether the ADSL driver has created a **fault recovery abandoned** log. If it has, follow the recommended action for that log. If it has not, then the ADSL driver successfully remedied the fault, and no action is required.

Hardware self-tests failed

Message adsl0: Hardware self-tests failed

| Severity | Module | Type | Subtype |
|-------------|----------|----------|-----------|
| 5/IMPORTANT | 121/ADSL | 073/ADSL | 001/FAULT |

Explanation The self tests that the ADSL driver hardware runs have failed. These tests occur when the ADSL driver uploads the firmware to the ADSL chip set.

Recommended Action Try resetting the ADSL instance. If this does not work, try rebooting the device. If this issue continues to occur, contact your authorised Allied Telesis distributor or reseller.

Line connected

Message adsl0: Line connected

| Severity | Module | Type | Subtype |
|----------|----------|----------|----------|
| 3/INFO | 121/ADSL | 073/ADSL | 003/LINE |

Explanation The specified ADSL interface has successfully connected to your service provider.

Recommended Action No action is required.

Line disabled

Message adsl0: Line disabled

| Severity | Module | Type | Subtype |
|----------|----------|----------|----------|
| 3/INFO | 121/ADSL | 073/ADSL | 003/LINE |

Explanation The specified ADSL interface is disabled. ADSL interfaces are disabled using the **disable adsl** command.

Recommended Action No action is required.

Line disconnected

Message adsl0: Line disconnected

| Severity | Module | Type | Subtype |
|----------|----------|----------|----------|
| 3/INFO | 121/ADSL | 073/ADSL | 003/LINE |

Explanation The specified ADSL interface has disconnected from your service provider.

Recommended Action No action is required if this is expected. If this is unexpected, investigate the interface's status by:

- using the **show adsl** command
- checking the physical connection between the device and the ATM service provider
- checking the log messages recently generated for ATM and the physical interface

Line enabled

Message adsl0: Line enabled

| Severity | Module | Type | Subtype |
|----------|----------|----------|----------|
| 3/INFO | 121/ADSL | 073/ADSL | 003/LINE |

Explanation The specified ADSL interface is enabled. ADSL interfaces are enabled automatically on the device. Previously disabled ADSL interfaces are enabled using the **enable adsl** command.

Recommended Action No action is required.

Line faults detected

Message adsl10: Line faults detected: <string>

| Severity | Module | Type | Subtype |
|----------|----------|----------|----------|
| 3/INFO | 121/ADSL | 073/ADSL | 003/LINE |

Explanation ADSL discovered the specified line faults. These faults can cause the line to disconnect, or may be caused by the line disconnecting. Use the following table to identify who detected the fault, and what type of fault occurred:

| String | Meaning |
|--------|---|
| ATU-R | ADSL Terminating Unit - Remote. This indicates that this device detected the fault. |
| LOS | Near-end Loss of Signal. |
| SEF | Near-end Severely Errored Frames. |
| NCD-I | Near-end No Cell Delineations for the interleaved data stream. |
| NCD-F | Near-end No Cell Delineations for the fast data stream. |
| LCD-I | Near-end Loss of Cell Delineations for the interleaved data stream. |
| LCD-F | Near-end Loss of Cell Delineations for the fast data stream. |
| ATU-C | ADSL Terminating Unit - Central. This indicates that the service provider detected the fault. |
| LPR | Far-end Dying Gasp frames. |
| LOS | Far-end Loss of Signal. |
| RDI | Far-end Severely Errored Frames |
| FNCD-I | Far-end No Cell Delineations for the interleaved data stream. |
| FNCD-F | Far-end No Cell Delineation for the fast data stream. |
| FLCD-I | Far-end Loss of Cell Delineations for the interleaved data stream. |
| FLCD-F | Far-end Loss of Cell Delineations for the fast data stream. |

Recommended Action No action is necessary, if this is expected. Otherwise, use the **show adsl counter** command to see detailed counters for faults on the ADSL line. Check the cabling between the device and your service provider. If these faults continue to cause the line to disconnect, contact your service provider and your authorised Allied Telesis distributor or reseller.

Line reset

Message adsl0: Line reset

| Severity | Module | Type | Subtype |
|----------|----------|----------|----------|
| 3/INFO | 121/ADSL | 073/ADSL | 003/LINE |

Explanation The specified ADSL interface was reset. ADSL interfaces are reset using the **reset adsl** command.

Recommended Action No action is required.

Rejecting incoming WHIP connection

Message adsl0: Rejecting incoming WHIP connection

| Severity | Module | Type | Subtype |
|----------|----------|----------|----------|
| 4/NOTICE | 121/ADSL | 073/ADSL | 002/WHIP |

Explanation A WHIP connection from a peer device failed.

Recommended Action Contact your authorised Allied Telesis distributor or reseller.

Remote WHIP connected

Message adsl0: Remote WHIP connected

| Severity | Module | Type | Subtype |
|----------|----------|----------|----------|
| 4/NOTICE | 121/ADSL | 073/ADSL | 002/WHIP |

Explanation A remote device has established a WHIP connection with this device.

Recommended Action No action is necessary if this is expected. Otherwise, contact your authorised Allied Telesis distributor or reseller.

Remote WHIP disconnected

Message adsl0: Remote WHIP disconnected

| Severity | Module | Type | Subtype |
|----------|----------|----------|----------|
| 4/NOTICE | 121/ADSL | 073/ADSL | 002/WHIP |

Explanation A remote device has ended a WHIP connection with this device.

Recommended Action No action is necessary if this is expected. Otherwise, contact your authorised Allied Telesis distributor or reseller.

Module: LLDP

Link Layer Discovery Protocol

This chapter contains messages belonging to the module LLDP, sorted into the following Types:

- [“LLDP: Link Layer Discovery Protocol” on page 442](#)

For more information about LLDP, see the *Link Layer Discovery Protocol* chapter in the *Software Reference*.

Type: LLDP

Link Layer Discovery Protocol

CDP Neighbour Add

Message CDP neighbour add: Name=<CDP neighbour name>
Interface=<interface>

| Severity | Module | Type | Subtype |
|----------|----------|----------|------------|
| 3/INFO | 132/LLDP | 078/LLDP | 001/CDPADD |

Explanation A new CDP neighbour has been added to the neighbour table.

Recommended Action No action is required.

CDP Neighbour Remove

Message CDP neighbour remove: Name=<CDP neighbour name>
Interface=<interface>

| Severity | Module | Type | Subtype |
|----------|----------|----------|---------------|
| 4/NOTICE | 132/LLDP | 078/LLDP | 002/CDPREMOVE |

Explanation A CDP neighbour has been removed from the neighbour table, either because information about it has timed out, or because a corresponding interface has gone down.

Recommended Action If this action was unexpected, check the device and/or its links to ensure that they are up.

Module: MACF

MAC-Forced Forwarding

This chapter contains messages belonging to the module MACF, sorted into the following Types:

- [“MACFF: MAC-Forced Forwarding” on page 444](#)

For more information about MACFF, see the *Mac-Forced Forwarding* chapter in the *Software Reference*.

Type: **MACFF** **MAC-Forced Forwarding**

Client ARP failed - no routers

Message Client <*client-ip-address*> ARP for
<*destination-ip-address*> failed - no routers

| Severity | Module | Type | Subtype |
|----------|-----------|----------|------------------|
| 4/NOTICE | 141/MACFF | 91/MACFF | 003/CLIENTNORTRS |

Explanation An ARP request from a client failed because there are no access routers associated with the client in the MAC-Forced Forwarding server database. This message is also generated when all routers associated with a client are removed from the MAC-Forced Forwarding server database.

Recommended Action Investigate the cause if this event is unexpected. Begin by determining whether the client is a static or dynamic entry in the server database, and checking whether it is configured correctly, by using the **show dhcpsnooping database** command.

- If the client is a static entry, then its access routers should be static entries in the server database. Check that these access routers are configured correctly, and check that they are accessible on the network, by using the **ping** command.
- If the client is a dynamic entry, check the status of the access routers attached to the network, by using the **ping** command. If there are no network connection problems, then the DHCPACK packet sent by the access routers may have incorrect information.

Investigate the problem further by checking the DHCP snooping logs, and checking the ARP entries on the device using the **show ip arp** command.

Client ARP failed - router ARP failed

Message Client <*client-ip-address*> ARP for <*destination-ip-address*> failed - router <*ip-address*> ARP failed

| Severity | Module | Type | Subtype |
|-------------|-----------|----------|------------------|
| 5/IMPORTANT | 141/MACFF | 91/MACFF | 004/RTRARPFAILED |

Explanation An ARP request from a client failed because the device could not resolve the MAC address of any access routers associated with the client.

Recommended Action Investigate by checking the status of the network with the **ping** command. If there are no network connection problems, check the ARP entries on the device using the **show ip arp** command. If this is occurring for a statically configured client, then check that the client, and access routers associated with the client, are correctly configured.

Dynamic MAC mismatch for server

Message Dynamic MAC mismatch for server <*server-ip-address*>, MAC was <*old-MAC-address*>

| Severity | Module | Type | Subtype |
|-------------|-----------|----------|--------------|
| 5/IMPORTANT | 141/MACFF | 91/MACFF | 007/MISMATCH |

Explanation The MAC address of a dynamic server entry has changed as the result of an ARP response.

Recommended Action Manual intervention may be required on the downstream clients to force them to refresh their ARP cache and use the new MAC address.

Log threshold exceeded

Message <MAC-Forced-forwarding-log> log threshold <threshold-value> exceeded (<log-count>)

| Severity | Module | Type | Subtype |
|-------------|-----------|----------|--------------|
| 5/IMPORTANT | 141/MACFF | 91/MACFF | 006/OVERFLOW |

Explanation One of the MAC-Forced Forwarding log types is generating an excessive amount of logs, and has reached the log threshold value. This triggers the device to temporarily reduce the number of these logs that it is generating. The device continues to reduce the number of logs generated for that log type as long as the threshold value is exceeded. The **log threshold exceeded** log is also generated each time the device checks the threshold value and finds that it is exceeded. Normal log generation recommences once the suspended log type is no longer above the threshold value.

Recommended Action Investigate why the device is generating the log type by checking the recommended action listed for the log message:

- **Client ARP failed - no routers**
- **Client ARP failed - router ARP failed**
- **New upstream server acquired**
- **Upstream server - cannot contact**
- **Upstream server lost**

New upstream server acquired

Message New upstream server acquired - <server-ip-address> (<server-MAC-address>) on <interface>

| Severity | Module | Type | Subtype |
|----------|-----------|----------|---------------|
| 3/INFO | 141/MACFF | 91/MACFF | 001/NEWSERVER |

Explanation The device has a new entry, either an access router or an application server, in the MAC-Forced Forwarding server database. MAC-Forced Forwarding acquires static entries when you use the **add macff server** command, and dynamic entries when DHCP Snooping checks the DHCPACK message sent to a client.

Recommended Action No action is required.

Static MAC mismatch for server

Message Static MAC mismatch for server `<server-ip-address>`, MAC was `<old-MAC-address>`

| Severity | Module | Type | Subtype |
|-------------|-----------|----------|--------------|
| 5/IMPORTANT | 141/MACFF | 91/MACFF | 007/MISMATCH |

Explanation A static server has been added, but the MAC address clashes with an existing dynamic entry. The new static entry will override the existing dynamic entry. Downstream clients will still have the old dynamic MAC address in their ARP cache and will not be able to communicate with upstream servers until their ARP cache is refreshed. This may require manual intervention.

Recommended Action Manual intervention may be required on the downstream clients to force them to refresh their ARP cache and use the new MAC address.

Upstream server - cannot contact

Message Upstream server - cannot contact `<server-ip-address>` (`<server-MAC-address>`) on `<interface>`

| Severity | Module | Type | Subtype |
|----------|-----------|----------|-----------------|
| 4/NOTICE | 141/MACFF | 91/MACFF | 005/LOSTCONTACT |

Explanation A background task that checks the entries listed in the MAC-Forced Forwarding server database cannot establish contact with the specified entry.

Recommended Action Investigate by checking the status of the network with the **ping** command. If there are no network connection problems, check the ARP entries on the device using the **show ip arp** command. If this is occurring for a statically configured entry, then check that the entry is correctly configured.

Upstream server lost

Message Upstream server lost - `<server-ip-address>` (`<server-MAC-address>`) on `<interface>`

| Severity | Module | Type | Subtype |
|----------|-----------|----------|----------------|
| 3/INFO | 141/MACFF | 91/MACFF | 002/LOSTSERVER |

Explanation MAC-Forced Forwarding has removed an entry from its server database. It removes dynamic entries when the access router no longer has any clients listed in the DHCP snooping database, and removes static entries when you use the **delete macff server** command to remove an entry.

Recommended Action No action is required.