

Bay Networks

The Merged Company of SynOptics and Wellfleet

Event Messages for Wellfleet Routers

Part No. 110071 A

Event Messages for Wellfleet Routers

Router Software Version 8.10
Site Manager Software Version 2.10

Part No. 110071 Rev. A
February 1995



Bay Networks

The Merged Company of SynOptics and Wellfleet

Copyright © 1995 Bay Networks, Inc.

All rights reserved. Printed in USA. February 1995.

The information in this document is subject to change without notice. This information is proprietary to Bay Networks, Inc.

The software described in this document is furnished under a license agreement or nondisclosure agreement and may only be used in accordance with the terms of that license. The terms of the Software License are provided with the documentation.

Restricted Rights Legend

Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013.

Notice for All Other Executive Agencies

Notwithstanding any other license agreement that may pertain to, or accompany the delivery of, this computer software, the rights of the Government regarding its use, reproduction, and disclosure are as set forth in the Commercial Computer Software-Restricted Rights clause at FAR 52.227-19.

Trademarks of Bay Networks, Inc.

ACE, BLN, BN, and Wellfleet are registered trademarks and AFN, AN, ANH, ASN, BCN, BCNX, BLNX, BNX, CN, FN, FRE, LN, PPX, Bay Networks, and the Bay Networks logo are trademarks of Bay Networks, Inc.

Third-Party Trademarks

3Com is a registered trademark of 3Com Corporation.

AIX, NetView, and IBM are registered trademarks of International Business Machines Corporation.

AppleTalk and EtherTalk are registered trademarks of Apple Computer, Inc.

AT&T and ST are registered trademarks of American Telephone and Telegraph Company.

DEC, DECnet, VAX, and VT100 are trademarks of Digital Equipment Corporation.

Distinct is a registered trademark and Distinct TCP/IP is a trademark of Distinct Corporation.

Fastmac and MADGE are trademarks of Madge Networks, Ltd.

Hayes is a registered trademark of Hayes Microcomputer Products, Inc.

HP is a registered trademark of Hewlett-Packard Company.

Intel is a registered trademark of Intel Corporation.

IPX, NetWare, and Novell are registered trademarks of Novell, Inc.

MCI is a registered trademark of MCI Communications Corporation.

Microsoft, MS, and MS-DOS are registered trademarks and Windows is a trademark of Microsoft Corporation.

Motif and OSF/Motif are registered trademarks of Open Software Foundation, Inc.

Motorola is a registered trademark of Motorola, Inc.

NetBIOS is a trademark of Micro Computer Systems, Inc.

Open Look and UNIX are registered trademarks of UNIX System Laboratories, Inc.

Sun and Solaris are registered trademarks and SPARCstation is a trademark of Sun Microsystems, Inc.

VINES is a registered trademark of Banyan Systems Incorporated.

X Window System is a trademark of the Massachusetts Institute of Technology.

Xerox is a registered trademark and XNS is a trademark of Xerox Corporation.

All other trademarks and registered trademarks are the property of their respective owners.

Bay Networks Software License

This Software License shall govern the licensing of all software provided to licensee by Bay Networks ("Software"). Bay Networks will provide licensee with Software in machine-readable form and related documentation ("Documentation"). The Software provided under this license is proprietary to Bay Networks and to third parties from whom Bay Networks has acquired license rights. Bay Networks will not grant any Software license whatsoever, either explicitly or implicitly, except by acceptance of an order for either Software or for a Bay Networks product ("Equipment") that is packaged with Software. Each such license is subject to the following restrictions:

1. Upon delivery of the Software, Bay Networks grants to licensee a personal, nontransferable, nonexclusive license to use the Software with the Equipment with which or for which it was originally acquired, including use at any of licensee's facilities to which the Equipment may be transferred, for the useful life of the Equipment unless earlier terminated by default or cancellation. Use of the Software shall be limited to such Equipment and to such facility. Software which is licensed for use on hardware not offered by Bay Networks is not subject to restricted use on any Equipment, however, unless otherwise specified on the Documentation, each licensed copy of such Software may only be installed on one hardware item at any time.
2. Licensee may use the Software with backup Equipment only if the Equipment with which or for which it was acquired is inoperative.
3. Licensee may make a single copy of the Software (but not firmware) for safekeeping (archives) or backup purposes.
4. Licensee may modify Software (but not firmware), or combine it with other software, subject to the provision that those portions of the resulting software which incorporate Software are subject to the restrictions of this license. Licensee shall not make the resulting software available for use by any third party.
5. Neither title nor ownership to Software passes to licensee.
6. Licensee shall not provide, or otherwise make available, any Software, in whole or in part, in any form, to any third party. Third parties do not include consultants, subcontractors, or agents of licensee who have licensee's permission to use the Software at licensee's facility, and who have agreed in writing to use the Software only in accordance with the restrictions of this license.

-
7. Third-party owners from whom Bay Networks has acquired license rights to software that is incorporated into Bay Networks products shall have the right to enforce the provisions of this license against licensee.
 8. Licensee shall not remove or obscure any copyright, patent, trademark, trade secret, or similar intellectual property or restricted rights notice within or affixed to any Software and shall reproduce and affix such notice on any backup copy of Software or copies of software resulting from modification or combination performed by licensee as permitted by this license.
 9. Licensee shall not reverse assemble, reverse compile, or in any way reverse engineer the Software. [Note: For licensees in the European Community, the Software Directive dated 14 May 1991 (as may be amended from time to time) shall apply for interoperability purposes. Licensee must notify Bay Networks in writing of any such intended examination of the Software and Bay Networks may provide review and assistance.]
 10. Notwithstanding any foregoing terms to the contrary, if licensee licenses the Bay Networks product "Site Manager," licensee may duplicate and install the Site Manager product as specified in the Documentation. This right is granted solely as necessary for use of Site Manager on hardware installed with licensee's network.
 11. This license will automatically terminate upon improper handling of Software, such as by disclosure, or Bay Networks may terminate this license by written notice to licensee if licensee fails to comply with any of the material provisions of this license and fails to cure such failure within thirty (30) days after the receipt of written notice from Bay Networks. Upon termination of this license, licensee shall discontinue all use of the Software and return the Software and Documentation, including all copies, to Bay Networks.
 12. Licensee's obligations under this license shall survive expiration or termination of this license.

Contents

Chapter 1

Overview

What Is an Event?	1-2
How Do I View Event Messages?	1-2
Event Message Format	1-2
Severity Levels	1-3
Entities	1-3

Chapter 2

Wellfleet Event Messages

ACE Events	2-1
Fault Events	2-1
Warning Events	2-2
APPLETALK Events	2-3
Fault Event	2-3
Warning Events	2-3
Info Events	2-14
Trace Events	2-17

APPN Events	2-18
Fault Event	2-18
Warning Events	2-19
Info Events	2-28
ARP Events	2-34
Warning Events	2-34
Info Events	2-34
ASYNCR Events	2-35
Fault Event	2-35
Warning Events	2-35
Info Events	2-37
ATM Events	2-38
Fault Event	2-38
Warning Events	2-39
Info Events	2-41
Trace Events	2-43
ATM_DXI Events	2-44
Fault Event	2-44
Warning Events	2-44
Info Events	2-48
Trace Events	2-52
ATMINTF Events	2-55
Fault Event	2-55
Warning Event	2-56
Info Event	2-62

BGP Events	2-66
Fault Event	2-66
Warning Events	2-66
Info Events	2-83
BGP3 Events	2-84
Fault Event	2-84
Warning Events	2-84
Info Events	2-85
BGP4 Events	2-85
Fault Event	2-85
Warning Events	2-86
Info Events	2-86
BOD Events	2-87
Fault Event	2-87
Info Events	2-87
Trace Events	2-92
BOOT Events	2-93
Fault Event	2-93
Warning Events	2-93
BOOTP Events	2-96
Fault Events	2-96
Warning Events	2-97
Info Events	2-100

CSMA/CD Events	2-102
Fault Event	2-102
Warning Events	2-102
Info Events	2-106
Data Compression Events	2-107
Fault Event	2-107
Warning Events	2-108
Info Events	2-109
DECNET Events	2-110
Fault Event	2-110
Warning Events	2-110
Info Events	2-115
Trace Events	2-116
Dial Services Events	2-118
Fault Event	2-119
Warning Event	2-119
Info Events	2-119
Trace Events	2-133
DLS Events	2-138
Fault Event	2-138
Warning Event	2-139
Info Events	2-139
Trace Events	2-140
DMAP Event	2-142
Fault Event	2-142

DOS Events	2-142
Fault Events	2-142
Info Events	2-145
DP Events	2-148
Fault Event	2-148
Warning Events	2-149
Info Events	2-151
Trace Events	2-153
DS1E1 Events	2-155
Fault Event	2-155
Warning Events	2-155
Info Events	2-162
DVMRP Events	2-166
Fault Event	2-166
Warning Event	2-166
Information Events	2-167
E1 Events	2-167
Fault Event	2-168
Warning Events	2-168
Info Events	2-169
EGP Events	2-172
Fault Event	2-172
Warning Events	2-173
Info Events	2-179

FDDI Events	2-181
Fault Events	2-181
Warning Events	2-183
Info Events	2-191
FLOP Events	2-194
Fault Event	2-194
Warning Events	2-194
FR Events	2-200
Fault Event	2-200
Warning Events	2-200
Info Events	2-203
Trace Events	2-207
FS Events	2-224
Fault Event	2-224
FTP Events	2-224
Fault Event	2-224
Information Events	2-225
Trace Events	2-227
GAME Events	2-227
Fault Events	2-227
Warning Events	2-233
Info Events	2-236
Trace Events	2-238

HSSI Events	2-238
Fault Event	2-238
Warning Events	2-238
Info Events	2-240
HWF Events	2-241
Warning Events	2-241
Info Events	2-242
IGMP Events	2-244
Fault Events	2-244
Information Events	2-244
IP Events	2-246
Fault Event	2-246
Warning Events	2-247
Info Events	2-254
IPX Events	2-256
Warning Events	2-256
Info Events	2-259
Trace Events	2-263
ISDN Events	2-265
Fault Event	2-265
Warning Events	2-266
Info Events	2-266
Trace Events	2-267

ISDN BRI Events	2-269
Fault Event	2-269
Warning Events	2-269
Info Events	2-271
LAPB Events	2-276
Fault Event	2-276
Warning Events	2-276
Info Events	2-278
LB Events	2-279
Fault Event	2-279
Warning Events	2-280
Info Events	2-280
Trace Event	2-281
LLC Events	2-282
Fault Event	2-282
Info Events	2-282
LNM Events	2-283
Fault Event	2-283
Warning Events	2-283
Info Events	2-285
LOADER Events	2-288
Fault Event	2-288
Warning Events	2-288
MCT1 Events	2-292

MIB Events	2-293
Fault Event	2-293
Warning Event	2-293
Info Events	2-293
MODEMIF Events	2-294
Fault Events	2-294
Warning Events	2-295
Info Events	2-299
Trace Events	2-300
MODULE Events	2-305
Fault Event	2-305
Warning Events	2-306
Info Events	2-308
NBASE Events	2-308
Fault Event	2-308
Info Events	2-309
NBIP Events	2-309
Fault Event	2-309
Warning Events	2-310
Info Events	2-310
NML Events	2-311
Fault Event	2-311
NOV_SYNC Events	2-312
Fault Event	2-312
Info Event	2-312

NVFS Events	2-313
Fault Event	2-313
Warning Events	2-313
Info Events	2-316
OSI Events	2-318
Fault Event	2-318
Info Events	2-318
Trace Events	2-320
OSPF Events	2-321
Fault Event	2-322
Warning Events	2-322
Info Events	2-331
Trace Events	2-333
PCAP Events	2-339
Fault Event	2-340
Warning Events	2-340
Info Events	2-352
PING Events	2-353
Fault Event	2-353
Info Events	2-353
PPP Events	2-354
Fault Event	2-354
Warning Events	2-354
Info Events	2-362
Trace Events	2-365

PTY Events	2-373
Info Event	2-373
Reverse ARP Protocol Events	2-373
Fault Events	2-373
Information Events	2-374
SDLC Events	2-374
Fault Event	2-375
Warning Events	2-375
Info Events	2-375
SMDS Events	2-376
Fault Event	2-376
Warning Events	2-377
Info Events	2-380
Trace Events	2-382
SNMP Events	2-383
Fault Event	2-383
Warning Events	2-384
Info Events	2-385
Trace Event	2-385
SPAN Events	2-386
Fault Event	2-386
Warning Events	2-386
Info Events	2-387
Trace Event	2-388

SR Events	2-389
Fault Event	2-389
Warning Events	2-389
Info Events	2-390
Trace Event	2-394
STA Events	2-395
Fault Event	2-395
Warning Events	2-395
Info Events	2-396
SWSERV Events	2-397
Fault Events	2-397
Warning Events	2-397
Info Events	2-402
Trace Events	2-403
SYNC Events	2-408
Fault Event	2-408
Warning Events	2-409
Info Events	2-419
SYS Events	2-422
Fault Event	2-422
Warning Event	2-423
Info Event	2-423

T1 Events	2-423
Fault Event	2-423
Warning Events	2-424
Info Events	2-425
TBL Events	2-428
Fault Event	2-428
TCP Events	2-428
Fault Event	2-429
Info Events	2-429
TELNET Events	2-434
Fault Event	2-434
Warning Event	2-435
Info Events	2-435
Trace Events	2-437
TF Events	2-438
Info Events	2-438
TFTP Events	2-439
Fault Event	2-439
Warning Event	2-439
Info Event	2-439
Trace Events	2-440
TI Events	2-442
Fault Event	2-442
Warning Events	2-442
Info Events	2-443

TI_RUI Events	2-444
Fault Event	2-444
Warning Events	2-444
Info Event	2-445
Trace Event	2-445
TNC Events	2-446
Fault Events	2-446
Warning Events	2-447
Info Events	2-448
TOKEN_RING Events	2-448
Fault Event	2-449
Warning Events	2-449
Info Events	2-452
TTY Events	2-455
Fault Event	2-455
Warning Events	2-455
Info Events	2-456
VINES Events	2-457
Fault Event	2-457
Warning Event	2-458
Info Events	2-458
Trace Events	2-460

X25 Events	2-462
Fault Event	2-462
Warning Events	2-462
Info Events	2-465
XMODEM Events	2-468
Fault Event	2-468
Info Event	2-468
XNS Events	2-469
Fault Event	2-469
Info Events	2-469
Trace Events	2-471

Tables

Table 1-1. Event Message Format	1-2
Table 1-2. Severity Levels	1-3
Table 1-3. Entities	1-3



About This Guide

If you are responsible for managing Wellfleet routers, you need to use this guide for reference. This guide describes how to use event messages to determine the status of your router.

Refer to this guide for

- An overview of events
- A list of all event messages

Before You Begin

For information on using the Events Manager to view Wellfleet event messages, see *Managing Wellfleet Routers*.

If you use Technician Interface, see *Using Wellfleet Technician Interface Software* for information on viewing Wellfleet event messages.

How to Get Help

For additional information or advice, contact the Bay Networks Help Desk in your area:

United States	1-800-2LAN-WAN
Valbonne, France	(33) 92-966-968
Sydney, Australia	(61) 2-903-5800
Tokyo, Japan	(81) 3-328-0052

Conventions

angle brackets (< >)	Indicate variable information that appears in the event message.
boldface text	Denotes text that you need to enter.
command	Indicates the name of a command; for example, boot .
<i>italic text</i>	Indicates new terms, file and directory names, and book titles.
quotation marks (“ ”)	Indicate the title of a chapter or section within a book, or a special term.

Acronyms and Terms

AARP	AppleTalk Address Resolution Protocol
ACE	Advanced Communications Engine
ACK	acknowledgment
AIS	Alarm Indication Signal
AMI	Address Mark Inversion
ANSI	American National Standards Institute
ARP	Address Resolution Protocol

AS	Autonomous System
ASCII	American Standard Code for Information Interchange
ASN	Access Stack Node
ATM	Asynchronous Transfer Mode
AURP	AppleTalk Update-based Routing Protocol
B8ZS	Binary Eight Zeros Suppression
BCN	Backbone Concentrator Node
BDR	Backup Designated Router
BGP	Border Gateway Protocol
BofL	Breath of Life
BOD	Bandwidth on Demand
BOOTP	Bootstrap Protocol
BPDU	Bridge Protocol Data Unit
CA	Communications Equipment Available
CCITT	Consultative Committee on International Telegraph and Telephone
CIC	Connect Incoming Call
CIS	Card Information Structure
CN	Concentrator Node
COM	communications port
CPE	customer premises equipment
CPU	Central Processing Unit
CRN	Call Request with Number
CRS	Configuration Report Server
CSMA/CD	Carrier Sense Multiple Access/Carrier Detect
CSU/DSU	Channel Service Unit/Data Service Unit
CTS	Clear To Send
DCE	Data Communications Equipment
DDN/PDN	Defense Data Network/Public Data Network
DIC	Disconnect Incoming Call
DLCI	Data Link Connection Identifier

DLCMI	Data Link Control Management Interface
DLS	See DLSw
DLSw	Data Link Switching
DMAP	Direct Memory Access Processor
DOS	Disk Operating System
DP	Data Path
DR	Designated Router
DS1E1	Multichannel T1/E1
DSR	Data Set Ready
DTE	Data Terminal Equipment
DTR	Data Terminal Ready
DUART	Dual Universal Asynchronous Receiver/Transmitter
DXI	Data Exchange Interface
EGP	Exterior Gateway Protocol
FDDI	Fiber Distributed Data Interface
FDL	Facility Data Link
FIFO	First-In-First-Out
FLOP	Floppy Disk Controller
FN	Feeder Node
FR	Frame Relay
FRE	Fast Routing Engine
FS	file system
GAME	Gate Access Management Entity
GFS	generic file system
HIMIB	Hardware Implemented MIB
HSN	History Serial Number
HSSI	High Speed Serial Interface
HUB	Access Node Repeater
HWF	Hardware Filter
IE	information element

IHU	I hear you
I/O	input/output
IMR	Integrated Multiport Repeater
IP	Internet Protocol
IPSO	See RIPSO
IPX	Internet Packet Exchange
ISDN	Integrated Services Digital Network
IS-IS	Intermediate System to Intermediate System
ISO	International Organization for Standardization
LAN	local area network
LAPB	Link Access Procedure Balanced
LB	Learning Bridge
LCP	Link Control Protocol
LCT	Link Confidence Test
LED	Light-Emitting Diode
LEM	Link Error Monitor
LER	link error rate
LL	low level
LLC	Logical Link Control
LMI	Local Management Interface
LN	Link Node
LNМ	LAN Network Manager
LOADER	Dynamic Loader
LOF	Loss of Frame
LOS	Loss of Signal
LQR	Link Quality Report
MAC	Media Access Control
MAU	Media Attachment Unit
MCT1	Multichannel T1
MIB	Management Information Base

Acronyms and Terms

MIR	Maximum Information Rate
MODEMIF	Modem Interface
MTU	Maximum Transfer Unit
NANP	North American Numbering Plan
NAK	negative acknowledgment
NBMA	Non-Broadcast Multi-Access
NCP	Network Control Program
NetBIOS	Network Basic Input-Output System
NMI	non-maskable interrupt
NML	Native Mode LAN
NIC	Network Information Center
NOVRAM	Non-Volatile Random Access Memory
NOV_SYNC	Non-Volatile Synchronization
NVFS	Non-Volatile File System
OOF	Out-Of-Frame
OSI	Open Systems Interconnection
OSPF	Open Shortest Path First
OUI	organizationally unique identifier
PAM	Physical Access Method
PAP	Password Authentication Protocol
PC	physical connection
PCAP	Packet Capture
PCM	Physical Connection Management
PCMCIA	Personal Computer Memory Card International Association
PDU	protocol data unit
PHY	Physical Level
PLCP	Physical Layer Convergence Protocol
PPP	Point-to-Point Protocol
PPX	Parallel Packet Express
PROM	Programmable Read-Only Memory

PTY	pseudo teletypewriter
PVC	permanent virtual circuit
QENET	Quad Ethernet
RARP	Reverse Address Resolution Protocol
RAI	Remote Alarm Indication
RAM	Random Access Memory
REM	Ring Error Monitor
RI	routing information
RIF	routing information field
RIP	Routing Information Protocol
RIPSO	Revised IP Security Option
RPC	remote procedure call
RPS	Ring Parameter Server
RTC	Real Time Clock
RTMP	Routing Table Maintenance Protocol
RUI	Remote User Interface
SAP	Service Access Point
SIP	SMDS Interface Protocol
SMDS	Switched Multimegabit Data Services
SMT	Station Management
SNAP	Subnetwork Access Protocol
SNI	Subscriber Network Interface
SNMP	Simple Network Management Protocol
SPAN	Spanning Tree
SQE	Signal Quality Error
SR	Source Routing
SRAM	Static Random Access Memory
SRM	Systems Resource Module
SRT	Source Routing Transparent
SSI	SMDS-to-Access Server Interface

Acronyms and Terms

STA	Statistical Thresholds and Alarms
SWSERV	Switched Access Services
SYNC	Synchronous
SYS	system
TBL	table
TCP	Transmission Control Protocol
TELNET	Telnet Server
TF	traffic filter
TFTP	Trivial File Transfer Protocol
TI_RUI	Technician Interface/Remote User Interface
TNC	Telnet Client
TTRT	Target Token Rotation Time
TTY	teletypewriter
UNI	User Network Interface
VC	virtual circuit
VINES	Virtual Networking System
WAN	wide area network
VBR	Variable Bit Rate
VCI	virtual circuit interface
VPI	virtual path interface
XMODEM	Xmodem/Ymodem
XNS	Xerox Networking Systems
ZIP	Zone Information Protocol
XCVR	(Ethernet) Transceiver

Chapter 1 Overview

This chapter presents a general overview of Wellfleet event messages and provides information on the following topics:

- ❑ Event message format
- ❑ Severity levels
- ❑ Entities

What Is an Event?

An *event* is something that happens to a router's operating status at a particular time; an *event message* reports the event on your console.

An event message briefly describes the event and includes the event code associated with that event. The event code is useful if you are using third-party network management software to view Wellfleet events. It is also useful when looking up events in this book.

This guide explains the meaning of the event messages that appear on your console and recommends responses to these events.

How Do I View Event Messages?

You view the log that contains the event messages using Site Manager, Technician Interface, or any compatible third-party network management software.

For information on viewing events using Site Manager or a compatible third-party network management application, see *Managing Wellfleet Routers*. For information on viewing events using Technician Interface, see *Using Technician Interface Software*.

Event Message Format

Chapter 2 organizes event messages by entity, severity, and event code. The format of a typical event description consists of five parts, as shown Table 1-1.

Table 1-1. Event Message Format

Entity Code/Event Code:	The code assigned to the entity issuing the event and the code assigned to the event. Together, this pair uniquely identifies a Wellfleet router event.
Severity:	Fault, Warning, Information, or Trace.
Message:	Text displayed in event log.
Meaning:	Clarification of event message.
Action:	Recommended user response to event (if necessary). If no action is applicable, this field is not present.

Severity Levels

Event messages and trap messages are always associated with one of five severity levels (Table 1-2). Note that this manual does not include Debug messages; they are for internal use only.

Table 1-2. Severity Levels

Severity	Indicates	Code
Fault	A major service disruption. A configuration, network, or hardware problem usually causes such a disruption. The entities involved keep restarting until either the router or you resolve the problem. Chapter 2 describes the action to take.	8
Warning	A service acted unexpectedly. Chapter 2 describes the action to take.	4
Information	Routine events. Usually no action is required.	2
Trace	Information about each packet that traversed the network. We recommend viewing this type of trap message only when diagnosing network problems.	10
Debug	Information that Bay Networks Customer Support uses. These messages are not documented.	1

Entities

Event messages are always associated with a particular entity that generates a message. Entities include Wellfleet software providing a service, such as TFTP, IP, or the GAME operating system. Table 1-3 lists the entities (both their abbreviations and full names) and associated entity codes.

Table 1-3. Entities

Entity	Description	Code
ACE	Advanced Communications Engine Board	10
APPN	Advanced Peer-to-Peer Networking	86
ARP	Address Resolution Protocol	19
ASYNC	Asynchronous	87

Table 1-3. Entities (continued)

Entity	Description	Code
AT	AppleTalk [®] Protocol	36
ATM	Asynchronous Transfer Mode (generic)	78
ATM_DXI	Asynchronous Transfer Mode/Data Exchange Interface Protocol	49
ATMINTF	Asynchronous Transfer Mode Interface (Link Module)	76
BGP	Border Gateway Protocol	52
BGP3	Border Gateway Protocol Version 3	53
BGP4	Border Gateway Protocol Version 4	72
BOD	Bandwidth on Demand: Dial Backup and Dial-on-Demand Services	54
BOOT	Router Boot Operation	22
BOOTP	Bootstrap Protocol	59
CSMACD	Carrier Sense Multiple Access/ Carrier Detect (Ethernet) Driver	9
DECNET	DECnet [™] IV Protocol	4
DLS	Data Link Switching (DLSw) Protocol	50
DMAP	Direct Memory Access Processor	39
DOS	Disk Operating System	28
DP	Data Path Service	6
DS1E1	Multichannel T1/E1	63
DVMRP	Distance-Vector Multicast Protocol	82
E1	E1 Driver	35
EGP	Exterior Gateway Protocol	46
FDDI	Fiber Distributed Data Interface Driver	8
FLOP	Floppy Disk Controller	32
FR	Frame Relay Protocol	25

Table 1-3. Entities *(continued)*

Entity	Description	Code
FS	File System	64
FTP	File Transfer Protocol	88
GAME	Gate Access Management Entity	5
GFS	Generic File System	33
HSSI	High Speed Serial Interface Driver	27
HUB	Access Node Repeater	71
HWF	Hardware Filter	37
IGMP	Internet Group Management Protocol	83
IP	Internet Protocol	2
IPX [®]	Internet Packet Exchange Protocol	30
ISDN	Integrated Services Digital Network	79
ISDN_BRI	Integrated Services Digital Network/Basic Rate Interface	80
LAPB	Link Access Procedure Balanced	73
LB	Learning Bridge Protocol	1
LLC	Logical Link Control Protocol	48
LNМ	LAN Network Manager Servers Protocol	51
LOADER	Dynamic Loader	55
MCE1	Multichannel E1	
MCT1	Multichannel T1	67
MIB	Management Information Base	13
MODEMIF	Modem Interface	57
MODULE	Module Driver	21
NBASE	NBASE	75

Table 1-3. Entities *(continued)*

Entity	Description	Code
NBIP	NetBios over IP	77
NML	Native Mode LAN	81
NOV_SYNC	Non-Volatile Memory Synchronization	61
NVFS	Non-Volatile File System	11
OSI	Open Systems Interconnection Protocol	38
OSPF	Open Shortest Path First	12
PCAP	Packet Capture	62
PING	IP Packet Internet Groper	85
PPP	Point-to-Point Protocol	44
PTY	Pseudo TTY driver	41
RARP	Reverse Address Resolution Protocol	45
SDLC	SNA Data Link Control	74
SMDS	Switched Multimegabit Data Service	24
SNMP	Simple Network Management Protocol	3
SPAN	Spanning Tree Protocol	16
SR	Source Routing Bridge Protocol	29
STA	Statistical Thresholds and Alarms	56
SWSERV	Switched Access Services	58
SYNC	Synchronous Driver	20
SYS	System Record	60
T1	T1 Driver	34
TBL	Routing Table	14
TCP	Transmission Control Protocol	47

Table 1-3. Entities *(continued)*

Entity	Description	Code
TELNET	Telnet Server Protocol	40
TFTP	Trivial File Transfer Protocol	7
TF	Traffic Filter	15
TI	Wellfleet Technician Interface	0
TI_RUI	Technician Interface/Remote User Interface (Site Manager)	18
TNC	Telnet Client Protocol	70
TOKEN	Token Ring Driver	26
TTY	Teletypewriter	17
VINES [®]	Virtual Networking System Protocol	23
WCP	Wellfleet Compression Protocol	84
X25	X.25 Protocol	43
XMODEM	Xmodem/Ymodem Protocol	42
XNS [™]	Xerox Networking Systems Protocol	31

Chapter 2

Wellfleet Event Messages

The sections that follow list Wellfleet event messages by entity, severity, and event code. Each event message provides a meaning, along with a recommended response if one is required.

ACE Events

The Advanced Communications Engine service, referred to as the ACE entity, issues the following event messages. The entity code assigned to ACE events is 10.

Fault Events

Entity Code/Event Code: 10/2

Severity: Fault

Message: ACE hardware diagnostic: Undefined cascaded interrupt level 6

Meaning: A cascaded Level 6 interrupt occurred for an unknown reason.

Action: Contact Bay Networks Help Desk if this condition persists.

Entity Code/Event Code: 10/3

Severity: Fault

Message: ACE hardware diagnostic: NMI: AC power failure

Meaning: A lower power condition is detected.

Action: Contact Bay Networks Help Desk if this condition persists.

Entity Code/Event Code: 10/4

Severity: Fault

Message: ACE hardware diagnostic: NMI: local parity error

Meaning: A parity error is detected in the local memory bank.

Action: Replace the ACE processor if this condition persists.

Entity Code/Event Code: 10/5

Severity: Fault

Message: ACE hardware diagnostic: NMI: global parity error

Meaning: A parity error is detected in the global memory bank.

Action: Replace the ACE processor if this condition persists.

Entity Code/Event Code: 10/6

Severity: Fault

Message: ACE hardware diagnostic: NMI: unknown interrupt

Meaning: A Level 7 (NMI) interrupt occurred for an unknown reason.

Action: Contact Bay Networks Help Desk if this condition persists.

Warning Events

Entity Code/Event Code: 10/1

Severity: Warning

Message: ACE hardware diagnostic: <message>

Meaning: A cascaded Level 6 interrupt occurred. The message text indicates the source of the interrupt.

Action: Contact Bay Networks Help Desk if there are multiple occurrences of this event.

Entity Code/Event Code: **10/2**

Severity: Warning

Message: ACE backplane type did not initialize in NOVRAM.

Meaning: The backplane type detected is invalid.

Action: Enter the **backplane FN**, **backplane LN**, or **backplane CN** command at the Technician Interface prompt to initialize the backplane in NOVRAM. Then reboot the router.

APPLETALK Events

The AppleTalk service, referred to as the APPLETALK entity, issues the following event messages. The entity code assigned to APPLETALK events is 36.

Fault Event

Entity Code/Event Code: **36/1**

Severity: Fault

Message: AppleTalk Error: <*fatal_error_message*>

Meaning: The router experienced a fatal error <*fatal_error_message*> and is restarting automatically. The router will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if the router fails to restart.

Warning Events

Entity Code/Event Code: **36/14**

Severity: Warning

Message: Illegal node id in aarp response <*response_no.*>

Meaning: The router received an illegal response (one that specified 0 or FF as the node ID) in reply to an AARP request.

Action: None required. The packet could be corrupted.

Entity Code/Event Code: 36/15

Severity: Warning
Message: Illegal net range <network_start_no.> — <network_end_no.> for circuit <circuit_no.>
Meaning: The circuit <circuit_no.> was configured with a network range that is invalid.
Action: Assign a valid network range using the router's Network Start and Network End parameters, then re-enable the interface.

Entity Code/Event Code: 36/16

Severity: Warning
Message: No default zone configured on circuit <circuit_no.>
Meaning: The circuit <circuit_no.> was not assigned to a default zone.
Action: Assign the circuit to the default zone specified for this network, then re-enable the interface.

Entity Code/Event Code: 36/17

Severity: Warning
Message: Illegal network number <network_ID> for circuit <circuit_no.>
Meaning: The circuit <circuit_no.> was assigned an illegal network number <network_ID>.
Action: Assign a valid network number to the circuit, then re-enable the interface.

Entity Code/Event Code: 36/18

Severity: Warning
Message: Illegal node number <node_ID> for circuit <circuit_no.>
Meaning: The circuit <circuit_no.> has been assigned an illegal node number <node_ID>.
Action: Assign a valid node number to circuit <circuit_no.>, then re-enable the interface.

Entity Code/Event Code: 36/19

Severity: Warning

Message: Net or node were zero — dynamically obtaining address for circuit <ircuit_no.>

Meaning: The circuit <ircuit_no.> has been statically assigned an illegal address with either the network ID portion or node ID portion of the address equal to 0, which is an invalid value for either of these fields.

Action: None required. The router will dynamically obtain a valid address for circuit <ircuit_no.>.

Entity Code/Event Code: 36/20

Severity: Warning

Message: Received invalid BrRq from <network_ID>.<node_ID> on circuit <ircuit_no.>

Meaning: The circuit <ircuit_no.> received an invalid broadcast request packet from the node whose AppleTalk address is <network_ID>.<node_ID>.

Action: None required. The packet could be corrupted.

Entity Code/Event Code: 36/21

Severity: Warning

Message: Received invalid FwdReq from <network_ID>.<node_ID> on circuit <ircuit_no.>

Meaning: The circuit <ircuit_no.> received an invalid forward request packet from the node whose AppleTalk address is <network_ID>.<node_ID>.

Action: None required. The packet could be corrupted.

Entity Code/Event Code: 36/22

Severity: Warning

Message: Static configuration conflict — address in use

Meaning: This circuit has been statically assigned an address that is already in use on the AppleTalk network.

Action: Assign a new address to this circuit (checking first to make certain that it is unique on the AppleTalk network), or allow the router to dynamically assign an address to the circuit.

Entity Code/Event Code: 36/23

Severity: Warning

Message: No free node numbers

Meaning: All node numbers are in use on this network. This can occur if two (usually synchronous) interfaces initialize at the same time and randomly pick the same node ID.

Action: Reduce the number of AppleTalk nodes on the network, or increase the size of the network range. (For example, if the network range is 2 to 3, increase it to 2 to 4.) If this event occurred on a synchronous circuit, statically configure the AppleTalk address on each interface.

Entity Code/Event Code: 36/24

Severity: Warning

Message: Getnetinfo reply: zone should have been null

Meaning: Another router sent an incorrect response to this router's GetNetInfo request.

Action: Check to see if the other router is misconfigured.

Entity Code/Event Code: 36/25

Severity: Warning

Message: Couldn't add default zone

Meaning: The router could not add the default zone specified for this network to its zone list. This could be caused by lack of memory on the slot.

Entity Code/Event Code: 36/26

Severity: Warning

Message: GNI Timeout — No NetInfoReply received

Meaning: An AppleTalk interface that is configured as a nonseed router sent out GetNetInfo packets but did not receive a valid GetNetInfo reply in the time allowed (6 seconds).

Action: Every network must contain at least one seed router; make certain that a seed router is configured on this network.

Entity Code/Event Code: 36/27

Severity: Warning

Message: Could not get complete zone list

Meaning: The router could not get the entire zone list from the seed router to which it sent out a GetNetInfo request. This can only happen if the router fails, or if the router is configured on a highly unstable network.

Action: Re-enable the AppleTalk interface.

Entity Code/Event Code: 36/28

Severity: Warning

Message: Local net range conflict

Meaning: The network range assigned to this router is different from the network range assigned to other routers on the network.

Action: Check the configuration of this router and reconfigure if necessary.

Entity Code/Event Code: 36/29

Severity: Warning

Message: RTMP Timeout — No RTMP DATA recvd

Meaning: An AppleTalk interface configured as nonseed router did not receive a response to its RTMP request in the time allowed (6 seconds).

Action: Check the status of other routers on the network, then re-enable the AppleTalk interface.

Entity Code/Event Code: 36/30

Severity: Warning

Message: Failed adding local net — no buffers

Meaning: This slot is running low on buffers, probably due to excessive traffic.

Action: Disable, then enable the affected circuit.

Entity Code/Event Code: 36/31

Severity: Warning

Message: Bad net range <network_start_no.> — <network_end_no.> from
<network_ID>.<node_ID>

Meaning: The router received an RTMP packet from the router <network_ID>.<node_ID> that contained an illegal network range.

Action: Check the configuration of the originating router.

Entity Code/Event Code: 36/32

Severity: Warning

Message: Bad non extended net <network_ID> from <network_ID>.<node_ID>

Meaning: The router received an RTMP packet from the router <network_ID>.<node_ID> that contained an illegal network number.

Action: Check the configuration of the originating router.

Entity Code/Event Code: 36/33

Severity: Warning

Message: Bad distance <distance> for net <network_ID> from <network_ID>.<node_ID>

Meaning: The router received an RTMP packet from the router <network_ID>.<node_ID> specifying an illegal hop count of between 16 and 30. A valid hop count is between 0 and 15.

Action: Check the configuration of the originating router.

Entity Code/Event Code: 36/34

Severity: Warning

Message: Range overlap <network_start_no.> — <network_end_no.> from
<network_ID>.<node_ID>

Meaning: The router received an RTMP packet from the router <network_ID>.<node_ID> containing a network range <network_start_no.> — <network_end_no.> that overlapped with an existing network range.

Action: Check the configuration of the originating router.

Entity Code/Event Code: 36/35

Severity: Warning

Message: Range type conflict for net <network_ID> from <network_ID>.<node_ID>

Meaning: The router received an RTMP packet from the router <network_ID>.<node_ID> containing an unexpected range type (either nonextended or extended).

Action: Check the configuration of all routers on the network.

Entity Code/Event Code: 36/36

Severity: Warning

Message: Invalid zone len <zone_name_length> — zone <first_four_characters_of_zone_name>

Meaning: The router received an illegal zone name from another router. The zone name length <zone_name_length> is in hexadecimal, as are the first four characters of the zone name <first_four_characters_of_zone name>.

Action: Check configuration of all routers on the network.

Entity Code/Event Code: 36/37

Severity: Warning

Message: A zip reply had a net number <network_ID> not found in rtmp table on circuit <circuit_no.>

Meaning: The router received a ZIP reply containing a network number <network_ID> that is not present in the router's RTMP table for this interface. This could occur if the network is unstable.

Action: None required.

Entity Code/Event Code: 36/38

Severity: Warning

Message: GetNetInfo reply: bad multicast length

Meaning: A GetNetInfo reply received by the router contained an invalid mulicast length (the valid length for Token Ring and Ethernet is 6; the valid length for SMDS is 8).

Action: Check the configuration of the originating router.

Entity Code/Event Code: 36/39

Severity: Warning

Message: Default zone — seed conflict

Meaning: When the AppleTalk interface was initialized, a seed router was configured with a default zone that was different than the default zone configured for other routers.

Action: Check the configuration of the seed routers on the network.

Entity Code/Event Code: 36/40

Severity: Warning

Message: Number of zones on extended net conflict

Meaning: When the AppleTalk interface was initialized, a seed router was configured with a total zone count for this network that was different from the total zone count configured on other routers.

Action: Check the configuration of the seed routers on the network.

Entity Code/Event Code: 36/41

Severity: Warning

Message: Zone name conflict

Meaning: When the AppleTalk interface was initialized, a seed router found a zone name in a ZIP reply that was not on its local zone list.

Action: Check the configuration of the seed routers on the network.

Entity Code/Event Code: 36/42

Severity: Warning

Message: Bad zip reply

Meaning: The AppleTalk interface received a malformed ZIP reply packet.

Action: None required.

Entity Code/Event Code: 36/44

Severity: Warning

Message: No WAN Broadcast Address configured

Meaning: No WAN broadcast address has been configured for the AppleTalk interface.

Action: Specify a WAN broadcast address for the interface.

Entity Code/Event Code: 36/45

Severity: Warning

Message: No SMDS individual address configured

Meaning: No SMDS individual address has been configured for the AppleTalk interface.

Action: Specify an SMDS individual address for the interface.

Entity Code/Event Code: 36/46

Severity: Warning

Message: Configured WAN broadcast address length doesn't match protocol

Meaning: The WAN broadcast address length is incorrect.

Action: Reconfigure the WAN Broadcast Address parameter.

Entity Code/Event Code: 36/47

Severity: Warning

Message: PPP requires a network range of one network

Meaning: If you enable AppleTalk routing services on a PPP circuit, you must specify the network range so that the network start equals the network end. (For example, 5-5 and 7-7 are valid network ranges; however, 8-10 is not.)

Action: Reconfigure the Network Start or Network End parameter.

Entity Code/Event Code: 36/48

Severity: Warning

Message: Only one zone allowed on a PPP circuit

Meaning: Multiple AppleTalk zones are configured on this PPP circuit. If you enable AppleTalk routing services on a PPP circuit, then you can only specify a single zone for the network.

Action: Delete all other zones for this interface.

Entity Code/Event Code: 36/49

Severity: Warning

Message: Negotiated routing protocol not supported

Meaning: PPP did not negotiate RTMP as the routing protocol.

Action: Reconfigure the remote end of this PPP circuit so that it runs RTMP.

Entity Code/Event Code: 36/50

Severity: Warning

Message: Length of MAC address is incorrect for media

Meaning: The MAC address specified is too long for this type of WAN interface.

Action: Reconfigure the WAN MAC Address parameter.

Entity Code/Event Code: 36/51

Severity: Warning

Message: Unsupported media <*circuit_type_PAM_ID*><*WAN_protocol_L2_ID*>

Meaning: AppleTalk is enabled on an unsupported type of circuit or is running over an unsupported WAN protocol.

Action: Reconfigure the interface.

Entity Code/Event Code: 36/52

Severity: Warning

Message: MTU too small <*MTU_size*>

Meaning: The MTU value is set too low for this circuit.

Action: Increase the MTU size for this circuit.

Entity Code/Event Code: 36/61

Severity: Warning

Message: Bad net range <network_start_no.> — <network_end_no.> from <IP_address>

Meaning: The router received an AURP RI-Response or RI-Update packet from the router peer <IP_address> that contained an illegal network range.

Action: Check the configuration of the originating router.

Entity Code/Event Code: 36/62

Severity: Warning

Message: Bad non extended net <network_ID> from <IP_address>

Meaning: The router received an AURP RI-Response or RI-Update packet from the router peer <IP_address> that contained an illegal network number.

Action: Check the configuration of the originating router.

Entity Code/Event Code: 36/63

Severity: Warning

Message: AURP: range overlap <network_start_no.> — <network_end_no.> from <IP_address> ignored

Meaning: The router received an AURP RI-Response or RI-Update packet from the router peer <IP_address> containing a network range <network_start_no.> — <network_end_no.> that overlapped with an existing network range. The overlapping network range was ignored.

Action: Eliminate the overlap of the network ranges, then restart the AURP connection (disable, then enable the connection), so that the ignored network range is retransmitted.

Entity Code/Event Code: 36/64

Severity: Warning

Message: A ZI-Rsp had a net number <network_ID> not found in rtmp table on connection <connection_no.>

Meaning: The router received a ZI-Response from router peer <IP_address> containing a network number <network_ID> that is not present in the router's routing table.

Entity Code/Event Code: 36/65

Severity: Warning

Message: Update *<update_type>* for network *<network_start_no.>* — *<network_end_no.>* not sent on connection *<IP_address>*: overlaps existing update *<update_type>* for network *<network_start_no.>* — *<network_end_no.>*.

Meaning: An event occurred in the router's local internet that would have caused it to send update tuples that overlapped. The overlapping update is not sent.

Action: Restart the AURP connection (disable, then enable the connection) to send the ignored update's network information.

Info Events

Entity Code/Event Code: 36/2

Severity: Info

Message: Interface *<network_ID>*.*<node_ID>* up on circuit *<circuit_no.>*

Meaning: The circuit identified by *<circuit_no.>* has become enabled, thus providing AppleTalk routing service to the interface. The interface's AppleTalk address is *<network_ID>*.*<node_ID>*.

Entity Code/Event Code: 36/3

Severity: Info

Message: Interface *<network_ID>*.*<node_ID>* down on circuit *<circuit_no.>*

Meaning: The circuit identified by *<circuit_no.>* has become disabled, thus disabling AppleTalk routing service to the interface. The interface's AppleTalk address is *<network_ID>*.*<node_ID>*.

Entity Code/Event Code: 36/4

Severity: Info

Message: Protocol initializing

Meaning: The router is initializing AppleTalk routing.

Entity Code/Event Code: 36/5

Severity: Info

Message: Protocol terminating

Meaning: The router is terminating AppleTalk routing.

Entity Code/Event Code: 36/53

Severity: Info

Message: AURP initializing

Meaning: The router is initializing AppleTalk AURP support.

Entity Code/Event Code: 36/54

Severity: Info

Message: AURP terminating

Meaning: The router is terminating AppleTalk AURP support.

Entity Code/Event Code: 36/55

Severity: Info

Message: AURP Connection opened <IP_address>

Meaning: The router has successfully opened the connection to the specified peer.

Entity Code/Event Code: 36/56

Severity: Info

Message: AURP Connection closed <IP_address>

Meaning: The router has closed the connection to the specified peer.

Entity Code/Event Code: 36/57

Severity: Info

Message: AURP Connection closed (timed out) <IP_address>

Meaning: The router has closed the connection to the specified peer, because the configured timeout and number of retries have been exceeded.

Entity Code/Event Code: 36/58

Severity: Info

Message: AURP Connection closed by peer <IP_address>

Meaning: The peer external router <IP_address> has closed the AURP connection between itself and the local router.

Entity Code/Event Code: 36/59

Severity: Info

Message: AURP Connection request from <IP_address> rejected

Meaning: The local router received an AURP connection request from peer external router <IP_address>; however, it rejected the request, because no connection is configured between the routers.

Entity Code/Event Code: 36/60

Severity: Info

Message: AURP Connection request reject by <IP_address> (code <error_code_no.>)

Meaning: The peer has rejected an Open request from the local router. The code is the error code in the Open Response packet. Refer to the following table for more information on AURP error codes.

Error Code	Error
-1	Normal connection close
-2	Routing loop detected
-3	Connection out of sync
-4	Option-negotiation error
-5	Invalid version number
-6	Insufficient resources for connection
-7	Authentication error

Trace Events

Entity Code/Event Code: 36/6

Severity: Trace

Message: AARP: node <network_ID>.<node_ID> added

Meaning: The router added the node whose address is <network_ID>.<node_ID> to its AARP table.

Entity Code/Event Code: 36/7

Severity: Trace

Message: AARP: node <network_ID>.<node_ID> deleted

Meaning: The router deleted the node whose address is <network_ID>.<node_ID> from its AARP table.

Entity Code/Event Code: 36/8

Severity: Trace

Message: RTMP: net <network_start_no.> — <network_end_no.> came up

Meaning: The router added the network <network_start_no.> — <network_end_no.> to its RTMP table.

Entity Code/Event Code: 36/9

Severity: Trace

Message: RTMP: net <network_start_no.> — <network_end_no.> went down

Meaning: The router deleted the network <network_start_no.> — <network_end_no.> from its RTMP table.

Entity Code/Event Code: 36/10

Severity: Trace

Message: FWD: entry <network_ID>.<node_ID> to <network_ID>.<node_ID> came up

Meaning: The router added the nodes <network_ID>.<node_ID> to <network_ID>.<node_ID> to its forwarding table.

Entity Code/Event Code: 36/11

Severity: Trace

Message: FWD: entry <network_ID>.<node_ID> to <network_ID>.<node_ID> went down

Meaning: The router deleted the nodes <network_ID>.<node_ID> to <network_ID>.<node_ID> from its forwarding table.

Entity Code/Event Code: 36/12

Severity: Trace

Message: ZIP: entry <zone_name> on net <network_ID> came up

Meaning: The router added zone <zone_name> on network <network_ID> to its zone table.

Entity Code/Event Code: 36/13

Severity: Trace

Message: ZIP: entry <zone_name> on net <network_ID> went down

Meaning: The router deleted zone <zone_name> on network <network_ID> from its zone table.

APPN Events

APPN issues the following event messages. The entity code assigned to APPN events is 86.

Fault Event

Entity Code/Event Code: 86/1

Severity: Fault

Message: System error, APPN service attempting restart.

Meaning: The APPN driver experienced a fatal error and is restarting automatically. The driver will attempt to restart up to five times.

Action: Contact the Bay Networks Help Desk if this condition persists.

Warning Events

Entity Code/Event Code: 86/2

Severity: Warning

Message: LU 6.2 received negative BIND response: Mode= <mode_name>, Sense = <sense_data>, Sending CP name = <CP_name>, Sending LU name = <LU_name>, Partner LU name = <LU_name>.

Meaning: A partner LU that supports only nonextended BINDs detected an error causing it to send an -RSP (BIND). The LU receiving the -RSP (BIND) generates this message.

Action: Review the associated resources and check the communications program in both the local and remote nodes.

Entity Code/Event Code: 86/3

Severity: Warning

Message: LU 6.2 sent negative BIND response: Mode= <mode_name>, Sense = <sense_data>, Sending CP name = <CP_name>, Sending LU name = <LU_name>, Partner LU name = <LU_name>.

Meaning: An LU detected an error, causing it to send an -RSP(BIND) response to its partner LU. The SNA <sense_data> denotes the exact error condition detected.

Action: Review the associated resources and check the communications program in both the local and remote nodes.

Entity Code/Event Code: 86/4

Severity: Warning

Message: LU 6.2 session activation rejected: Mode= <mode_name>, Sense = <sense_data>, Sending CP name = <CP_name>, Sending LU name = <LU_name>, Partner LU name = <LU_name>.

Meaning: The CP has rejected the LU's request for assistance in the initiation of a session. The session manager informs the resource manager that the session activation has failed. The SNA <sense_data> denotes the exact error condition detected.

Action: Review the associated resources and check the communications program.

Entity Code/Event Code: 86/5

Severity: Warning

Message: LU 6.2 UNBIND request sent: Mode= *<mode_name>*, Sense = *<sense_data>*, UNBIND type = *<type>*, Sending CP name = *<CP_name>*, Sending LU name = *<LU_name>*, Partner LU name = *<LU_name>*.

Meaning: The LU detected an error, causing it to send an UNBIND to its partner LU. The SNA *<sense_data>* denotes the exact error condition detected. The *<mode_name>* is the name of the deactivated session. If no node name is available when the alert is sent, the mode name is encoded as eight X'40' bytes.

Action: Review the associated resources and check the communications program in both the local and remote nodes.

Entity Code/Event Code: 86/6

Severity: Warning

Message: LU 6.2 UNBIND request received: Mode= *<mode_name>*, Sense = *<sense_data>*, UNBIND type = *<type>*, Sending CP name = *<CP_name>*, Sending LU name = *<LU_name>*, Partner LU name = *<LU_name>*.

Meaning: The partner LU (which supports extended BINDs) rejected the BIND with an UNBIND. The SNA *<sense_data>* denotes the exact error condition detected.

Action: Review the associated resources and check the communications program in both the local and remote nodes.

Entity Code/Event Code: 86/7

Severity: Warning

Message: Session setup failure: Sense = *<sense_data>*, Alert code = *<product alert reference code>*, Sending CP name = *<CP_name>*, Partner CP name = *<CP_name>*.

Meaning: SNA session setup failed due to a problem with BIND processing, or a problem occurred with the communications program at the remote node. The SNA *<sense_data>* denotes the exact BIND with an UNBIND and the exact error condition being reported.

Action: Check the communications program at the remote node and contact the Bay Networks Help Desk for assistance.

Entity Code/Event Code: 86/8

Severity: Warning

Message: Invalid XID received: Sense = *<sense_data>*, Alert code = *<product alert reference code>*, Sending CP name = *<CP_name>*, Partner CP name = *<CP_name>*.Meaning: XID negotiation was terminated by this node because the received XID was invalid in format, or contained unacceptable values. The SNA *<sense_data>* denotes the exact error condition being reported.

Action: Check the communications program at the remote node.

Entity Code/Event Code: 86/9

Severity: Warning

Message: XID protocol error: Sense = *<sense_data>*, Alert code = *<product alert reference code>*, Sending CP name = *<CP_name>*, Partner CP name = *<CP_name>*.Meaning: XID negotiation was terminated by this node because the remote node violated protocols for XID exchange. The SNA *<sense_data>* denotes the exact error condition being reported.

Action: Check the communications program at the remote node.

Entity Code/Event Code: 86/10

Severity: Warning

Message: Incorrect Set Mode command received: Sense = *<sense_data>*, Alert code = *<product alert reference code>*, Sending CP name = *<CP_name>*, Partner CP name = *<CP_name>*.Meaning: An invalid Set Mode (SM) was received. The SNA *<sense_data>* denotes the exact error condition being reported.

Action: Check the communications program at the remote node.

Entity Code/Event Code: 86/11

Severity: Warning

Message: XID negotiation terminated: Sense = *<sense_data>*, Alert code = *<product alert reference code>*, Sending CP name = *<CP_name>*, Partner CP name = *<CP_name>*.

Meaning: XID negotiation was terminated by the remote node. An XID negotiation error control vector (x'22') was received. The SNA *<sense_data>* denotes the exact error condition being reported.

Action: Check the communications program at both the local and remote nodes.

Entity Code/Event Code: 86/12

Severity: Warning

Message: Unable to communicate with remote node (XID failure): Sense = *<sense_data>*, Alert code = *<product alert reference code>*, Sending CP name = *<CP_name>*, Partner CP name = *<CP_name>*.

Meaning: XID negotiation was terminated by the alert sender because no response was received and the XID retry limit was reached. The SNA *<sense_data>* denotes the exact error condition being reported.

Action: Check the communications program and configuration at the remote node. Check the network connections.

Entity Code/Event Code: 86/13

Severity: Warning

Message: Unable to communicate with remote node (DLC failure): Alert code = *<product alert reference code>*, Sending CP name = *<CP_name>*.

Meaning: The communications program was abnormally terminated due to a failed DLC (interface) or path control component.

Action: Check the communications program at the remote node. Check the network connections. If the problem persists, contact the Bay Networks Help Desk.

Entity Code/Event Code: 86/14

Severity: Warning

Message: XID negotiation terminated: Sense = *<sense_data>*, Alert code = *<product alert reference code>*, Sending CP name = *<CP_name>*.Meaning: XID negotiation was terminated because one or more resources were unavailable. The SNA *<sense_data>* denotes the exact error condition being reported.

Action: Check the communications program, or contact the Bay Networks Help Desk.

Entity Code/Event Code: 86/15

Severity: Warning

Message: CP-CP session failure: Sense = *<sense_data>*, Alert code = *<product alert reference code>*, Sending CP name = *<CP_name>*, Partner CP name = *<CP_name>*.Meaning: A format error was detected in a topology database update (TDU) general data stream (GDS) variable. The topology database manager instructs session services to UNBIND the CP-CP session over which the TDU was received. The associated SNA *<sense_data>* is sent in the UNBIND. The TDU containing the error is ignored. The SNA *<sense_data>* denotes the exact error condition being reported.

Action: Check the communications program at the remote node, or contact the Bay Networks Help Desk.

Entity Code/Event Code: 86/16

Severity: Warning

Message: Topology capacity exceeded: Alert code = *<product alert reference code>*, Maximum entries = *<number>*, Sending CP name = *<CP_name>*.

Meaning: The node table is full. This condition is probably the result of a configuration error. The TDU causing the condition is ignored.

Action: Check the configuration file for the maximum number of node and transmission group (TG) entries in the topology database.

Entity Code/Event Code: 86/17

Severity: Warning

Message: Topology protocol error: Alert code = *<product alert reference code>*, Resource name = *<resource_name>*, Sending CP name = *<CP_name>*.

Meaning: The architecture-defined maximum for the resource sequence number (RSN) has been reached. The resource (a node or transmission group) is no longer available for use. The topology database manager continues to run. The TDU causing the error is discarded.

Action: Check the name of the resource in question.

Entity Code/Event Code: 86/18

Severity: Warning

Message: Directory services protocol error: Sense = *<sense_data>*, Alert code = *<product alert reference code>*, Sending CP name = *<CP_name>*, Partner CP name = *<CP_name>*.

Meaning: Indicates a protocol violation on a LOCATE or BIND request or, that the architecture-defined maximum resource sequence number (RSN) has been reached. The resource (a node or transmission group) is no longer available for use. The TDU causing the error is discarded. The SNA *<sense_data>* denotes the exact error condition being reported.

Meaning: Check the communications program at the remote node, or contact the Bay Networks Help Desk.

Entity Code/Event Code: 86/19

Severity: Warning

Message: CP-CP session failure: Sense = *<sense_data>*, Alert code = *<product alert reference code>*, Sending CP name = *<CP_name>*, Partner CP name = *<CP_name>*.

Meaning: Insufficient resources are available for directory services. Deadlock has been detected between directory services (DS) components in two nodes. When this condition exists, directory services instructs session services to UNBIND the CP-CP session to the other node. If this problem reoccurs, it may indicate a node configuration error. The SNA *<sense_data>* denotes the exact error condition being reported.

Action: Check the communications program at the remote node, or contact the Bay Networks Help Desk.

Entity Code/Event Code: 86/20

Severity: Warning

Message: Unauthorized network change attempted: Sense = *<sense_data>*, Alert code = *<product alert reference code>*, Sending CP name = *<CP_name>*, Partner CP name = *<CP_name>*.Meaning: An end node CP, without authorization, has attempted to delete a resource (Directory Services). Probable cause is that an unauthorized user attempted to change the configuration. The SNA *<sense_data>* denotes the exact error condition being reported.

Action: Check the communications program at the remote node; check for unauthorized users.

Entity Code/Event Code: 86/21

Severity: Warning

Message: Out of resources: Sense = *<sense_data>*, Alert code = *<product alert reference code>*, Sending CP name = *<CP_name>*.Meaning: Indicates the failure of an intermediate session setup due to insufficient storage. If the session connection manager is unable to allocate the resources needed for a session, it UNBINDS the session. The SNA *<sense_data>* denotes the exact error condition being reported.

Action: Check the memory on the router.

Entity Code/Event Code: 86/22

Severity: Warning

Message: SNA protocol error: Sense = *<sense_data>*, Alert code = *<product alert reference code>*, Sending CP name = *<CP_name>*, Destination LU name = *<LU_name>*.Meaning: The session connector has received an invalid request unit (RU) and has signaled the session connector manager to UNBIND the session. The SNA *<sense_data>* denotes the exact error condition being reported. The *<product alert reference code>* identifies the module in the multiprotocol network program that discovered the error.

Action: Check the communication program in the adjacent node; check the pacing parameters in the configuration.

Entity Code/Event Code: 86/23

Severity: Warning

Message: Software program error: Sense = *<sense_data>*, Alert code = *<product alert reference code>*, Sending CP name = *<CP_name>*, ABEND code = *<code>*.

Meaning: The communications program was abnormally terminated. Indicates an ABEND of a session connector or session connector manager for a reason other than lack of resources.

Action: If the message reoccurs and the problem persists, contact the Bay Networks Help Desk.

Entity Code/Event Code: 86/24

Severity: Warning

Message: Management services protocol error: Sense = *<sense_data>*, Alert code = *<product alert reference code>*, Sending CP name = *<CP_name>*.

Meaning: Indicates a management services protocol error. The received multiple-domain support message unit (MDS-MU) cannot be processed. The SNA *<sense_data>* denotes the exact error condition being reported.

Action: Check the communications program in the remote node. Contact the Bay Networks Help Desk if the problem persists.

Entity Code/Event Code: 86/25

Severity: Warning

Message: SNA protocol error: Sense = *<sense_data>*, Alert code = *<product alert reference code>*, Port name = *<link_station_name>*, TG name = *<transmission_group>*, Sending CP name = *<CP_name>*, Partner CP name = *<CP_name>*.

Meaning: Indicates an SNA protocol violation. The received path information unit (PIU) is discarded. The SNA *<sense_data>* denotes the exact error condition being reported.

Meaning: Check the communications program in the remote node. Contact the Bay Networks Help Desk if the problem persists.

Entity Code/Event Code: 86/26

Severity: Warning

Message: CP-CP session failure: Alert code = *<product alert reference code>*, TP name = *<transaction_program_name>*, Sending CP name = *<CP_name>*.

Meaning: A required transaction program cannot be started.

Action: Check the APPN configuration for any setting(s) that may be preventing the transaction program from starting.

Entity Code/Event Code: 86/27

Severity: Warning

Message: Unauthorized access attempted: Alert code = *<product alert reference code>*, TP name = *<transaction_program_name>*, Sending CP name = *<CP_name>*.

Meaning: Indicates that a BIND was received from an end node (EN) that this network node (NN) does not serve. If the end node includes the route selection control vector (RSCV) in the BIND, the network node does not make this check.

Action: Check the APPN configuration to see if the end node *<CP_name>* is properly configured.

Entity Code/Event Code: 86/28

Severity: Warning

Message: Session services protocol error: Sense = *<sense_data>*, Alert code = *<product alert reference code>*, Sending CP name = *<CP_name>*, Partner CP name = *<CP_name>*.

Meaning: Indicates a protocol violation on a LOCATE or BIND request. The SNA *<sense_data>* denotes the exact error condition being reported.

Action: Check the communications program at the remote node. Contact the Bay Networks Help Desk if the problem persists.

Info Events

Entity Code/Event Code: 86/29

Severity: Info

Message: Directory entry added: name = *<parent_resource_name>*, owner = *<parent_name>*.

Meaning: A directory entry was added to the local directory services database. This entry may have been generated by a local resource registration, or it may be the cached results of a network search.

Entity Code/Event Code: 86/30

Severity: Info

Message: Directory entry removed: name = *<parent_resource_name>*, owner = *<parent_name>*.

Meaning: A directory entry was removed from the local directory database. This entry may have been deregistered, suspected to be invalid, or is being replaced by a newer entry.

Entity Code/Event Code: 86/31

Severity: Info

Message: DLC activated: name = *<dlc_name>*

Meaning: The APPN interface was activated. The *<dlc_name>* is the configured DLC name.

Entity Code/Event Code: 86/32

Message: Info

Meaning: DLC deactivated: name = *<dlc_name>*.

Meaning: The APPN interface was deactivated. The *<dlc_name>* is the configured DLC name.

Entity Code/Event Code: 86/33

Severity: Info

Message: RTP Connection activated: name = *<name>*.

Meaning: The rapid transport protocol (RTP) connection was activated. The *<name>* indicates the 8-byte RTP connection name.

Entity Code/Event Code: 86/34

Severity: Info

Message: RTP Connection deactivated: name = *<name>*.Meaning: The rapid transport protocol (RTP) connection was deactivated. The *<name>* indicates the 8-byte RTP connection name.**Entity Code/Event Code: 86/35**

Severity: Info

Message: Focal point acquired: ms category = *<focal_point_category>*, fp name = *<CP_name>*, appl name = *<focal_point_application_name>*, fp type = *<focal_point_type>*.Meaning: The local network node acquired SNA-formatted network management data from an entry point node on the network. A focal point is an entry point that provides centralized management and control for other entry points. The fp name is the fully qualified control point name of the current focal point. The appl name is the name of the current focal point application. The fp type indicates the type of focal point: explicit primary, backup, default primary, domain, or host. For detailed information on focal and entry points, refer to the IBM publication, *IBM Systems Network Architecture: Management Services (SC30-3346)*.**Entity Code/Event Code: 86/36**

Severity: Info

Message: Focal point revoked: ms category = *<focal_point_category>*, fp name = *<CP_name>*, appl name = *<focal_point_application_name>*, fp type = *<focal_point_type>*.Meaning: The local network node revoked SNA-formatted network management data from an entry point node on the network. A focal point is an entry point that provides centralized management and control for other entry points. The fp name is the fully qualified control point name of the current focal point. The appl name is the name of the current focal point application. The fp type indicates the type of focal point: explicit primary, backup, default primary, domain, or host. For detailed information on focal and entry points, refer to the IBM publication, *IBM Systems Network Architecture: Management Services (SC30-3346)*.

Entity Code/Event Code: 86/37

Severity: Info

Message: ISR session activated: FQCP name = *<CP_name>*, PCID = *<procedure_correlator_ID>*.

Meaning: An intermediate session was activated. The FQCP name indicates the fully qualified control point name of the originator of the session. The PCID indicates the 8-byte hexadecimal procedure correlator ID of the activated session.

Entity Code/Event Code: 86/38

Severity: Info

Message: ISR session deactivated: FQCP name = *<CP_name>*, PCID = *<procedure_correlator_ID>*.

Meaning: An intermediate session was deactivated. The FQCP name indicates the fully qualified control point name of the originator of the session. The PCID indicates the 8-byte hexadecimal procedure correlator ID of the deactivated session.

Entity Code/Event Code: 86/39

Severity: Info

Message: TG activated: dest name = *<node_name>*, dest type = *<node_type>*, TG number = *<number>*.

Meaning: The transmission group indicated by the TG number was activated. The dest name is the fully qualified destination node name. The destination type indicates an end node (EN) or network node (NN).

Entity Code/Event Code: 86/40

Severity: Info

Message: TG deactivated: dest name = *<node_name>*, dest type = *<node_type>*, TG number = *<number>*.

Meaning: The transmission group indicated by the TG number was deactivated. The dest name is the fully qualified destination node name. The destination type indicates an end node (EN) or network node (NN).

Entity Code/Event Code: 86/41

Severity: Info

Message: LS activated: ls name = *<link_station_name>*, adjacent CP name = *<CP_name>*, adjacent node type = *<node_type>*.Meaning: The link station indicated by the *<link_station_name>* was activated. The adjacent CP name indicates the control point name. The adjacent node type indicates an end node (EN), or network node (NN).**Entity Code/Event Code: 86/42**

Severity: Info

Message: LS deactivated: ls name = *<link_station_name>*, adjacent CP name = *<CP_name>*, adjacent node type = *<node_type>*.Meaning: The link station indicated by the *<link_station_name>* was deactivated. The adjacent CP name indicates the control point name. The adjacent node type can be an end node (EN), network node (NN), or low-entry networking node (LEN).**Entity Code/Event Code: 86/43**

Severity: Info

Message: NN Topology — Node activated: node name = *<name>*, node type = *<node_type>*.

Meaning: A topology update was received indicating that a node is now active. The node name is the fully qualified name of the node. The node type indicates a network node (NN) or a virtual routing node (VRN).

Entity Code/Event Code: 86/44

Severity: Info

Message: NN Topology — Node deactivated: node name = *<name>*, node type = *<node_type>*.

Meaning: A topology update was received indicating that a node is now inactive. The node name is the fully qualified name of the node. The node type indicates a network node (NN) or a virtual routing node (VRN).

Entity Code/Event Code: 86/45

Severity: Info

Message: NN Topology — TG activated: owner name = *<node_name>*, dest name = *<node_name>*, TG number = *<number>*.

Meaning: A topology update was received indicating that a TG is now active. The owner name indicates the name of the originating node. The destination name is the fully qualified destination node for the TG. The TG number identifies the TG between the two nodes.

Entity Code/Event Code: 86/46

Severity: Info

Message: NN Topology — TG deactivated: owner name = *<node_name>*, dest name = *<node_name>*, TG number = *<number>*.

Meaning: A topology update was received indicating that a TG is now inactive. The owner name indicates the name of the originating node. The destination name is the fully qualified destination node for the TG. The TG number identifies the TG between the two nodes.

Entity Code/Event Code: 86/47

Severity: Info

Message: PORT activated: name = *<port_name>*.

Meaning: The port indicated by the *<port_name>* was activated.

Entity Code/Event Code: 86/48

Severity: Info

Message: PORT deactivated: name = *<link_station_name>*.

Meaning: The port indicated by the *<port_name>* was deactivated.

Entity Code/Event Code: 86/49

Severity: Info

Message: Endpoint session activated: LU name = *<LU_name>*, PLU name = *<LU_name>*.

Meaning: A session was activated between a local LU and a partner LU. The LU name is an 8-byte character string.

Entity Code/Event Code: 86/50

Severity: Info

Message: Endpoint session deactivated: LU name = <LU_name>, PLU name = <LU_name>.

Meaning: A session was deactivated between a local LU and a partner LU. The LU name is an 8-byte character string.

Entity Code/Event Code: 86/51

Severity: Info

Message: APING initiated, FQLU name = <LU_name>.

Meaning: An APING command was issued from the technician interface to the fully qualified <LU_name>. For detailed information on APING, refer to the Bay Networks manual, *Using Technician Interface Software*.**Entity Code/Event Code: 86/52**

Severity: Info

Message: APING completed, FQLU name = <LU_name>.

Meaning: An APING command was issued from the technician interface to the fully qualified target LU and was successful. For detailed information on APING, refer to the Bay Networks manual, *Using Technician Interface Software*.**Entity Code/Event Code: 86/53**

Severity: Info

Message: APING failed, FQLU name = <LU_name>.

Meaning: An APING command was issued from the technician interface to the fully qualified target LU and failed.

Action: Retry the **ping -appn** command and ensure that you have specified a correct <LU_name>. For detailed information on APING, refer to the Bay Networks manual, *Using Technician Interface Software*.

ARP Events

The Address Resolution Protocol service, referred to as the ARP entity, issues the following event messages. The entity code assigned to ARP events is 19.

Warning Events

Entity Code/Event Code: 19/8

Severity: Warning

Message: "HO <host_only_mode>: no client off <offset_no.> cct <circuit_no.>"

Meaning: A packet was received for ARP while the router was in host only mode. This should not have occurred. Packets for ARP in host only mode should have been screened at a lower level. The packet is dropped.

Info Events

Entity Code/Event Code: 19/1

Severity: Info

Message: Service is up on circuit <circuit_no.>

Meaning: ARP is providing service to the specified circuit.

Entity Code/Event Code: 19/2

Severity: Info

Message: Service is down on circuit <circuit_no.>

Meaning: ARP is no longer providing service to the specified circuit.

Entity Code/Event Code: 19/5

Severity: Info

Message: Invalid ARP Source: <source_IP_address> MAC: <MAC_address> on <interface_address>

Meaning: ARP received a resolution request from a host on a different network.

Entity Code/Event Code: 19/6

Severity: Info

Message: Invalid ARP Request: Src: <source_IP_address> MAC: <MAC_address> & Dest: <destination_IP_address> on diff nets

Meaning: The source and destination address of the ARP request are on different networks.

ASync Events

The asynchronous protocol (ASync) issues the following event messages. The entity code assigned to ASync events is 87.

Fault Event

Entity Code/Event Code: 87/1

Severity: Fault

Message: System error, async TTY service attempting restart.

Meaning: The ASync driver experienced a fatal error and is restarting automatically. The driver will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call the Bay Networks Help Desk if the ASync driver fails to restart.

Warning Events

Entity Code/Event Code: 87/2

Severity: Warning

Message: Connector COM <connector_no.> out of range.

Meaning: The synchronous connector COM <connector_no.> is invalid and will be ignored.

Action: Modify the configuration file to accurately describe the link module described in the specified slot.

Entity Code/Event Code: 87/3

Severity: Warning

Message: Connector COM <connector_no.> not verified with diagnostic.

Meaning: The connector identified by <connector_no.> has been placed in service. However, powerup diagnostics were aborted/terminated prior to verifying the connection.

Action: Rerun powerup diagnostics by issuing the technician interface **diags** command to the slot in question if you wish to verify COM <connector_no.> integrity.

Entity Code/Event Code: 87/4

Severity: Warning

Message: Connector COM <connector_no.>: Failed to connect to, port <port_no.>.
Connector COM <connector_no.>: Listening failed on, port <port_no.>.
Connector COM <connector_no.>: Invalid remote IP address, port <port_no.>.
Connector COM <connector_no.>: Connect failed to, port <port_no.>.

Meaning: A connection or listening failure occurred when the ASYNc protocol attempted to connect to a destination port, or an invalid remote IP address was specified.

Action: Check the ASYNc configuration for an incorrect remote IP address, or check the cabling and connection to the remote port.

Entity Code/Event Code: 87/5

Severity: Warning

Message: Connector COM <connector_no.>: Inactivity time out on connection.

Meaning: The ASYNc idle timer value was exceeded and the connection timed out.

Action: Check the ASYNc configuration and increase the idle timer value.

Entity Code/Event Code: 87/6

Severity: Warning

Message: Connector COM <connector_no.>: Data Comms Equipment (DCE) unavailable (connection indicator signal lost).

Meaning: The connection indicator (Data Set Ready) on the specified synchronous connection has been lost.

Action: Check your cables.

Entity Code/Event Code: 87/7

Severity: Warning

Message: Configured Connector COM <connector_no.>: Configured MTU of <value_1> is too large, use <value_2> or smaller

Meaning: The MTU on the specified synchronous connection is too large.

Action: Reconfigure the MTU for the specified synchronous connector so that it is equal to or less than the value specified by <value_2>.

Info Events**Entity Code/Event Code: 87/8**

Severity: Info

Message: Connector COM <connector_no.> disabled.

Meaning: The synchronous connection COM <connector_no.> is disabled.

Entity Code/Event Code: 87/9

Severity: Info

Message: Connector COM <connector_no.> enabled.

Meaning: The synchronous connection COM <connector_no.> is enabled.

Entity Code/Event Code: 87/10

Severity: Info

Message: Connector COM <connector_no.> configuration deleted.

Meaning: The record for the specified synchronous connection has been deleted from the configuration.

Entity Code/Event Code: 87/11

Severity: Info

Message: Connector COM <connector_no.> providing LLC1 service.

Meaning: The specified synchronous connection is enabled and providing LLC1 service.

Entity Code/Event Code: 87/12

Severity: Info

Message: Connector COM <connector_no.>: Providing asynch passthrough service.

Meaning: The ASYNC protocol was enabled on a specific communications port.

Entity Code/Event Code: 87/13

Severity: Info

Message: Connector COM <connector_no.>: Aborting connection to, port <port_no.>
Connector COM <connector_no.>: Connecting to, port <port_no.>.
Connector COM <connector_no.>: Listening on, port <port_no.>.
Connector COM <connector_no.>: Calling, port <port_no.>.
Connector COM <connector_no.>: Connected to, port <port_no.>.
Connector COM <connector_no.>: Connection timed out, port <port_no.>.
Connector COM <connector_no.>: Connection aborted by, port <port_no.>.
Connector COM <connector_no.>: Connection closed by, port <port_no.>.

Meaning: These are informational messages reporting the current ASYNC status.

ATM Events

The Asynchronous Transfer Mode service, referred to as the ATM entity, issues the following event messages. The entity code assigned to ATM events is 78.

Fault Event

Entity Code/Event Code: 78/24

Severity: Fault

Message: System error, service attempting restart.

Meaning: ATM experienced a fatal error and is restarting automatically. ATM attempts to restart.

Action: Verify that the configuration is correct. Call the Bay Networks Help Desk if ATM fails to restart.

Warning Events

Entity Code/Event Code: 78/16

Severity: Warning

Message: Line <line_no.>: No ATM Interface MIB entry found.

Meaning: The ATM Interface Table (object ID 1.3.6.1.4.18.3.4.23.1.1) does not contain an entry for the specified line.

Action: Check the configuration of the ATM interface. Make sure that the line number equals the line number in the physical interface entry.

Entity Code/Event Code: 78/17

Severity: Warning

Message: Line <line_no.> Cct <circuit_no.>: No ATM Service Record MIB entry found.

Meaning: No ATM services record exists on line <line_no.> Cct <circuit_no.>.

Action: Configure an ATM service record for this line circuit combination.

Entity Code/Event Code: 78/18

Severity: Warning

Message: Line <line_no.>: Pkt length error- <SHORT/LONG>.

Meaning: ATM rejected a received frame because it was either less than six characters long (short) or longer than the maximum allowed frame size for the current media (long).

Entity Code/Event Code: 78/19

Severity: Warning

Message: Vpi/Vci <VPI_no.>/<VCI_no.> configured as <HYBRID/DIRECT> but with no Direct Circuit value.

Meaning: A circuit value is missing for this direct/hybrid virtual channel.

Action: Check the VCL entry and verify that the direct circuit number is not 0.

Entity Code/Event Code: 78/20

Severity: Warning

Message: ATM received a response from the driver for unknown call reference <call_ref> on line number <line_no.>.

Meaning: The driver sent ATM a commit, reserve, or release message with an unknown call reference.

Action: Contact the Bay Networks Help Desk.

Entity Code/Event Code: 78/21

Severity: Warning

Message: ATM unable to allocate memory.

Meaning: ATM was unable to allocate buffer memory.

Action: Contact the Bay Networks Help Desk.

Entity Code/Event Code: 78/22

Severity: Warning

Message: ATM call reference <call_ref> already used.

Meaning: ATM has been requested to act upon an already used call reference.

Action: Contact the Bay Networks Help Desk.

Entity Code/Event Code: 78/23

Severity: Warning

Message: ATM registration failed on cct <circuit_no.>.

Meaning: The circuit <circuit_no.> cannot forward a registration message to ATM.

Action: Contact the Bay Networks Help Desk.

Info Events

Entity Code/Event Code: 78/01

Severity: Info

Message: Line <line_no.>: ATM Service provided.

Meaning: ATM service has completed initialization on the specified line.

Entity Code/Event Code: 78/02

Severity: Info

Message: Line <line_no.>: ATM Service activated on Interface.

Meaning: ATM service is enabled on the specified line.

Entity Code/Event Code: 78/03

Severity: Info

Message: Line <line_no.>: ATM Service terminating.

Meaning: ATM service is terminating on the specified line.

Entity Code/Event Code: 78/04

Severity: Info

Message: Line <line_no.>: ATM Service is down.

Meaning: ATM service is not operational on the specified line.

Entity Code/Event Code: 78/05

Severity: Info

Message: Line <line_no.>: ATM Interface disabled.

Meaning: The ATM interface is disabled on the specified line.

Entity Code/Event Code: 78/06

Severity: Info

Message: Line <line_no.>: ATM Interface enabled.

Meaning: The ATM interface is enabled on the specified line.

Entity Code/Event Code: 78/07

Severity: Info

Message: Line <line_no.> Cct <circuit_no.> ATM Service Record disabled.

Meaning: The ATM Service Record is disabled on the specified line and circuit number.

Entity Code/Event Code: 78/08

Severity: Info

Message: Line <line_no.>: VPI/VCI <VPI_no.>/<VCI_no.> activated.

Meaning: The specified Virtual Path Identifier/Virtual Circuit Identifier is up and running on the specified line.

Entity Code/Event Code: 78/09

Severity: Info

Message: Line <line_no.>: VPI/VCI <VPI_no.>/<VCI_no.> deleted.

Meaning: The specified Virtual Path Identifier/Virtual Circuit Identifier is deleted from the specified line.

Entity Code/Event Code: 78/10

Severity: Info

Message: Line <line_no.>: VPI/VCI <VPI_no.>/<VCI_no.> enabled.

Meaning: The specified Virtual Path Identifier/Virtual Circuit Identifier is enabled on the specified line.

Entity Code/Event Code: 78/11

Severity: Info

Message: Line <line_no.>: VPI/VCI <VPI_no.>/<VCI_no.> reconfigured.

Meaning: The specified Virtual Path Identifier/Virtual Circuit Identifier is reconfigured.

Entity Code/Event Code: 78/12

Severity: Info

Message: Line <line_no.>: VPI/VCI <VPI_no.>/<VCI_no.> disabled.

Meaning: The specified Virtual Path Identifier/Virtual Circuit Identifier is disabled on the specified line.

Entity Code/Event Code: 78/13

Severity: Info

Message: Line <line_no.>: VPI/VCI <VPI_no.>/<VCI_no.> has been added.

Meaning: The specified line now contains the specified Virtual Path Identifier/Virtual Circuit Identifier.

Entity Code/Event Code: 78/14

Severity: Info

Message: Line <line_no.>: Multiple duplicate active lines

Meaning: Duplicate lines are in the process of becoming active. Contact the Bay Networks Help Desk.

Entity Code/Event Code: 78/15

Severity: Info

Message: Line <line_no.>: Bad cct number

Meaning: ATM has received a circuit number of 0 from the driver.

Trace Events**Entity Code/Event Code: 78/25**

Severity: Trace

Message: Deleted ATM Interface Table

Meaning: The ATM Interface Table is deleted from the VCL.

Entity Code/Event Code: 78/26

Severity: Trace

Message: Deleted VPI/VCI <VPI_no.>/<VCI_no.> ATM VCL Table

Meaning: The ATM Virtual Channel Link Table no longer contains the specified Virtual Path Identifier / Virtual Circuit Identifier.

ATM_DXI Events

The Asynchronous Transfer Mode/Data Exchange Interface service, referred to as the ATM_DXI entity, issues the following event messages. The entity code assigned to ATM_DXI events is 49.

Note: The <low_level_index> variable shown in several of the event messages is reserved for future use.

Fault Event

Entity Code/Event Code: 49/36

Severity: Fault

Message: System error, service attempting restart.

Meaning: ATM DXI experienced a fatal error and is restarting automatically. ATM DXI will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if ATM DXI fails to restart.

Warning Events

Entity Code/Event Code: 49/22

Severity: Warning

Message: Line <line_no.> LLIndex <low_level_index>: ATM LMI received invalid message type <message_type>.

Meaning: The Local Management Interface (LMI) protocol has dropped a packet, because it did not recognize or could not parse the message type. The valid message types are 0 (GetRequest), 1 (GetNextRequest), 2 (GetResponse), 3 (SetRequest), and 4 (Trap).

Entity Code/Event Code: 49/23

Severity: Warning

Message: Line <line_no.> LLIndex <low_level_index>: ATM LMI address is of incorrect type.

Meaning: The Local Management Interface protocol has dropped a packet because of an address type mismatch.

Entity Code/Event Code: 49/24

Severity: Warning

Message: Line <line_no.> LLIndex <low_level_index>: No ATM Interface MIB entry found.

Meaning: The ATM Interface Table (object ID 1.3.6.1.4.18.3.5.9.5.2) does not contain an entry for the specified line.

Action: Check the configuration of the ATM interface. Make sure that the line number is equal to the line number in the physical interface entry.

Entity Code/Event Code: 49/25

Severity: Warning

Message: Line <line_no.> LLIndex <low_level_index>: ATM LMI service has terminated.

Meaning: The LMI protocol has failed or been removed from the specified line.

Entity Code/Event Code: 49/26

Severity: Warning

Message: Line <line_no.> LLIndex <low_level_index>: Bad vpi/vci <VPI_ID>/<VCI_ID> for a <packet_type>.

Meaning: The ATM DXI code has dropped a packet received on the specified line, because the destination virtual path/virtual circuit is unknown.

Action: Check the configuration of the ATM PVC. Verify that the VPI and VCI have been configured.

Entity Code/Event Code: 49/27

Severity: Warning

Message: Line <line_no.> LLIndex <low_level_index>: No extended address bit in atm dxi header.

Meaning: The ATM DXI code has dropped a packet because of a mismatch between the setting of the extended address bit and the actual length of the address contained in the packet.

Entity Code/Event Code: 49/28

Severity: Warning

Message: Line <line_no.> LLIndex <low_level_index>: Pkt length error- <SHORT/LONG>.

Meaning: A received frame has been rejected because it was either less than six characters long (short) or longer than the maximum allowed frame size for the current media (long).

Entity Code/Event Code: 49/29

Severity: Warning

Message: Line <line_no.> LLIndex <low_level_index>: Unsupported control (<rcvd_control_value>) on PVC <VPI_ID>/<VCI_ID>.

Meaning: The specified virtual path/virtual circuit received an unknown or unsupported Control field. The received control value must be the same as the value defined by RFC 1294.

Action: Check the configuration of the ATM interface or the ATM PVC. Verify that both endpoints have the same configuration.

Entity Code/Event Code: 49/30

Severity: Warning

Message: Line <line_no.> LLIndex <low_level_index> — CS_PDU length mismatch on ATM PVC <VPI_ID>/<VCI_ID>.

Meaning: A Convergence Sublayer Packet Data Unit (CS_PDU) has been discarded, because a comparison of the header BAsize field, the Trailer Length field, and the actual length of the CS_VCI_PDU showed a mismatch.

Entity Code/Event Code: 49/31

Severity: Warning

Message: Line <line_no.> LLIndex <low_level_index> — Misdellivered CS_PDU detected.

Meaning: A Segmentation and Reassembly Packet Data Unit (CS_PDU) has been discarded, because an invalid virtual path ID/virtual circuit ID was detected at the CS ATM Adaption layer.

Action: Check the configuration of the ATM interface or the ATM PVC.

Entity Code/Event Code: 49/32

Severity: Warning

Message: Line <line_no.> LLIndex <low_level_index> — Misdellivered MPE_PDU detected.

Meaning: An MPE_PDU has been discarded because of an inactive SAP (Service Access Point).

Action: Check the configuration of the ATM Interface or the ATM PVC. Verify that both endpoints have the same configuration.

Entity Code/Event Code: 49/33

Severity: Warning

Message: Line <line_no.> LLIndex <low_level_index> — CS_PDU BETag mismatch on ATM PVC <VPI_ID>/<VCI_ID>.

Meaning: A CS_PDU has been discarded, because the header BETag and the trailer BETag failed to match.

Entity Code/Event Code: 49/34

Severity: Warning

Message: Vpi/Vci <VPI_ID>/<VCI_ID> configured as <HYBRID/DIRECT> but with no Direct Circuit value.

Meaning: A circuit value is missing for this direct/hybrid virtual channel. Check the PVC entry and verify that the direct circuit number is not 0.

Entity Code/Event Code: 49/35

Severity: Warning

Message: LMI response from DSU timed out on line <line_no.> LLIndex <low_level_index>

Meaning: The LMI response from the DSU has timed out on the specified line.

Entity Code/Event Code: 49/66

Severity: Warning

Message: Line <line_no.> LLIndex <low_level_index>:Illegal AAL configured for specified ATM DXI Mode.

Meaning: The value entered for the CS_PDU Encapsulation parameter cannot be configured with the value set for the DXI Mode parameter.

Action: Change the value of the CS_PDU Encapsulation parameter.

Entity Code/Event Code: 49/67

Severity: Warning

Message: Line <line_no.> LLIndex <low_level_index>VPI/VCI <VPI_ID>/<VCI_ID>: Illegal AAL configured for specified ATM DXI Mode.

Meaning: The value entered for the CS_PDU Encapsulation parameter cannot be configured with the value set for the DXI Mode parameter.

Action: Change the value of the CS_PDU Encapsulation parameter.

Info Events

Entity Code/Event Code: 49/1

Severity: Info

Message: Line <line_no.>: ATM DXI Service provided.

Meaning: ATM DXI service has completed initialization on the specified line.

Entity Code/Event Code: 49/2

Severity: Info

Message: Line <line_no.> LLIndex <low_level_index>: ATM DXI Service activated on Interface.

Meaning: ATM DXI service is enabled on the specified line.

Entity Code/Event Code: 49/3

Severity: Info

Message: Line <line_no.> LLIndex <low_level_index>: ATM DXI Service terminating.

Meaning: ATM DXI service has gone down on the specified line.

Entity Code/Event Code: 49/4

Severity: Info

Message: Line <line_no.> LLIndex <low_level_index>: ATM DXI Service is down.

Meaning: ATM DXI service is down on the specified line.

Entity Code/Event Code: 49/5

Severity: Info

Message: Line <line_no.> LLIndex <low_level_index>: ATM DXI Delay in down Service.

Meaning: Another line is currently being removed from service at the same time the specified line is queued to be removed.

Entity Code/Event Code: 49/6

Severity: Info

Message: Line <line_no.> LLIndex <low_level_index>: ATM LMI Enabled.

Meaning: LMI has been enabled on the specified line.

Entity Code/Event Code: 49/7

Severity: Info

Message: Line <line_no.> LLIndex <low_level_index>: ATM LMI Disabled.

Meaning: LMI has been disabled on the specified line.

Entity Code/Event Code: 49/8

Severity: Info

Message: Line <line_no.> LLIndex <low_level_index>: Cold Start trap received from DSU.

Meaning: ATM received a Cold Start trap from the DSU. A Cold Start trap indicates that the DSU has restarted and may have altered its configuration.

Entity Code/Event Code: 49/9

Severity: Info

Message: Line <line_no.> LLIndex <low_level_index>: Warm Start trap received from DSU.

Meaning: ATM received a Warm Start trap from the DSU device. A Warm Start trap indicates that the DSU has restarted and has not altered its configuration.

Entity Code/Event Code: 49/10

Severity: Info

Message: Line <line_no.> LLIndex <low_level_index>: Link Down trap received from DSU.

Meaning: ATM received a Link Down trap from the DSU. A Link Down trap indicates that the DSU network interface has been taken out of service.

Entity Code/Event Code: 49/11

Severity: Info

Message: Line <line_no.> LLIndex <low_level_index>: Link Up trap received from DSU.

Meaning: ATM received a Link Up trap from the DSU. A Link Up trap indicates that the DSU network interface has been put into service, or has been restored to service.

Entity Code/Event Code: 49/12

Severity: Info

Message: Line <line_no.> LLIndex <low_level_index>: Enterprise Specific trap received from DSU.

Meaning: ATM received an Enterprise Specific trap from the DSU.

Entity Code/Event Code: 49/13

Severity: Info

Message: Line <line_no.> LLIndex <low_level_index>: ATM DXI Interface disabled.

Meaning: The ATM interface has been disabled on the specified line.

Entity Code/Event Code: 49/14

Severity: Info

Message: Line <line_no.> LLIndex <low_level_index>: ATM DXI Interface enabled.

Meaning: The ATM interface has been enabled on the specified line.

Entity Code/Event Code: 49/15

Severity: Info

Message: Line <line_no.> LLIndex <low_level_index>: vpi/vci <VPI_ID>/<VCI_ID> has been activated.

Meaning: The specified Virtual Path Interface ID/Virtual Circuit Interface ID is up and running on the specified line.

Entity Code/Event Code: 49/16

Severity: Info

Message: Line <line_no.> LLIndex <low_level_index>: vpi/vci <VPI_ID>/<VCI_ID> deleted.

Meaning: The specified Virtual Path Interface ID/Virtual Circuit Interface ID has been deleted from the specified line.

Entity Code/Event Code: 49/17

Severity: Info

Message: Line <line_no.> LLIndex <low_level_index>: vpi/vci <VPI_ID>/<VCI_ID> enabled.

Meaning: The specified Virtual Path Interface ID/Virtual Circuit Interface ID has been enabled on the specified line.

Entity Code/Event Code: 49/18

Severity: Info

Message: Line <line_no.> LLIndex <low_level_index>: vpi/vci <VPI_ID>/<VCI_ID> reconfigured.

Meaning: The specified Virtual Path Interface ID/Virtual Circuit Interface ID has been reconfigured.

Entity Code/Event Code: 49/19

Severity: Info

Message: Line <line_no.> LLIndex <low_level_index>: vpi/vci <VPI_ID>/<VCI_ID> disabled.

Meaning: The specified Virtual Path Interface ID/Virtual Circuit Interface ID has been disabled on the specified line.

Entity Code/Event Code: 49/20

Severity: Info

Message: Line <line_no.> LLIndex <low_level_index>: vpi/vci <VPI_ID>/<VCI_ID> has been added.

Meaning: The specified Virtual Path Interface ID/Virtual Circuit Interface ID has been added to the specified line.

Entity Code/Event Code: 49/21

Severity: Info

Message: Line <line_no.>: Multiple duplicate active lines

Meaning: Duplicate lines are in the process of becoming active. Call Bay Networks Help Desk.

Trace Events

Entity Code/Event Code: 49/37

Severity: Trace

Message: ATM Base Statistics Table created

Meaning: The router has completed creation of the ATM base.

Entity Code/Event Code: 49/38

Severity: Trace

Message: Line <line_no.> LLIndex <low_level_index>: Deleted ATM Interface Table

Meaning: The interface record for the specified line has been deleted.

Entity Code/Event Code: 49/39

Severity: Trace

Message: Line <line_no.> LLIndex <low_level_index>: Deleted ATM LMI Table

Meaning: The LMI record for the specified line has been deleted.

Entity Code/Event Code: 49/40

Severity: Trace

Message: Line <line_no.> LLIndex <low_level_index>: Deleted ATM VBR CS Table

Meaning: The Convergence Sublayer/Variable Bit Rate Type 3 record for the specified line has been deleted.

Entity Code/Event Code: 49/41

Severity: Trace

Message: Line <line_no.> LLIndex <low_level_index>: Deleted ATM DXI Router Table

Meaning: The DXI routing record for the specified line has been deleted.

Entity Code/Event Code: 49/42

Severity: Trace

Message: Line <line_no.> LLIndex <low_level_index>: Deleted ATM PLCP Table

Meaning: The Physical Layer Convergence Protocol record for the specified line has been deleted.

Entity Code/Event Code: 49/43

Severity: Trace

Message: Line <line_no.> LLIndex <low_level_index>: Deleted ATM UNI Table

Meaning: The User Network Interface record for the specified line has been deleted.

Entity Code/Event Code: 49/44

Severity: Trace

Message: Line <line_no.> LLIndex <low_level_index>: Deleted ATM VBR Table

Meaning: The Variable Bit Rate Type 3 record for the specified line has been deleted.

Entity Code/Event Code: 49/45

Severity: Trace

Message: Line <line_no.> LLIndex <low_level_index>: Deleted ATM VBR SAR Table

Meaning: The Variable Bit Rate Type 3/Segmentation and Reassembly record for the specified line has been deleted.

Entity Code/Event Code: 49/46

Severity: Trace

Message: Line <line_no.> LLIndex <low_level_index>: Deleted ATM DXI DSU Table

Meaning: The ATM DXI DSU Table for the specified line has been deleted.

Entity Code/Event Code: 49/47

Severity: Trace

Message: Line <line_no.> LLIndex <low_level_index>: Deleted VPI/VCI<VPI_ID>/<VCI_ID>
ATM CS VCI Table

Meaning: The specified Virtual Path Interface ID/Virtual Circuit Interface ID has been deleted from the ATM Convergence Sublayer VCI Table.

Entity Code/Event Code: 49/48

Severity: Trace

Message: Line <line_no.> LLIndex <low_level_index>: Deleted VPI/VCI <VPI_ID>/<VCI_ID>
ATM PVC Table

Meaning: The specified Virtual Path Interface ID/Virtual Circuit Interface ID has been deleted from the ATM Permanent Virtual Circuit Table.

Entity Code/Event Code: 49/49

Severity: Trace

Message: Line <line_no.> LLIndex <low_level_index>: Deleted VPI/VCI<VPI_ID>/<VCI_ID>
ATM DXI DXIADDR Table

Meaning: The specified Virtual Path Interface ID/Virtual Circuit Interface ID has been deleted from the DXI Address Table.

ATMINTF Events

The Asynchronous Transfer Mode Interface service, referred to as the ATMINTF entity, issues the following event messages. The entity code assigned to ATMINTF events is 76.

Fault Event

Entity Code/Event Code: 76/01

Severity: Fault

Message: Port <port_no.>: diagnostic failed with status <status>.

Meaning: The diagnostic process has detected a hardware failure.

Action: Contact the Bay Networks Help Desk.

Entity Code/Event Code: 76/02

Severity: Fault

Message: System error, service attempting restart.

Meaning: The ATMALC driver encountered a problem from which it could not recover.

Action: The ATMALC driver automatically restarts so no manual intervention is necessary. However, save the log and configuration file for analysis by Bay Networks Service Personnel, should the problem persist.

Warning Event

Entity Code/Event Code: 76/20

Severity: Warning

Message: Port <port_no.>: not verified with diagnostic.

Meaning: The diagnostic process did not execute to determine the health of the link module.

Action: If you desire diagnostics, reset the slot.

Entity Code/Event Code: 76/21

Severity: Warning

Message: Port <port_no.>: data path service withdrawn.

Meaning: The driver has withdrawn the service which allows protocols to transmit and receive data.

Action: Either re-enable the driver or connect the fiber connection into the physical interface.

Entity Code/Event Code: 76/22

Severity: Warning

Message: No RAM daughterboard installed.

Meaning: The ATM link module has no dual port memory daughterboard installed. The ATM link module must contain this daughterboard in order to initialize and execute.

Action: Remove the ATM link module and install a memory daughterboard.

Entity Code/Event Code: 76/23

Severity: Warning

Message: Port <port_no.>: dropped coprocessor command <command> due to full queue.

Meaning: The ATM driver is unable to issue a control command to the coprocessor entity on the link module because the queue is full.

Action: If the ATM driver failed while attempting to activate a virtual channel, re-enable the channel; otherwise, ignore this message.

Entity Code/Event Code: 76/24

Severity: Warning

Message: Port <port_no.>: control message length <length> too short for command <command>.

Meaning: The ATM driver cannot issue a control command to the coprocessor entity on the link module because the queue is full.

Action: If the ATM driver failed while attempting to activate a virtual channel, re-enable the channel; otherwise, ignore this message.

Entity Code/Event Code: 76/25

Severity: Warning

Message: Port <port_no.>: bad status (<status>) from coprocessor, command <command>.

Meaning: The ATM driver received a bad return status from the coprocessor entity resulting from a control command request.

Action: If the ATM driver failed while attempting to activate a virtual channel, re-enable the channel; otherwise, ignore this message.

Entity Code/Event Code: 76/26

Severity: Warning

Message: Port <port_no.>: unsupported opcode <opcode> in control message.

Meaning: The ATM driver received a control message from another entity with an unsupported operation code.

Action: If the ATM driver failed while attempting to activate a virtual channel, re-enable the channel; otherwise, ignore this message.

Entity Code/Event Code: 76/27

Severity: Warning

Message: Port <port_no.>: transceiver disconnected.

Meaning: The physical interface (transceiver) disconnected from the network. This event is analogous to loss of signal.

Action: Reconnect the fiber optic cable connection to the transceiver, check if the neighbor transceiver is operational, or verify that the fiber optic cable is not broken.

Entity Code/Event Code: 76/28

Severity: Warning

Message: Port <port_no.>: framer out of cell delineation.

Meaning: The framer device on the link module has lost cell alignment coming from the transceiver interface after being enabled.

Action: This condition is transient and the physical interface should eventually detect cell alignment. If the condition persists, contact the Bay Networks Help Desk.

Entity Code/Event Code: 76/29

Severity: Warning

Message: Port <port_no.>: activate virtual channel (call reference <call_reference>) failed; AAL type not supported (<aal_type>).

Meaning: An attempt to activate a virtual channel connection failed because the specified ATM Adaptation Layer (AAL) type is unsupported.

Action: Reconfigure the virtual channel with a valid AAL type.

Entity Code/Event Code: 76/30

Severity: Warning

Message: Port <port_no.>: activate virtual channel (call reference <call_reference>) failed; no rate queue available.

Meaning: An attempt to activate a virtual channel connection failed because no internal ATM driver rate queues are available.

Action: Reconfigure the virtual channel after another virtual channel deactivates and queue space is available.

Entity Code/Event Code: 76/31

Severity: Warning

Message: Port <port_no.>: activate virtual channel (call reference <call_reference>) failed; maximum VCs exceeded.

Meaning: An attempt to activate a virtual channel connection failed because the interface has reached the maximum number of virtual channel connections (1024 total – 32 reserved for management features = 992 user-definable virtual channel connections).

Action: Reconfigure the virtual channel after another virtual channel deactivates and the interface no longer exceeds the maximum number of virtual channel connections.

Entity Code/Event Code: 76/32

Severity: Warning

Message: Port <port_no.>: activate virtual channel (call reference <call_reference>) failed; invalid traffic parameters.

Meaning: An attempt to activate a virtual channel connection failed because the traffic shaping parameters are invalid. The traffic shaping parameters are Peak Cell Rate (PCR), Sustainable Cell Rate (SCR), and Maximum Burst Size (MBS).

Action: Reconfigure the virtual channel with valid traffic-shaping parameters.

Entity Code/Event Code: 76/33

Severity: Warning

Message: Port <port_no.>: activate virtual channel VPI = <VPI_no.> / VCI = <VCI_no.> (call reference <call_reference>) failed; already activated.

Meaning: An attempt to activate a virtual channel connection failed because the virtual channel already exists.

Action: You must either reconfigure the virtual channel with a different Virtual Path Identifier (VPI) or Virtual Channel Identifier (VCI), or disable the previous configuration of the virtual channel with the same VPI/VCI.

Entity Code/Event Code: 76/34

Severity: Warning

Message: Port <port_no.>: activate virtual channel VPI = <VPI_no.> / VCI = <VCI_no.> (call reference <call_reference>) failed; call reference mismatch

Meaning: An attempt to activate a virtual channel connection failed because the request to commit virtual channel resources does not match the previous reservation request.

Action: Reconfigure the virtual channel.

Entity Code/Event Code: 76/35

Severity: Warning

Message: Port <port_no.>: activate virtual channel VPI = <VPI_no.> / VCI = <VCI_no.> (call reference <call_reference>) failed; unable to create statistics record.

Meaning: An attempt to activate a virtual channel connection failed because internal resources were unavailable to store statistics.

Action: Reconfigure the virtual channel. If the warning persists, re-enable the ATM driver.

Entity Code/Event Code: 76/36

Severity: Warning

Message: Port <port_no.>: activate virtual channel VPI = <VPI_no.> / VCI = <VCI_no.> (call reference <call_reference>) failed; unable to insert in table.

Meaning: An attempt to activate a virtual channel connection failed because internal table resources were unavailable.

Action: Reconfigure the virtual channel. If the warning persists, re-enable the ATM driver.

Entity Code/Event Code: 76/37

Severity: Warning

Message: Port <port_no.>: deactivate virtual channel VPI = <VPI_no.> / VCI = <VCI_no.> (call reference <call_reference>) failed; no existence.

Meaning: An attempt to deactivate a virtual channel connection failed because the ATM driver never activated the VPI/VCI.

Entity Code/Event Code: 76/38

Severity: Warning

Message: Port <port_no.>: deactivate virtual channel VPI = <VPI_no.> / VCI = <VCI_no.> (call reference <call_reference>) failed; unable to delete from table.

Meaning: An attempt to deactivate a virtual channel connection failed because the ATM driver could not delete from the internal table.

Entity Code/Event Code: 76/39

Severity: Warning

Message: Port <port_no.>: unable to define output Peak Cell Rate (PCR) with value <PCR_value>.

Meaning: The ATM driver was unable to generate the overall PCR from the specified value.

Action: Reconfigure the overall PCR with a valid value.

Entity Code/Event Code: 76/40

Severity: Warning

Message: Port <port_no.>: unable to define output Sustainable Cell Rate (SCR) with value <SCR_value>.

Meaning: The ATM driver was unable to generate the overall SCR from the specified value.

Action: Reconfigure the overall SCR with a valid value.

Entity Code/Event Code: 76/41

Severity: Warning

Message: Port <port_no.>: unable to define output Maximum Burst Size (MBS) with value <MBS_value>.

Meaning: The ATM driver was unable to generate the overall MBS from the specified value.

Action: Reconfigure the overall MBS with a valid value.

Entity Code/Event Code: 76/42

Severity: Warning

Message: Port <port_no.>: unable to define rate queue <rate_queue> with value <rate_queue_value>.

Meaning: The ATM driver was unable to generate an internal rate queue from the specified value.

Action: Reconfigure the virtual channel that failed as a result of this event.

Entity Code/Event Code: 76/43

Severity: Warning

Message: Port <port_no.>: unable to perform operation – invalid queue number (<queue_no.>).

Meaning: The ATM driver was unable to perform an internal operation because of an invalid queue number.

Action: If this warning persists, re-enable the ATM driver.

Info Event

Entity Code/Event Code: 76/03

Severity: Info

Message: Service initializing.

Meaning: The ATMALC control entity is active and preparing to provide driver services to configured ports.

Entity Code/Event Code: 76/04

Severity: Info

Message: Port <port_no.>: service available.

Meaning: The ATMALC driver has completed initialization and is ready to perform driver services for Port <port_no.>.

Entity Code/Event Code: 76/05

Severity: Info

Message: Port <port_no.>: service withdrawn.

Meaning: The ATMALC driver has terminated driver services for Port <port_no.>.

Action: Re-enable the ATMALC driver if Port <port_no.> requires driver services.

Entity Code/Event Code: 76/06

Severity: Info

Message: Port <port_no.>: configuration deleted.

Meaning: The delete attribute in the line record has deleted the ATMALC driver. The driver no longer resides in memory.

Action: Reconfigure the ATMALC driver if Port <port_no.> requires driver services.

Entity Code/Event Code: 76/07

Severity: Info

Message: Port <port_no.>: enabled.

Meaning: The enable attribute in the line record has enabled the ATMALC driver. Diagnostics on the ATM link module passed successfully.

Entity Code/Event Code: 76/08

Severity: Info

Message: Port <port_no.>: disabled.

Meaning: The enable attribute in the line record has disabled the ATMALC driver. Both driver components (host and coprocessor) continue to load in system memory.

Action: Re-enable the ATMALC driver if Port <port_no.> requires driver services.

Entity Code/Event Code: 76/09

Severity: Info

Message: Port <port_no.>: transceiver connected.

Meaning: The physical interface (transceiver) received signal detect from a peer entity on the network and connected.

Entity Code/Event Code: 76/10

Severity: Info

Message: Port <port_no.>: data path service available.

Meaning: Data path service is available to protocols because the transceiver connected to the network.

Entity Code/Event Code: 76/11

Severity: Info

Message: Coprocessor image loaded on link module (<bytes> bytes).

Meaning: The ATMALC coprocessor driver successfully downloaded on the link module. The ATMALC driver loads the coprocessor on the link module during driver initialization.

Entity Code/Event Code: 76/12

Severity: Info

Message: Coprocessor initialization complete.

Meaning: The ATMALC coprocessor driver successfully initialized. The ATMALC drivers successfully configured and initialized shared data structures and are ready to provide driver services.

Entity Code/Event Code: 76/13

Severity: Info

Message: Port <port_no.>: SAR device initialization complete.

Meaning: The Segmentation and Reassembly (SAR) device on the link module initialized and configured successfully.

Entity Code/Event Code: 76/14

Severity: Info

Message: Port <port_no.>: framer device initialization complete.

Meaning: The framer device on the link module initialized and configured successfully.

Entity Code/Event Code: 76/15

Severity: Info

Message: Port <port_no.>: virtual channel VPI=<VPI_no.>/VCI=<VCI_no.> (call reference <call_reference>) activated.

Meaning: Resources are allocated and activated for the virtual channel <VPI_no.>/<VCI_no.> with the call reference <call_reference>.

Entity Code/Event Code: 76/16

Severity: Info

Message: Port <port_no.>: virtual channel VPI=<VPI_no.>/VCI=<VCI_no.> (call reference <call_reference>) deactivated.

Meaning: The virtual channel is deactivated.

Action: Re-enable (or reconfigure) the virtual channel.

Entity Code/Event Code: 76/17

Severity: Info

Message: Port <port_no.>: 100 Mb/s multimode physical interface.

Meaning: The ATM physical interface is 100 Mb/s multimode fiber.

Entity Code/Event Code: 76/18

Severity: Info

Message: Port <port_no.>: SONET/SDH STS-3c OC-3 multimode physical interface.

Meaning: The ATM physical interface is SONET/SDH, STS-3c, OC-3 multimode fiber, 155.52 Mb/s.

Entity Code/Event Code: 76/19

Severity: Info

Message: Port <port_no.>: SONET/SDH STS-3c OC-3 single mode physical interface.

Meaning: The ATM physical interface is SONET/SDH, STS-3c, OC-3 single mode fiber, 155.52 Mb/s.

BGP Events

The Border Gateway Protocol service, referred to as the BGP entity, issues the following event messages. The entity code assigned to BGP events is 52.

Fault Event

Entity Code/Event Code: 52/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The BGP protocol experienced a fatal error and is restarting automatically. The BGP protocol will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if the BGP protocol fails to restart.

Warning Events

Entity Code/Event Code: 52/2

Severity: Warning

Message: Invalid Create/Delete parameter configured in wfBgp: <no.>

Meaning: The value of the Create/Delete parameter in wfBgp is out of range. It should be set to either 1 (created) or 2 (deleted).

Action: Set this parameter to an appropriate value.

Entity Code/Event Code: 52/3

Severity: Warning

Message: Invalid Enable/Disable parameter configured in wfBgp: <no.>

Meaning: The value of the Enable/Disable parameter in wfBgp is out of range. It should be set to either 1 (enabled) or 2 (disabled).

Action: Set this parameter to an appropriate value.

Entity Code/Event Code: 52/4

Severity: Warning

Message: Invalid BGP identifier configured in wfBgp: <IP_address>

Meaning: The BGP identifier for the BGP router identified by <IP_address> is invalid. The IP address may be syntactically wrong, of the wrong address class, or nonexistent on the router.

Action: Reconfigure the BGP identifier to be a valid IP address.

Entity Code/Event Code: 52/5

Severity: Warning

Message: Invalid BGP local AS number configured in wfBgp: <AS_no.>

Meaning: The autonomous system <AS_no.> for the local BGP router is not within the acceptable AS number range of 1 to 65535.

Action: Reconfigure the AS number on the local BGP router to be a legal value.

Entity Code/Event Code: 52/6

Severity: Warning

Message: Invalid EBGp debug parameter configured in wfBgp: <no.>

Meaning: The value of the EBGp Debug parameter in wfBgp is out of range. It should be set to either 1 (enabled) or 2 (disabled).

Action: Set this parameter to an appropriate value.

Entity Code/Event Code: 52/7

Severity: Warning

Message: Invalid Intra-AS IBGP Routing parameter configured in wfBgp: <no.>

Meaning: The value of the Intra-AS IBGP Routing parameter in wfBgp is out of range. It should be set to either 1 (enabled) or 2 (disabled).

Action: Set this parameter to an appropriate value.

Entity Code/Event Code: 52/8

Severity: Warning

Message: Invalid Internal Advertisement Timer configured in wfBgp3: <no.>

Meaning: The value of the Internal Advertisement Timer parameter in wfBgp3 is out of range. The acceptable range is greater than zero.

Action: Set this parameter to an appropriate value.

Entity Code/Event Code: 52/9

Severity: Warning

Message: Invalid IBGP From Protocol configured in wfBgp: <value>

Meaning: The value of the From Protocol parameter is invalid. The acceptable values are BGP and All.

Action: Set this parameter to an appropriate value.

Entity Code/Event Code: 52/10

Severity: Warning

Message: Invalid maximum redundant IBGP routes configured in wfBgp: <value>

Meaning: The value of the Max Redundant IBGP Routes parameter is invalid. The acceptable values are 1 through 255.

Action: Set this parameter to an appropriate value.

Entity Code/Event Code: 52/13

Severity: Warning

Message: Invalid Create/Delete parameter configured in wfBgpASWeightEntry: <no.>

Meaning: The value of the Enable/Disable parameter in wfBgpASWeightEntry is out of range. It should be set to either 1 (created) or 2 (deleted).

Action: Set this parameter to an appropriate value.

Entity Code/Event Code: 52/14

Severity: Warning

Message: Invalid Enable/Disable parameter configured in wfBgpASWeightEntry: <no.>

Meaning: The value of the Enable/Disable parameter in wfBgpASWeightEntry is out of range. It should be set to either 1 (enabled) or 2 (disabled).

Action: Set this parameter to an appropriate value.

Entity Code/Event Code: 52/15

Severity: Warning

Message: Invalid class <weight_no.> weight configured for AS <AS_no.> in AS weight table

Meaning: The AS identified by <AS_no.> has a weight value configured that is not within the acceptable AS weight range. The acceptable AS weight range is 1 to 15, plus the infinity value of 16.

Action: Reconfigure the AS weight value for the AS to be within the acceptable range.

Entity Code/Event Code: 52/16

Severity: Warning

Message: Invalid AS number <AS_no.> configured in AS weight table

Meaning: An AS, identified by <AS_no.>, in the AS weight table is out of range. The acceptable AS number range is 1 to 65535.

Action: Reconfigure the AS number value for this AS Weight table entry to be within the acceptable range.

Entity Code/Event Code: 52/17

Severity: Warning

Message: Invalid Create/Delete parameter configured in wfBgpPeerEntry: <no.>

Meaning: The value of the Create/Delete parameter in wfBgpPeerEntry is out of range. It should be set to either 1 (created) or 2 (deleted).

Action: Set this parameter to an appropriate value.

Entity Code/Event Code: 52/18

Severity: Warning

Message: Invalid Enable/Disable parameter configured in wfBgpPeerEntry: <no.>

Meaning: The value of the Enable/Disable parameter in wfBgpPeerEntry is out of range. It should be set to either 1 (enabled) or 2 (disabled).

Action: Set this parameter to the appropriate value.

Entity Code/Event Code: 52/19

Severity: Warning

Message: Invalid Local IP address configured in wfBgpPeerEntry: <IP_address>

Meaning: The IP address <IP_address> of the Local peer is invalid. It may be syntactically wrong, of the wrong address class, or nonexistent on the router.

Action: Reconfigure the local IP address to be a valid IP address.

Entity Code/Event Code: 52/20

Severity: Warning

Message: Invalid Remote IP address configured in wfBgpPeerEntry: <IP_address>

Meaning: The IP address <IP_address> of the remote peer on this BGP peer connection is invalid. It may be syntactically wrong, of the wrong address class, or nonexistent on the router.

Action: Reconfigure the remote IP address to be a valid IP address.

Entity Code/Event Code: 52/21

Severity: Warning

Message: Local and Remote IP addresses on different subnets in wfBgpPeerEntry: Local: <IP_address_1> Remote <IP_address_2>

Meaning: The local peer identified by <IP_address_1> and the remote peer identified by <IP_address_2> are not on the same subnet.

Action: Check each peer's IP address and reconfigure as necessary.

Entity Code/Event Code: 52/22

Severity: Warning

Message: Invalid Keep Alive Timer configured in wfBgpPeerEntry: <sec>

Meaning: The value of the Keep Alive Timer for this connection is not within the valid range (greater than 0). The Keep Alive Timer specifies how often Keep Alive messages will be sent across this peer connection.

Action: Reconfigure the parameter with a valid number of seconds.

Entity Code/Event Code: 52/23

Severity: Warning

Message: Invalid AS origination interval configured in wfBgpPeerEntry: <sec>

Meaning: The value for the minimum AS origination interval timer is not within the valid range (greater than 0).

Action: Reconfigure the parameter with the valid number of seconds.

Entity Code/Event Code: 52/24

Severity: Warning

Message: Invalid External Advertisement Timer configured in wfBgpPeerEntry: <sec>

Meaning: The value of the External Advertisement Timer for this connection is not within the valid range (greater than 0). The External Advertisement Timer dictates the maximum amount of time allowed between EBGp updates.

Action: Reconfigure the External Advertisement Timer for this connection.

Entity Code/Event Code: 52/25

Severity: Warning

Message: Invalid minimum BGP version configured in wfBgpPeerEntry: <BGP_version_no.>

Meaning: The value of the minimum BGP version parameter in wfBgpPeerEntry is out of range. It should be set to 3 (BGP version 3) or 4 (BGP version 4).

Action: Set this parameter to 3 or 4.

Entity Code/Event Code: 52/26

Severity: Warning

Message: Invalid maximum BGP version configured in wfBgpPeerEntry: <BGP_version_no.>

Meaning: The value of the maximum BGP version parameter in wfBgpPeerEntry is out of range. It should be set to 3 (BGP version 3) or 4 (BGP version 4).

Action: Set this parameter to 3 or 4.

Entity Code/Event Code: 5/27

Severity: Warning

Message: Invalid local AS configured in wfBgpPeerEntry: <AS_no.>

Meaning: The local AS, identified by <AS_no.>, has an invalid AS number configured; it is out of range. The acceptable AS number range is 1 to 65535.

Action: Reconfigure the local AS to be within the valid range.

Entity Code/Event Code: 52/28

Severity: Warning

Message: Invalid remote AS configured in wfBgpPeerEntry: <AS_no.>

Meaning: The remote AS, identified by <AS_no.>, has an invalid AS number configured; it is out of range. The acceptable AS number range is 1 to 65535.

Action: Reconfigure the remote AS to be within the valid range.

Entity Code/Event Code: 52/29

Severity: Warning

Message: Invalid maximum update size configured in wfBgpPeerEntry: <bytes>

Meaning: The maximum size of Update messages is an invalid number of bytes.

Action: Reconfigure the parameter with the valid number of bytes.

Entity Code/Event Code: 52/30

Severity: Warning

Message: Invalid route echoing switch parameter configured in wfBgpPeerEntry: *<enable/disable>*

Meaning: The Route Echo Switch parameter does not contain either of the valid values (Enabled or Disabled).

Action: Reconfigure the parameter with a valid switch value.

Entity Code/Event Code: 52/31

Severity: Warning

Message: Invalid discard duplicate route switch parameter in wfBgpPeerEntry: *<value>*

Meaning: The Discard Duplicate Route Switch parameter is set to a value other than Enabled or Disabled.

Action: Reconfigure the parameter with the appropriate value.

Entity Code/Event Code: 52/34

Severity: Warning

Message: Connection *<IP_address>* — *<IP_address>*: Message Header Error, Connection Not Synchronized

Meaning: The BGP peer connection identified by *<IP_address>* — *<IP_address>* detected a Message Header Error with the subcode Connection Not Synchronized.

Action: If this occurs regularly, you must use a line trace to determine whether the peer is sending erroneous data.

Entity Code/Event Code: 52/35

Severity: Warning

Message: Connection *<IP_address>* — *<IP_address>*: Message Header Error, Bad Message Length

Meaning: The BGP peer connection identified by *<IP_address>* — *<IP_address>* detected a Message Header Error with the subcode Bad Message Length.

Action: If this occurs regularly, you must use a line trace to determine whether the peer is sending erroneous data.

Entity Code/Event Code: **52/36**

Severity: Warning

Message: Connection <IP_address> — <IP_address>: Message Header Error, Bad Message Type

Meaning: The BGP peer connection identified by <IP_address> — <IP_address> detected a Message Header Error with the subcode Bad Message Type.

Action: If this occurs regularly, you must use a line trace to determine whether the peer is sending erroneous data.

Entity Code/Event Code: **52/37**

Severity: Warning

Message: Connection <IP_address> — <IP_address>: OPEN Message Error, Unsupported Version Number

Meaning: The BGP peer connection identified by <IP_address> — <IP_address> detected an Open Message Error with the subcode Unsupported Version Number.

Action: If the connection comes up after this event occurs, version negotiation occurred between the BGP peers and there is no problem. If the connection does not come up, check to see that the remote peer is running BGP-3.

Entity Code/Event Code: **52/38**

Severity: Warning

Message: Connection <IP_address> — <IP_address>: OPEN Message Error, Bad Peer AS

Meaning: The BGP peer connection identified by <IP_address> — <IP_address> detected an Open Message Error with the subcode Bad Peer AS.

Action: Make sure the Remote AS number configured for this connection matches the peer router's AS number.

Entity Code/Event Code: **52/39**

Severity: Warning

Message: Connection <IP_address> — <IP_address>: OPEN Message Error, Bad BGP Identifier

Meaning: The BGP peer connection identified by <IP_address> — <IP_address> detected an Open Message Error with the subcode Bad BGP Identifier.

Action: The BGP identifier in the received Open message was malformed. Confirm this using a line trace.

Entity Code/Event Code: 52/40

Severity: Warning

Message: Connection <IP_address> — <IP_address>: OPEN Message Error, Unsupported Authentication Code

Meaning: The BGP peer connection identified by <IP_address> — <IP_address> is experiencing an Open Message Error with the subcode Unsupported Authentication Code.

Action: The peer requested a nondefault authentication scheme. The Wellfleet BGP-3 implementation cannot support any nondefault schemes.

Entity Code/Event Code: 52/41

Severity: Warning

Message: Connection <IP_address> — <IP_address>: OPEN Message Error, Authentication Failure

Meaning: The BGP peer connection identified by <IP_address> — <IP_address> detected an Open Message Error with the subcode Authentication Failure.

Action: This should not occur, because nondefault authentication schemes are not supported.

Entity Code/Event Code: 52/42

Severity: Warning

Message: Connection <IP_address> — <IP_address>: UPDATE Message Error, Malformed Attribute List

Meaning: The BGP peer connection identified by <IP_address> — <IP_address> detected an Update Message Error with the subcode Malformed Attribute List.

Action: If this occurs regularly, you must use a line trace to determine whether the peer is sending erroneous data.

Entity Code/Event Code: 52/43

Severity: Warning

Message: Connection <IP_address> — <IP_address>: UPDATE Message Error, Unrecognized Well-known Attribute

Meaning: The BGP peer connection identified by <IP_address> — <IP_address> detected an Update Message Error with the subcode Unrecognized Well-known Attribute.

Action: If this occurs regularly, you must use a line trace to determine whether the peer is sending erroneous data.

Entity Code/Event Code: 52/44

Severity: Warning

Message: Connection <IP_address> — <IP_address>: UPDATE Message Error, Missing Well-known Attribute

Meaning: The BGP peer connection identified by <IP_address> — <IP_address> detected an Update Message Error with the subcode Missing Well-known Attribute.

Action: If this occurs regularly, you must use a line trace to determine whether the peer is sending erroneous data.

Entity Code/Event Code: 52/45

Severity: Warning

Message: Connection <IP_address> — <IP_address>: UPDATE Message Error, Attribute Flags Error

Meaning: The BGP peer connection identified by <IP_address> — <IP_address> detected an Update Message Error with the subcode Attribute Flags Error.

Action: If this occurs regularly, you must use a line trace to determine whether the peer is sending erroneous data.

Entity Code/Event Code: 52/46

Severity: Warning

Message: Connection <IP_address> — <IP_address>: UPDATE Message Error, Attribute Length Error

Meaning: The BGP peer connection identified by <IP_address> — <IP_address> detected an Update Message Error with the subcode Attribute Length Error.

Action: If this occurs regularly, you must use a line trace to determine whether the peer is sending erroneous data.

Entity Code/Event Code: 52/47

Severity: Warning

Message: Connection <IP_address> — <IP_address>: UPDATE Message Error, Invalid ORIGIN Attribute

Meaning: The BGP peer connection identified by <IP_address> — <IP_address> detected an Update Message Error with the subcode Invalid Origin Attribute.

Action: If this occurs regularly, you must use a line trace to determine whether the peer is sending erroneous data.

Entity Code/Event Code: 52/48

Severity: Warning

Message: Connection <IP_address> — <IP_address>: UPDATE Message Error, AS Routing Loop

Meaning: The BGP peer connection identified by <IP_address> — <IP_address> detected an Update Message Error with the subcode AS Routing Loop.

Action: If this occurs regularly, you must use a line trace to determine whether the peer is sending erroneous data.

Entity Code/Event Code: 52/49

Severity: Warning

Message: Connection <IP_address> — <IP_address>: UPDATE Message Error, Invalid NEXT_HOP Attribute

Meaning: The BGP peer connection identified by <IP_address> — <IP_address> detected an Update Message Error with the subcode Invalid Next Hop Attribute.

Action: If this occurs regularly, you must use a line trace to determine whether the peer is sending erroneous data.

Entity Code/Event Code: 52/50

Severity: Warning

Message: Connection <IP_address> — <IP_address>: UPDATE Message Error, Optional Attribute Error

Meaning: The BGP peer connection identified by <IP_address> — <IP_address> detected an Update Message Error with the subcode Optional Attribute Error.

Action: If this occurs regularly, you must use a line trace to determine whether the peer is sending erroneous data.

Entity Code/Event Code: 52/51

Severity: Warning

Message: Connection <IP_address> — <IP_address>: UPDATE Message Error, Invalid Network Field

Meaning: The BGP peer connection identified by <IP_address> — <IP_address> detected an Update Message Error with the subcode Invalid Network Field.

Action: If this occurs regularly, you must use a line trace to determine whether the peer is sending erroneous data.

Entity Code/Event Code: 52/52

Severity: Warning

Message: Invalid Network <IP_address> Field

Meaning: BGP detected an Update Message Error.

Action: If this occurs regularly, you must use a line trace to determine whether the peer is sending erroneous data.

Entity Code/Event Code: 52/53

Severity: Warning

Message: Invalid Net Prefix Length <value>

Meaning: BGP detected an Update Message Error.

Action: If this occurs regularly, you must use a line trace to determine whether the peer is sending erroneous data.

Entity Code/Event Code: 52/54

Severity: Warning

Message: Connection <IP_address> — <IP_address>: NOTIFICATION Message Error, Invalid Error Code

Meaning: The BGP peer connection identified by <IP_address> — <IP_address> detected a Notification Message Error with the subcode Invalid Error Code.

Action: If this occurs regularly, you must use a line trace to determine whether the peer is sending erroneous data.

Entity Code/Event Code: 52/55

Severity: Warning

Message: Connection <IP_address> — <IP_address>: NOTIFICATION Message Error, Invalid Error Subcode

Meaning: The BGP peer connection identified by <IP_address> — <IP_address> detected a Notification Message Error with the subcode Invalid Error Subcode.

Action: If this occurs regularly, you must use a line trace to determine whether the peer is sending erroneous data.

Entity Code/Event Code: 52/56

Severity: Warning

Message: Connection <IP_address> — <IP_address>: Hold Timer expired

Meaning: The Hold Timer has expired on the BGP peer connection identified by <IP_address> — <IP_address>. The Hold Timer dictates the maximum amount of time allowed between Keepalive messages for the BGP speakers on this connection.

Action: The router will try to re-establish the BGP connection with the peer.

Entity Code/Event Code: 52/57

Severity: Warning

Message: Connection <IP_address> — <IP_address>: Finite State Machine Error

Meaning: A BGP event occurred in an unexpected state.

Action: Save the log; call Bay Networks Help Desk.

Entity Code/Event Code: 52/58

Severity: Warning

Message: Connection <IP_address> — <IP_address>: Cease

Meaning: The connection identified by <IP_address> — <IP_address> is coming down.

Action: The connection was terminated either by local disabling or because a Notification was received. If the connection is locally enabled, it will attempt to re-connect.

Entity Code/Event Code: 52/59

Severity: Warning

Message: Connection <IP_address> — <IP_address>: Hold timers do not match. Local: <value>
Remote: <value> Using: <value>

Meaning: The hold timer values do not match.

Action: Specify the correct values.

Entity Code/Event Code: 52/60

Severity: Warning

Message: Connection <IP_address> — <IP_address>: UPDATE Message Error, Malformed AS Path attribute

Meaning: The AS Path attribute in the Update Message is invalid.

Action: Terminate the connection.

Entity Code/Event Code: 52/61

Severity: Warning

Message: First AS in path must be peer's AS

Meaning: The AS Path attribute in the Update Message is invalid.

Action: Terminate the connection.

Entity Code/Event Code: 52/62

Severity: Warning

Message: Invalid accept rule action *<action>* — assumed IGNORE

Meaning: BGP has detected a policy with an invalid action parameter and is taking the default action of ignoring Update messages that match the policy.

Action: Reconfigure the policy.

Entity Code/Event Code: 52/63

Severity: Warning

Message: Connection *<IP_address>*-*<IP_address>*: NOTIFICATION Message *<message>*
Error code *<value>*, subcode *<value>*

Meaning: BGP has received a Notification Message containing one of the following codes:

Error Code	Associated Error Subcode
Message Header Error (1)	(1) Connection not synchronized (2) Bad Message Length (3) Bad Message Type
Open Message Error (2)	(1) Unsupported version number (2) Bad Peer AS (3) Bad BGP Identifier (4) Unsupported Authentication Code (5) Authentication Failure (6) Unacceptable Hold Time

Error Code	Associated Error Subcode
Update Message Error (3)	(1) Malformed attribute list (2) Unrecognized well-known attribute (3) Missing well-known attribute (4) Attribute flags error (5) Attribute length error (6) Invalid Origin attribute (7) AS routing loop (8) Invalid Next Hop attribute (9) Optional attribute error (10) Invalid Network field (11) Malformed AS_PATH
Hold Timer Expired (4)	No subcodes
Finite State Machine Error (5)	No subcodes
Cease (6)	No subcodes

Action: Take the appropriate action for the error.

Entity Code/Event Code: 52/64

Severity: Warning

Message: BGP internal inconstancy

Meaning: BGP has detected an internal error.

Action: Save the log; call Bay Networks Help Desk.

Entity Code/Event Code: 52/65

Severity: Warning

Message: BGP is down on slots <slots_nos.>

Meaning: The connection on the specified slot is terminated.

Action: Attempt to re-establish the connection.

Info Events

Entity Code/Event Code: 52/59

Severity: Info

Message: BGP initializing.

Meaning: BGP is initializing.

Entity Code/Event Code: 52/60

Severity: Info

Message: BGP terminating.

Meaning: BGP is terminating. It has been either disabled on the slot or deleted from the router.

Entity Code/Event Code: 52/61

Severity: Info

Message: Connection <IP_address> — <IP_address> initializing.

Meaning: The BGP connection identified by <IP_address> — <IP_address> is coming up.

Entity Code/Event Code: 52/62

Severity: Info

Message: Connection <IP_address> — <IP_address> terminated.

Meaning: The BGP connection identified by <IP_address> — <IP_address> has gone down.

BGP3 Events

The Border Gateway Protocol Version 3 service, referred to as the BGP3 entity, issues the following event messages. The entity code assigned to BGP3 events is 53.

Fault Event

Entity Code/Event Code: 53/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The BGP3 protocol experienced a fatal error and is restarting automatically. The BGP3 protocol will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if the BGP3 protocol fails to restart.

Warning Events

Entity Code/Event Code: 53/2

Severity: Warning

Message: Invalid Create/Delete parameter configured in wfBgp3: <no.>

Meaning: The value of the Create/Delete parameter in wfBgp3 is out of range. It should be set to either 1 (created) or 2 (deleted).

Action: Set this parameter to an appropriate value.

Entity Code/Event Code: 53/3

Severity: Warning

Message: Invalid Enable/Disable parameter configured in wfBgp3: <no.>

Meaning: The value of the Enable/Disable parameter in wfBgp3 is out of range. It should be set to either 1 (enabled) or 2 (disabled).

Action: Set this parameter to an appropriate value.

Info Events

Entity Code/Event Code: 53/4

Severity: Info

Message: BGP-3 service initializing

Meaning: The BGP-3 protocol is initializing.

Entity Code/Event Code: 53/5

Severity: Info

Message: BGP-3 service terminating

Meaning: The BGP-3 protocol is terminating.

BGP4 Events

The Border Gateway Protocol Version 4 service, referred to as the BGP4 entity, issues the following event messages. The entity code assigned to BGP4 events is 72.

Fault Event

Entity Code/Event Code: 72/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The BGP-4 protocol experienced a fatal error and is restarting automatically. The BGP3 protocol will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if the BGP-4 protocol fails to restart.

Warning Events

Entity Code/Event Code: 72/2

Severity: Warning

Message: Invalid Create/Delete parameter configured in wfBgp4: <no.>

Meaning: The value of the Create/Delete parameter in wfBgp4 is out of range. It should be set to either 1 (created) or 2 (deleted).

Action: Set this parameter to an appropriate value.

Entity Code/Event Code: 72/3

Severity: Warning

Message: Invalid Enable/Disable parameter configured in wfBgp4: <no.>

Meaning: The value of the Enable/Disable parameter in wfBgp4 is out of range. It should be set to either 1 (enabled) or 2 (disabled).

Action: Set this parameter to an appropriate value.

Info Events

Entity Code/Event Code: 72/4

Severity: Info

Message: BGP-4 service initializing

Meaning: The BGP-4 protocol is initializing.

Entity Code/Event Code: 72/5

Severity: Info

Message: BGP-4 service terminating

Meaning: The BGP-4 protocol is terminating.

BOD Events

The Bandwidth-on-Demand (BOD) service, which consists of Dial Backup and Dial-on-Demand services, issues the following event messages. The entity code assigned to BOD events is 58.

Fault Event

Entity Code/Event Code: 58/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The dial backup service experienced a fatal error and is restarting automatically. Dial backup will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if dial backup fails to restart.

Info Events

Entity Code/Event Code: 58/3

Severity: Info

Message: No backup line available in backup pool <backup_pool_ID> for primary circuit <circuit_no.>

Meaning: The primary circuit has failed and all backup lines specified for use by that primary circuit are in use.

Entity Code/Event Code: 58/4

Severity: Info

Message: Primary circuit <circuit_no.> failed — backup circuit in slave mode.

Meaning: The primary circuit has failed. The backup line is in slave mode and is waiting for the master router to initiate a call.

Entity Code/Event Code: 58/5

Severity: Info

Message: Primary circuit <ircuit_no.> failed — backup circuit in master mode.

Meaning: The primary circuit has failed. The backup line is in master mode and is attempting to establish a connection with the slave router.

Entity Code/Event Code: 58/6

Severity: Info

Message: Backup line <backup_line_ID> is in use by circuit <ircuit_no.>.

Meaning: The backup line is being used by the primary circuit to provide connectivity for the failed primary line.

Entity Code/Event Code: 58/7

Severity: Info

Message: Dial on demand circuit being established on line <line_no.>

Meaning: A Dial-on-Demand circuit is running over the specified line.

Entity Code/Event Code: 58/8

Severity: Info

Message: No line available for dial on demand circuit <ircuit_no.>.

Meaning: All lines in the Dial-on-Demand pool are in use by other circuits.

Entity Code/Event Code: 58/9

Severity: Info

Message: Sync Line <line_no.> available for backup pool <backup_pool_ID>.

Meaning: The backup line is available for use by a primary circuit.

Entity Code/Event Code: 58/10

Severity: Info

Message: Sync Line <line_no.> available for dial on demand pool <pool_ID>.

Meaning: The Dial-on-Demand line is available for use by a Dial-on-Demand circuit.

Entity Code/Event Code: 58/11

Severity: Info

Message: Dial on demand circuit <*circuit_no.*> established — waiting to be activated.

Meaning: The router has created the Dial-on-Demand circuit and is either waiting for data to be received on the circuit or for the “bring up time” to occur so that the circuit can establish a switched service connection.

Entity Code/Event Code: 58/12

Severity: Info

Message: Backup Mode attribute modified on circuit <*circuit_no.*>.

Meaning: The Backup Mode field for the primary circuit has been modified.

Entity Code/Event Code: 58/13

Severity: Info

Message: Backup Pool attribute modified to pool <*pool_ID*> on circuit <*circuit_no.*>.

Meaning: The Backup Pool ID field has been modified.

Entity Code/Event Code: 58/14

Severity: Info

Message: CircuitType attribute modified to Primary for circuit <*circuit_no.*>.

Meaning: The circuit type has been changed to Primary for the specified circuit.

Entity Code/Event Code: 58/15

Severity: Info

Message: CircuitType attribute modified to Dial on demand for circuit <*circuit_no.*>.

Meaning: The circuit type has been changed to Dial-on-Demand for the specified circuit.

Entity Code/Event Code: 58/16

Severity: Info

Message: ForcedDial attribute modified on Dial on demand circuit <*circuit_no.*>.

Meaning: The Force Dial field has been modified for the specified Dial-on-Demand circuit.

Entity Code/Event Code: 58/17

Severity: Info

Message: ForcedDial executed on Dial on demand circuit <ircuit_no.>.

Meaning: The system has forced the modem to dial for the specified Dial-on-Demand circuit.

Entity Code/Event Code: 58/18

Severity: Info

Message: ForcedDial failed on Dial on demand circuit <ircuit_no.>.

Meaning: The system attempted to force the modem to dial for the specified Dial-on-Demand circuit, but the attempt failed.

Entity Code/Event Code: 58/19

Severity: Info

Message: Switched Services bring up time attribute modified on circuit <ircuit_no.>.

Meaning: The Bring Up Hour field or the Bring Up Minute field for a Dial-on-Demand circuit has been modified.

Entity Code/Event Code: 58/20

Severity: Info

Message: Switched Services take down time attribute modified on circuit <ircuit_no.>.

Meaning: The Take Down Hour field for a Dial-on-Demand circuit has been modified.

Entity Code/Event Code: 58/21

Severity: Info

Message: Switched Services inactivity time attribute modified on circuit <ircuit_no.>.

Meaning: The Inactivity Timeout field has been changed for the specified circuit. This message appears for Dial-on-Demand only.

Entity Code/Event Code: 58/23

Severity: Info

Message: Data received for dial on demand circuit <ircuit_no.>.

Meaning: The Dial-on-Demand circuit received data from an upper layer client that is attempting to establish a connection over the demand line.

Entity Code/Event Code: 58/24

Severity: Info

Message: Incoming circuit establish received for circuit <ircuit_no.>

Meaning: The backup or Dial-on-Demand line received an incoming call requesting a dial line connection.

Entity Code/Event Code: 58/48

Severity: Info

Message: Backup start period reached, establishing failed primary circuit <ircuit_no.>

Meaning: The backup start period is beginning and a failed primary circuit is being brought up in backup mode.

Entity Code/Event Code: 58/49

Severity: Info

Message: Primary circuit <ircuit_no.> could not be established, circuit being established in backup mode.

Meaning: The primary circuit has failed and is being brought up in backup mode.

Entity Code/Event Code: 58/50

Severity: Info

Message: Primary circuit <ircuit_no.> in backup mode terminated, end time for backup interval reached.

Meaning: The backup end period of the primary circuit running in backup mode has been reached. The state of the primary circuit has been set to inactive.

Entity Code/Event Code: 58/51

Severity: Info

Message: ForcedTakedown attribute modified on circuit <ircuit_no.>

Meaning: You set the ForcedTakedown attribute to Enable and the circuit is being terminated immediately.

Entity Code/Event Code: 58/52

Severity: Info

Message: Demand pool for circuit <ircuit_no.> modified to demand pool id <demand_pool_ID>.

Meaning: You changed the demand pool ID for the specified circuit.

Trace Events

Entity Code/Event Code: 58/22

Severity: Trace

Message: Switched Services MIB record modified for circuit <ircuit_no.>.

Meaning: The Switched Services MIB record has been modified for the specified circuit.

Entity Code/Event Code: 58/25

Severity: Trace

Message: Backup circuit on slave side activated — killing primary circuit <ircuit_no.>.

Meaning: The backup line received an incoming call for a primary circuit that is still active on the slave side but is not active on the master side. The router is removing the primary circuit from service.

Entity Code/Event Code: 58/26

Severity: Trace

Message: Primary circuit <ircuit_no.> in backup mode killed.

Meaning: The primary circuit has been restored; the router is terminating the use of the backup line.

BOOT Events

The Router Boot Operation service, referred to as the BOOT entity, issues the following event messages. The entity code assigned to BOOT events is 22.

Fault Event

Entity Code/Event Code: 22/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The boot server experienced a fatal error and is restarting automatically. It will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if the router fails to boot.

Warning Events

Entity Code/Event Code: 22/2

Severity: Warning

Message: Slot <slot_no.> bootstrap has incompatible revision <old_release_ID>, upgrade to <new_release_ID>

Meaning: The boot server detected that the boot image is not up to date.

Action: Upgrade the bootstrap PROMS on the slot <slot_no.> to the current release.

Entity Code/Event Code: 22/5

Severity: Warning

Message: Named boot specified, but not for this volume

Meaning: A named boot procedure was initiated on a router that has more than one flash memory card. All slots that have flash cards, but are not involved in the boot procedure, generate this warning.

Entity Code/Event Code: 22/8

Severity: Warning

Message: Error encountered during reading of boot image

Meaning: The boot server cannot read the boot image.

Action: Restore the boot image and try to boot again.

Entity Code/Event Code: 22/9

Severity: Warning

Message: Boot image <image_name> is not in executable format

Meaning: The boot server detects a formatting error in the boot image.

Action: Restore the boot image and try to boot again.

Entity Code/Event Code: 22/11

Severity: Warning

Message: Checksum error encountered in image '<image_name>'

Meaning: The boot server detected a checksum error in the boot image.

Action: Restore the boot image.

Entity Code/Event Code: 22/14

Severity: Warning

Message: Boot client could not acquire a buffer

Meaning: The boot client could not acquire a buffer due to a buffer shortage.

Action: Reset the slot that received this warning.

Entity Code/Event Code: 22/20

Severity: Warning

Message: Checksum failure: expected = <checksum_read>, actual = <checksum_calculated>, retrying...

Meaning: The boot client detected a checksum error and is restarting the boot process with a boot server. The slot that produced this warning will become a boot client, and will boot itself after receiving an image from a boot server on another slot.

Entity Code/Event Code: 22/22

Severity: Warning

Message: Client received unexpected opcode *<operation_code>*, expected *<operation_code>*

Meaning: The boot client received an unexpected response from the boot server during the boot process. The boot client ignores the response and the boot process continues.

Entity Code/Event Code: 22/23

Severity: Warning

Message: Server received unexpected opcode *<operation_code>*, expected *<operation_code>*

Meaning: The boot server received an unexpected request from the boot client during the boot process. The boot server ignores the request and the boot process continues.

Entity Code/Event Code: 22/24

Severity: Warning

Message: Decompressor encountered a bad compressed image checksum.

Meaning: The boot server detected an image checksum error before decompressing a compressed image. The slot that generated this warning will become a boot client and boot itself after receiving an image from a boot server on another slot.

Entity Code/Event Code: 22/25

Severity: Warning

Message: Decompressor encountered a bad uncompressed image checksum.

Meaning: The boot server detected an image checksum error after decompressing a compressed image. The slot that generated this warning will become a boot client and boot itself after receiving an image from a boot server on another slot.

Entity Code/Event Code: 22/26

Severity: Warning

Message: Boot service to slot *<slot_no.>* failed, status *<error_code>*.

Meaning: During the boot service process on a multi-slot VME platform (LN or CN), there has been an error, which terminated the boot service before it completed successfully.

Action: Reset the slot number that failed to boot. This initiates the boot service process for that slot.

Entity Code/Event Code: 22/27

Severity: Warning

Message: Boot image <image_name> does not support platform type (file_key, router_key).

Meaning: You are trying to run a boot image that is not intended for your router. For example, you are trying to run a BLN image on an AN.

Action: Contact your network administrator.

BOOTP Events

The Bootstrap Protocol service, referred to as the BOOTP entity, issues the following event messages. The entity code assigned to BOOTP events is 59.

Fault Events

Entity Code/Event Code: 59/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The BOOTP relay agent experienced a fatal error and is restarting automatically. BOOTP will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if BOOTP fails to restart.

Entity Code/Event Code: 59/8

Severity: Fault

Message: System error, service attempting restart.

Meaning: During a network boot, a system error occurred from which the BOOTP client could not recover.

Action: The BOOTP client will restart up to five times. Review log messages logged before this event. The log messages preceding this one should give more specific information on why a system error occurred.

Entity Code/Event Code: 59/9

Action: Fault

Message: Could not obtain config file... entering diags

Meaning: During a network boot, the system configuration file could not be obtained from the router's file system or over the network via TFTP.

Action: Verify that the specified configuration file exists on the router's file system or on some other file system (accessible via TFTP) so that the router can obtain the file. After ensuring that the configuration file is accessible to the router, boot the system from diagnostics.

Entity Code/Event Code: 59/10

Severity: Fault

Message: Could not obtain image file... entering diags

Meaning: During a network boot, the system image file could not be obtained from the router's file system or over the network via TFTP.

Action: Verify that the specified image file exists on the router's file system or on some other file system (accessible via TFTP) so that the router can obtain the file. After ensuring that the image file is accessible to the router, boot the system from diagnostics.

Warning Events

Entity Code/Event Code: 59/2

Severity: Warning

Message: Dropping BOOTREPLYs due to resource constraints.

Meaning: The router cannot accept BOOTREPLY packets, because the router has run out of memory.

Entity Code/Event Code: 59/13

Severity: Warning

Message: Couldn't create isap for cct <*circuit_no*>

Meaning: During a network boot, a BOOTP client could not register with the Data Path service creating the ISAP.

Action: The BOOTP client will be restarted. There is no action to take.

Entity Code/Event Code: 59/14

Severity: Warning

Message: Could not obtain *<filename>* from file system

Meaning: During a network boot, the system could not retrieve either the configuration file or the image file from the router's file system, because there is no file system present on the router. This message is generated if you specify that the file should be obtained locally and no file system is present. This message is also generated if the BOOTP client fails to obtain the file over the network and then attempts to obtain the file locally when there is no file system present on the router.

The BOOTP client will attempt to obtain the file over the network if it has not already done so. If no file can be obtained, the router will enter diagnostics.

Action: Ensure that a file system is present and boot the router.

Entity Code/Event Code: 59/15

Severity: Warning

Message: Could not obtain *<filename>* over network

Meaning: During a network boot, the system attempted to obtain either the image or configuration file over the network via TFTP, but did not have a pathname to use. That is, for some reason, the system never obtained a pathname from the BOOTP server.

This message may also be generated because of truncation, for the following reasons.

- ❑ Configuration filenames. The Vend field in the BOOTP packet provides 64 bytes of storage; however, configuration filenames are truncated at 50 bytes.
- ❑ Image filenames. The File field in a BOOTP packet provides 128 bytes of storage; however, the pathname to the image ("hd" in the *bootptab* file) is truncated at 79 characters.

The reason for truncation is either related to storage limits in the BOOTP server code, or overhead bytes in the BOOTP reply packet that take up space. If the act of truncation creates an invalid UNIX pathname or filename, the BOOTP reply packet sent back to the AN will include a NULL where the valid configuration/image name should be.

The BOOTP client will attempt to retrieve the image or configuration file from the local file system. If it cannot obtain a file, the router will begin diagnostics.

Action: Verify that the BOOTP server is providing the proper information to the router (check */etc/bootptab*) and boot the router.

Entity Code/Event Code: 59/16

Severity: Warning

Message: Could not load <file_type> <filename> from local file system

Meaning: During a network boot, the BOOTP client could not read either the image or configuration file from the local file system. This could be due to a variety of conditions, including file system corruption, but the most common cause is that the specified file does not exist on the file system. The value of <file_type> is either *config* or *image*. The value of <filename> is the name of the image or configuration file.

The BOOTP client will attempt to obtain the file over the network.

Action: Put a copy of the file on a file system that is not corrupt and boot the system.

Entity Code/Event Code: 59/17

Severity: Warning

Message: Could not load <file_type> <filename> over network

Meaning: During a network boot, the BOOTP client could not obtain either the image or configuration file over the network. More specifically, the TFTP session failed.

The reason for the TFTP failure is unknown to the BOOTP client; however, an attempt will be made to retrieve the file from the local file system. The most common cause of this event is that the file is simply not there. The BOOTP server has supplied a pathname to a file which does not exist; therefore the TFTP failed.

Action: Make sure that the file exists. Other events in the log previous to this one might indicate a more specific reason for the failure.

Entity Code/Event Code: 59/37

Severity: Warning

Message: Configuration error from MIB manager, return code <code_no.>

Meaning: An internal error occurred during configuration of network boot interfaces or protocols.

Action: This configuration may cause the network boot to fail, and the router will then fall back to local boot. There is no action to take.

Entity Code/Event Code: 59/48

Severity: Warning

Message: Could not find DLCI <DLCI_no.> in BOOTP client interface table

Meaning: An EZ-Install request was received on the specified Frame Relay DLCI, but this request cannot be carried out. The upstream router needs to be configured (via the wfBootpClientIntfEntry record or the Site Manager screen for BOOTP Client Interface Table) to allow the incoming DLCI to be mapped to the IP address of the BOOTP client.

Action: Verify that the BOOTP client interface table is configured properly.

Info Events

Entity Code/Event Code: 59/3

Severity: Info

Message: Relay Agent on Interface <IP_address> up.

Meaning: The BOOTP relay agent is enabled on the specified interface.

Entity Code/Event Code: 59/4

Severity: Info

Message: Relay Agent on Interface <IP_address> down.

Meaning: The BOOTP relay agent is disabled on the specified interface.

Entity Code/Event Code: 59/5

Severity: Info

Message: BOOTREQUEST received on Interface <IP_address> dropped — hop count exceeded.

Meaning: The value in the Hops field of the BOOTREQUEST packet is greater than that expected by the router. The router drops the packet.

Entity Code/Event Code: 59/6

Severity: Info

Message: BOOTREQUEST received on Interface <IP_address> dropped — seconds field too small.

Meaning: The value in the Seconds field of the BOOTREQUEST packet is smaller than that expected by the router. The router drops the packet.

Entity Code/Event Code: 59/19

Severity: Info

Message: Booting image <filename> obtained from network

Meaning: The router has obtained the image file specified by <filename> via the network and is using it to boot the system.

Entity Code/Event Code: 59/20

Severity: Info

Message: Booting image <filename> obtained from file system

Meaning: The router has obtained the image file specified by <filename> from its local file system and is using it to boot the system.

Entity Code/Event Code: 59/21

Severity: Info

Message: Using config <filename> obtained from network

Meaning: The router has obtained the configuration file specified by <filename> via the network and is using it.

Entity Code/Event Code: 59/22

Severity: Info

Message: Using config <filename> obtained from file system

Meaning: The router has obtained the configuration file specified by <filename> from its local file system and is using it.

CSMA/CD Events

The Carrier Sense Multiple Access with Collision Detection service, referred to as the CSMA/CD entity, issues the following event messages. The entity code assigned to CSMA/CD events is 9.

Fault Event

Entity Code/Event Code: 9/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The CSMA/CD driver experienced a fatal error and is restarting automatically. CSMA/CD will attempt to restart up to five times.

Action: Verify that the configuration is correct. Determine whether the FAIL LED on each link module is off. Call the Bay Networks Help Desk if CSMA/CD fails to restart.

Warning Events

Entity Code/Event Code: 9/2

Severity: Warning

Message: Connector XCVR <no.> carrier lost.

Meaning: The CSMA/CD entity detected the loss of the carrier signal on the connector identified by XCVR <no.>.

Action: Verify transceiver and physical medium integrity.

Entity Code/Event Code: 9/3

Severity: Warning

Message: Connector XCVR <no.> excessive collisions.

Meaning: The CSMA/CD entity dropped a frame after it detected collisions on 16 successive transmission attempts over the connector identified by XCVR <no.>.

Action: If message occurs frequently, investigate and remedy the cause(s) of LAN congestion.

Entity Code/Event Code: 9/4

Severity: Warning

Message: Connector XCVR <no.> transmitter time-out.

Meaning: The CSMA/CD connector identified by XCVR <no.> timed out on transmission after a user-programmable time.

Entity Code/Event Code: 9/5

Severity: Warning

Message: Connector XCVR <no.> diagnostic failed.

Meaning: The connector identified by XCVR <no.> failed powerup diagnostics and is disabled.

Action: Verify the integrity of the link module.

Entity Code/Event Code: 9/6

Severity: Warning

Message: Connector XCVR <no.> out of range.

Meaning: The CSMA/CD connector XCVR <no.> is invalid and will be ignored.

Action: Modify the configuration record to accurately describe the link module installed in the specified slot.

Entity Code/Event Code: 9/7

Severity: Warning

Message: Connector XCVR <no.> no SQE.

Meaning: The CSMA/CD entity detected a loss of the Signal Quality Error (SQE or Heartbeat) signal over connector XCVR <no.>.

Action: Verify transceiver integrity.

Entity Code/Event Code: 9/8

Severity: Warning

Message: Connector XCVR <no.> not verified with diagnostic.

Meaning: Powerup diagnostics did not run on this interface and did not verify the CSMA/CD connector identified by XCVR <no.>.

Action: Rerun powerup diagnostics if you wish to verify XCVR <no.> integrity.

Entity Code/Event Code: 9/20

Severity: Warning

Message: Connector XCVR <no.> failed to enable hardware filter.

Meaning: The CSMA/CD connector identified by XCVR <no.> failed to enable hardware filtering. The reason for failing is internal to the entities coordinating the operation of the hardware filter function.

Action: Try to enable the hardware filtering function again later, perhaps when the system resources are available to satisfy the request. If this situation persists, view the HWF events in the system log to determine the cause of the failure.

Entity Code/Event Code: 9/21

Severity: Warning

Message: Connector XCVR <no.> hardware filter driver not accessible for <action> operation.

Meaning: The hardware filter driver entity is unavailable to satisfy the operation specified by <action>. The <action> is either Enable or Disable.

Action: Configure the hardware filter driver on the slot upon which hardware filtering is desired.

Entity Code/Event Code: 9/23

Severity: Warning

Message: Connector XCVR <no.>, gate id 0x<no.> could not get a buffer.

Meaning: This interface did not come up, because a buffer was not available to send a message.

Action: None

Entity Code/Event Code: 9/24

Severity: Warning

Message: Connector XCVR <no.>, gate id 0x<no.>, encountered an RPC timeout.

Meaning: This interface did not come up, because an RPC timeout occurred while sending a message to the module driver.

Action: None

Entity Code/Event Code: 9/25

Severity: Warning

Message: Connector XCVR <no.> aborting init. No Net Module Present in Module location <no.>.

Meaning: Either the network module in this location is missing or the configuration is incorrect.

Action: Insert the missing network module or correct the configuration.

Entity Code/Event Code: 9/26

Severity: Warning

Message: Connector XCVR <no.> aborting init. Wrong Net Module type in Module location <no.>.

Meaning: Either the type of network module in this location or the configuration is incorrect.

Action: Insert the correct type of network module or correct the configuration.

Entity Code/Event Code: 9/27

Severity: Warning

Message: Connector XCVR <no.> aborting init. Net Module <no.> diag failed (status=0x<status_code>).

Meaning: The net module identified by Net Module <no.> has failed. The status code indicates the type of failure.

Action: Replace the network module as soon as possible. If you do not have a spare network module now, but you have a spare connector on the existing network module:

- Switch the cable associated with the failed circuit to the spare connector.
 - Configure a new, identical circuit.
 - Delete the failed circuit from the configuration.
-

Using the spare connector is a temporary measure. When you return the network module to Bay Networks, be sure to report the `<status_code>` and the connector associated with the failure.

Info Events

Entity Code/Event Code: 9/9

Severity: Info

Message: Service initializing.

Meaning: CSMA/CD is initializing.

Entity Code/Event Code: 9/10

Severity: Info

Message: Connector XCVR `<no.>` disabled.

Meaning: The CSMA/CD connector identified by XCVR `<no.>` is disabled.

Entity Code/Event Code: 9/11

Severity: Info

Message: Connector XCVR `<no.>` enabled.

Meaning: The CSMA/CD connector identified by XCVR `<no.>` is enabled.

Entity Code/Event Code: 9/12

Severity: Info

Message: Connector XCVR `<no.>` configuration deleted.

Meaning: The CSMA/CD connector identified by XCVR `<no.>` was removed from the configuration.

Entity Code/Event Code: 9/13

Severity: Info

Message: Connector XCVR `<no.>` providing LLC1 service.

Meaning: The CSMA/CD connector identified by XCVR `<no.>` is enabled and providing LLC1 (datagram) service.

Entity Code/Event Code: 9/14

Severity: Info

Message: Connector XCVR <no.> LLC1 service withdrawn.

Meaning: The CSMA/CD connector identified by XCVR <no.> is not providing LLC1 service.

Entity Code/Event Code: 9/19

Severity: Info

Message: Connector XCVR <no.> hardware filter enabled.

Meaning: Hardware filtering is enabled on the CSMA/CD connector identified by XCVR <no.>.

Entity Code/Event Code: 9/22

Severity: Info

Message: Connector XCVR <no.> fuse blown.

Meaning: The CSMA/CD connector identified by XCVR <no.> has a blown fuse. The fuse that powers the transceiver associated with XCVR <no.> is not operational.

Action: Replace the fuse.

Data Compression Events

The data compression service, referred to as the compression entity, issues the following event messages. The entity code assigned to compression events is 84.

Fault Event

Entity Code/Event Code: 84/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The router experienced a fatal error and is restarting automatically. The router will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call the Bay Networks Help Desk if the router fails to restart.

Warning Events

Entity Code/Event Code: 84/2

Severity: Warning

Message: Unable to allocate WCP VC. Maximum number of VCs reached.

Meaning: The router cannot add another virtual circuit; it is already supporting the maximum number of logical connections possible.

Entity Code/Event Code: 84/3

Severity: Warning

Message: Maximum number of wfWcpCircuitEntry reached. Ignoring entry.

Meaning: The router cannot add another circuit; it is already supporting the maximum number of circuits possible.

Entity Code/Event Code: 84/4

Severity: Warning

Message: Invalid compression mode. Using default value.

Meaning: Compression mode set using Technician Interface is an invalid value. Compression is enabled using the default value, Continuous Packet, instead.

Action: If you want to use Packet by Packet, set the Compression Mode parameter using either Technician Interface or Site Manager.

Note: This message should not appear if you have configured compression using Site Manager, because Site Manager allows only one of two choices: Continuous Packet or Packet by Packet.

Entity Code/Event Code: 84/5

Severity: Warning

Message: Invalid history size. Using default value.

Meaning: History size set using the Technician Interface is an invalid value. Compression is enabled using the default value, 32 KB, instead.

Action: None required, unless you want the history size to be 8 KB. If you want a history size of 8 KB, set the History Size parameter using either Technician Interface or Site Manager.

Note: This message should not appear if you have configured compression using Site Manager, because Site Manager allows only one of two choices: 8 KB and 32 KB.

Entity Code/Event Code: **84/6**

Severity: Warning

Message: Invalid buffer size. Using default value.

Meaning: Buffer size set using the Technician Interface is an invalid value. Compression is enabled using the default value, Normal.

Action: If you want to use a buffer size other than Normal, set the Buffer Size line parameter using either Technician Interface or Site Manager.

Note: This message should not appear if you have configured compression using Site Manager, because Site Manager allows only one of the following choices: Very Large | Large | Normal | None.

Entity Code/Event Code: **84/7**

Severity: Warning

Message: Bad decompressor status. Resetting.

Meaning: The decompressor is out of synchronization with the compressor on the other side of the link. The router automatically reestablishes the connection and renegotiates compression.

Info Events

Entity Code/Event Code: **84/8**

Severity: Info

Message: Service initializing.

Meaning: Compression is initializing.

Entity Code/Event Code: **84/9**

Severity: Info

Message: Service is up.

Meaning: Compression is running.

Entity Code/Event Code: 84/10

Severity: Info

Message: Attempt to connect VC <ircuit_no.> has timed out.

Meaning: The attempt to establish Virtual Circuit <ircuit_no.> has taken longer than the time allowed. No connection has been made.

DECNET Events

The DECnet IV service, referred to as the DECNET entity, issues the following event messages. The entity code assigned to DECNET events is 4.

Fault Event

Entity Code/Event Code: 4/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: DECnet IV experienced a fatal error and is restarting automatically. DECnet will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if DECnet fails to restart.

Warning Events

Entity Code/Event Code: 4/13

Severity: Warning

Message: Adjacency Down Circuit <ircuit_no.>, Adjacency=<area>.<node>, Out of range

Meaning: The adjacent node whose address is <area>.<node> (previously accessible through the identified circuit) is declared down, because its area or node address has become corrupted and now exceeds the maximum values configured for these parameters.

Action: Verify the address integrity.

Entity Code/Event Code: 4/14

Severity: Warning

Message: Adjacency Down Circuit <ircuit_no.>, Adjacency=<area>.<node>, Checksum error

Meaning: The adjacent node whose address is <area>.<node> (previously accessible through the identified circuit) is declared down, because it transmitted a routing topology packet that contained an erroneous checksum.

Action: Verify the integrity of the adjacent node.

Entity Code/Event Code: 4/16

Severity: Warning

Message: Adjacency Down Circuit <ircuit_no.>, Adjacency=<area>.<node>, Router Table Full

Meaning: The adjacent node whose address is <area>.<node> (previously accessible through the identified circuit) is declared down and deleted from the current adjacent router table. The node is deleted, because the router table contains the maximum number of entries, and DECnet has detected the presence of a new router on the adjacent network. In such an instance, DECnet checks the "priority" (node number) of the newly detected router and, if the priority is greater than that of the lowest-priority node in the router table, drops the lower-priority node and adds the new router to the table.

Action: Consider setting the NBRA value to its maximum value (33).

Entity Code/Event Code: 4/18

Severity: Warning

Message: Adjacency Down Circuit <ircuit_no.>, Adjacency=<area>.<node>, Bad Packet

Meaning: The adjacent node whose address is <area>.<node> (previously accessible through the identified circuit) is declared down, because it transmitted an erroneous packet.

Action: Verify the integrity of the adjacent node.

Entity Code/Event Code: 4/20

Severity: Warning

Message: Adjacency Down Circuit <circuit_no.>, Adjacency=<area>.<node>, Version skew

Meaning: The adjacent node whose address is <area>.<node> (previously accessible through the identified circuit) is determined to be down because of a DECnet version mismatch between the local router and the adjacency.

Action: Reconcile the version mismatch.

Entity Code/Event Code: 4/23

Severity: Warning

Message: Adjacency Rejected Circuit <circuit_no.>, Adjacency=<area>.<node>, Router Table Full

Meaning: DECnet IV has detected a router whose address is <area>.<node> (potentially accessible through the identified circuit). DECnet IV will not establish an adjacency, because its Adjacent Router table is full and the "priority" (node number) of the newly detected router is less than that of the lowest-priority node in the table.

Action: Consider setting the NBRA value to its maximum value (33).

Entity Code/Event Code: 4/24

Severity: Warning

Message: Adjacency Rejected Circuit <circuit_no.>, Adjacency=<area>.<node>, Out of range

Meaning: DECnet IV has detected a router whose address is <area>.<node> (potentially accessible through the identified circuit). DECnet IV will not establish an adjacency, because the newly detected router's area or node address, or both, exceeds the maximum values configured for these parameters.

Action: Verify the address integrity or modify the DECnet configuration record, or both.

Entity Code/Event Code: 4/25

Severity: Warning

Message: Adjacency Rejected Circuit <ircuit_no.>, Adjacency=<area>.<node>, Router Table Full — low priority

Meaning: DECnet IV has detected a router whose address is <area>.<node> (potentially accessible through the identified circuit). DECnet IV will not establish an adjacency, because its Adjacent Router table is filled with higher-priority routers.

Action: Consider setting the NBRA value to its maximum value (33).

Entity Code/Event Code: 4/26

Severity: Warning

Message: Adjacency Rejected Circuit <ircuit_no.>, Adjacency=<area>.<node>, Router Table Full — low node id

Meaning: DECnet IV has detected a router whose address is <area>.<node> (potentially accessible through the identified circuit). DECnet IV will not establish an adjacency, because its Adjacent Router table is filled with higher-priority routers.

Action: Consider setting the NBRA value to its maximum value (33).

Entity Code/Event Code: 4/27

Severity: Warning

Message: Adjacency Rejected Circuit <ircuit_no.>, Adjacency=<area>.<node>, Endnode Table Full

Meaning: DECnet has detected a previously unknown node (potentially accessible through the identified circuit), whose area and node address is <area>.<node>. DECnet will not establish an adjacency, because its Adjacent Endnode table is full.

Action: Consider setting the NBEA value to its maximum value (1023).

Entity Code/Event Code: 4/28

Severity: Warning

Message: Adjacency Rejected Circuit < *circuit_no.* >, Adjacency=< *area* >.< *node* >, Using this node address

Meaning: DECnet IV has detected an “adjacent” node (potentially accessible through the identified circuit) whose address, < *area* >.< *node* >, is identical to DECnet’s address. No adjacency is established.

Action: Establish address integrity or look for loops in the network topology.

Entity Code/Event Code: 4/29

Severity: Warning

Message: Initialization Failed Circuit < *circuit_no.* >, Block size < *no._bytes* > too small

Meaning: An adjacent host (potentially accessible over the indicated circuit) failed to complete initialization because of an insufficient configured block size.

Action: Configure the block size of the adjacent node to match the block size of the router.

Entity Code/Event Code: 4/54

Severity: Warning

Message: Multicast address change not allowed on circuit < *circuit_no.* >

Meaning: The circuit < *circuit_no.* > is not a Frame Relay circuit; thus, statically configuring a multicast address for this circuit is incorrect.

Action: Reconfigure the DECnet circuit and accept the default values for the End Nodes MAC, End Routes MAC, and Area Routes MAC parameters.

Entity Code/Event Code: 4/56

Severity: Warning

Message: Static Adjacency rejected Circuit < *circuit_no.* >, Adjacency=< *area* >.< *node* >, Table Full

Meaning: DECnet IV rejected a static adjacency entry circuit < *circuit_no.* >, Adjacency=< *area* >.< *node* >, because its Static Adjacency table is full.

Entity Code/Event Code: 4/57

Severity: Warning

Message: Static Adjacency rejected Circuit <ircuit_no.>, Adjacency=<area>.<node>

Meaning: DECnet IV rejected static adjacency entry circuit <ircuit_no.>, Adjacency=<area>.<node>.

Info Events

Entity Code/Event Code: 4/2

Severity: Info

Message: Protocol initializing

Meaning: DECnet IV is initializing.

Entity Code/Event Code: 4/3

Severity: Info

Message: Protocol terminating

Meaning: DECnet IV is terminating.

Entity Code/Event Code: 4/4

Severity: Info

Message: Interface <area>.<node> up on circuit <ircuit_no.>

Meaning: The interface whose DECnet address is <area>.<node> has come up on the specified circuit.

Entity Code/Event Code: 4/5

Severity: Info

Message: Interface <area>.<node> down on circuit <ircuit_no.>

Meaning: The interface whose DECnet address is <area>.<node> has gone down on the specified circuit.

Trace Events

Entity Code/Event Code: 4/12

Severity: Trace

Message: Adjacency Up Circuit <circuit_no.>, Adjacency=<area>.<node>

Meaning: The adjacent node whose address is <area>.<node> (accessible through the specified circuit) is up.

Entity Code/Event Code: 4/15

Severity: Trace

Message: Adjacency Down Circuit <circuit_no.>, Adjacency=<area>.<node>, Sync lost

Meaning: The adjacent node whose address is <area>.<node> (previously accessible through the specified circuit) is down because of circuit failure.

Action: Investigate and repair the cause of the circuit failure.

Entity Code/Event Code: 4/17

Severity: Trace

Message: Adjacency Down Circuit <circuit_no.>, Adjacency=<area>.<node>, Dropped

Meaning: The adjacent node whose address is <area>.<node> (previously accessible through the specified circuit) has been dropped, because it transmitted a faulty hello packet.

Entity Code/Event Code: 4/19

Severity: Trace

Message: Adjacency Down Circuit <circuit_no.>, Adjacency=<area>.<node>, Address change

Meaning: The adjacent node whose address is <area>.<node> (previously accessible through the specified circuit) has been declared down because of a type change (that is, from a non-routing to a routing node, or vice versa).

Entity Code/Event Code: 4/21

Severity: Trace

Message: Adjacency Down Circuit <ircuit_no.>, Adjacency=<area>.<node>, Timeout

Meaning: The adjacent node whose address is <area>.<node> (previously accessible through the specified circuit) is down, because the router failed to receive three consecutive hello packets from the adjacency.

Entity Code/Event Code: 4/22

Severity: Trace

Message: Adjacency Down Circuit <ircuit_no.>, Adjacency=<area>.<node>, Encaps gate died

Meaning: The adjacent node whose address is <area>.<node> (previously accessible through the specified circuit) is down, because the router can no longer send traffic over the specified circuit or there is a problem with the specified circuit.

Entity Code/Event Code: 4/30

Severity: Trace

Message: Node Reach Change, Node <area>.<node>, Reachable

Meaning: The previously unreachable node, whose address is <area>.<node>, has become reachable.

Entity Code/Event Code: 4/31

Severity: Trace

Message: Node Reach Change, Node <area>.<node>, Unreachable

Meaning: The previously reachable node, whose address is <area>.<node>, has become unreachable.

Entity Code/Event Code: 4/32

Severity: Trace

Message: Area Reach Change, Area <area>, Reachable

Meaning: The previously unreachable DECnet area has become reachable.

Entity Code/Event Code: 4/33

Severity: Trace

Message: Area Reach Change, Area <area>, Unreachable

Meaning: The previously reachable DECnet area has become unreachable.

Entity Code/Event Code: 4/48

Severity: Trace

Message: DRS Traffic Filter — Rule <filter_rule_no.>, Circuit <circuit_no.> (Drop packet)

Meaning: A DECnet packet has been dropped in accordance with the specified filter rule.

Entity Code/Event Code: 4/49

Severity: Trace

Message: DRS Traffic Filter — Rule <filter_rule_no.>, Circuit <circuit_no.> (Log only)

Meaning: A DECnet packet has been logged in accordance with the specified filter rule.

Entity Code/Event Code: 4/55

Severity: Trace

Message: Static Adjacency Up Circuit <circuit_no.>, Adjacency=<area>.<node>

Meaning: DECnet IV accepted static adjacency entry circuit <circuit_no.>, Adjacency=<area>.<node>.

Dial Services Events

The dial services (also called switched services), which include Dial-on-Demand and Dial Backup, issue the following event messages. The entity code assigned for dial services events is 58.

Some of the event messages that you may see include cause code and meanings. Others include the cause code without the meaning. A list of the most common cause codes and meanings can be found at the back of this section.

Fault Event

Entity Code/Event Code: 58/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The service experienced a fatal error and is restarting automatically.

Action: Verify that the configuration is correct. Call the Bay Networks Help Desk if the service fails to restart.

Warning Event

Entity Code/Event Code: 58/96

Severity: Warning

Message: ISDN unsupported switch type configured on slot <slot_no.>.

Meaning: You have entered an invalid switch type in the Switch Type parameter for the ISDN BRI line.

Action: Enter a switch type from the list of switches that the router supports.

Info Events

Entity Code/Event Code: 58/3

Severity: Info

Message: No backup line available in backup pool <backup_pool_ID> for primary circuit <circuit_no.>.

Meaning: The primary circuit has failed and all backup lines specified for use by that primary circuit are in use or out of service.

Entity Code/Event Code: 58/4

Severity: Info

Message: Primary circuit <ircuit_no.> failed — backup circuit in slave mode.

Meaning: The primary circuit has failed. The backup line is in slave mode and is waiting for the master router to initiate a call.

Entity Code/Event Code: 58/5

Severity: Info

Message: Primary circuit <ircuit_no.> failed — backup circuit in master mode.

Meaning: The primary circuit has failed. The backup line is in master mode and is attempting to establish a connection with the slave router.

Entity Code/Event Code: 58/6

Severity: Info

Message: Backup line <backup_line_ID> is in use by circuit <ircuit_no.>.

Meaning: The primary circuit is using the backup line to provide connectivity for the failed primary line.

Entity Code/Event Code: 58/7

Severity: Info

Message: Dial on demand circuit being established on line <line_no.>.

Meaning: A demand circuit is transmitting data over the specified line.

Entity Code/Event Code: 58/8

Severity: Info

Message: No line available for dial on demand circuit <ircuit_no.>.

Meaning: All lines in the demand pool are in use by other circuits or are not available.

Entity Code/Event Code: 58/9

Severity: Info

Message: Sync Line <line_no.> available for backup pool <backup_pool_ID>.

Meaning: The backup line is available for use.

Entity Code/Event Code: 58/10

Severity: Info

Message: Sync Line <line_no.> available for dial on demand pool <pool_ID>.

Meaning: The demand line in the specified demand pool is available for use by a demand circuit.

Entity Code/Event Code: 58/11

Severity: Info

Message: Dial on demand circuit <circuit_no.> established — waiting to be activated.

Meaning: The router has created the demand circuit. Based on the configuration, the router advertises that the addresses associated with this circuit are available. If the router receives data for this circuit, or the “bring up time” occurs, the router establishes a switched connection to the remote router.

Entity Code/Event Code: 58/12

Severity: Info

Message: Backup Mode attribute modified on circuit <circuit_no.>.

Meaning: You modified the Backup Mode field for the primary circuit. The router at one end of the connection should be set to master, the other should be set to slave.

Entity Code/Event Code: 58/13

Severity: Info

Message: Backup Pool attribute modified to pool <pool_ID> on circuit <circuit_no.>.

Meaning: You modified the Backup Pool ID field for the specified circuit. If the primary circuit fails, the router will use lines in the new pool.

Entity Code/Event Code: 58/14

Severity: Info

Message: CircuitType attribute modified to Primary for circuit <ircuit_no.>.

Meaning: You modified the specified circuit to Primary. If the primary line fails, the router attempts to use a backup circuit.

Entity Code/Event Code: 58/15

Severity: Info

Message: CircuitType attribute modified to Dial on demand for circuit <ircuit_no.>.

Meaning: You changed the circuit type to Dial-on-Demand for the specified circuit.

Entity Code/Event Code: 58/16

Severity: Info

Message: ForcedDial attribute modified on Dial on demand circuit <ircuit_no.>.

Meaning: You changed the Force Dial parameter for the specified demand circuit. If you set this parameter to Enable, the router attempts to establish switched connection to the remote router. If you set it to Disable, the router takes no action.

Entity Code/Event Code: 58/17

Severity: Info

Message: ForcedDial executed on Dial on demand circuit <ircuit_no.>.

Meaning: You forced the router to establish a switched connection with the specified demand circuit.

Entity Code/Event Code: 58/18

Severity: Info

Message: ForcedDial failed on Dial on demand circuit <ircuit_no.>.

Meaning: You forced the router to establish a switched connection for the specified demand circuit, but the forced dial failed.

Entity Code/Event Code: 58/19

Severity: Info

Message: Switched Services bring up time attribute modified on circuit <ircuit_no.>.

Meaning: You modified the Bring Up Hour field or the Bring Up Minute field for a demand circuit. The router tries to establish a switched connection for this circuit at the specified time.

Entity Code/Event Code: 58/20

Severity: Info

Message: Switched Services take down time attribute modified on circuit <ircuit_no.>.

Meaning: You modified the Take Down Hour or Take Down Minute parameter for a demand circuit. The router terminates the switched connection at the takedown time.

Entity Code/Event Code: 58/21

Severity: Info

Message: Switched Services inactivity time attribute modified on circuit <ircuit_no.>.

Meaning: You changed the Inactivity Timeout field for the specified circuit. This message only appears for dial-on-demand. The router terminates the circuit if no data is sent or received for the modified inactivity time.

Entity Code/Event Code: 58/23

Severity: Info

Message: Data received for dial on demand circuit <ircuit_no.>.

Meaning: The demand circuit has data to transmit and is attempting to establish a connection over the demand line.

Entity Code/Event Code: 58/24

Severity: Info

Message: Incoming circuit establish received for circuit <ircuit_no.>.

Meaning: The backup or demand line received an incoming call requesting a dial line connection. Using a PPP identification mechanism, the router determined that the specified circuit should run over this switched connection.

Entity Code/Event Code: 58/48

Severity: Info

Message: Backup start period reached, establishing failed primary circuit <ircuit_no.>.

Meaning: The backup start period is beginning and a failed primary circuit is being brought up in backup mode. If the primary circuit fails between the backup start and end period, the router attempts to establish a switched connection for the failed primary circuit.

Entity Code/Event Code: 58/49

Severity: Info

Message: Primary circuit <ircuit_no.> could not be established, circuit being established in backup mode.

Meaning: After booting the router, the primary circuit has not become active. As a result, the router is bringing up the circuit over a backup line.

Entity Code/Event Code: 58/50

Severity: Info

Message: Primary circuit <ircuit_no.> in backup mode terminated, end time for backup interval reached.

Meaning: The time period for the primary circuit run in backup mode has ended. The state of the primary circuit has been set to inactive. The circuit remains down until the beginning of the new backup time period.

Entity Code/Event Code: 58/51

Severity: Info

Message: ForcedTakedown attribute modified on circuit <ircuit_no.>.

Meaning: You set the ForcedTakedown attribute to Enable and the router terminated the circuit immediately. This action does not prevent the router from re-establishing the circuit.

Entity Code/Event Code: 58/52

Severity: Info

Message: Demand pool for circuit <ircuit_no.> modified to demand pool id <demand_pool_ID>.

Meaning: You changed the demand pool ID for the specified circuit.

Entity Code/Event Code: 58/54

Severity: Info

Message: No data received for demand circuit <ircuit_no.> for the configured inactivity period.

Meaning: There was no data for the router to send over the demand circuit within the time limit of the inactivity period. The router terminates the connection.

Entity Code/Event Code: 58/55

Severity: Info

Message: Demand circuit being brought down due to inactivity.

Meaning: Because there is no data going across the circuit, the router is terminating the connection for this circuit.

Entity Code/Event Code: 58/56

Severity: Info

Message: Demand circuit <ircuit_no.> configuration modified to NOT disconnect due to inactivity.

Meaning: You have changed your demand circuit so that once the router makes the connection, this connection remains active regardless of whether or not there is data to send or receive.

Entity Code/Event Code: 58/57

Severity: Info

Message: Demand Connection Mode modified to <parameter_value> for circuit <ircuit_no.>.

Meaning: You changed the entry in the Connection Mode parameter for the demand circuit.

Entity Code/Event Code: 58/58

Severity: Info

Message: Demand circuit <ircuit_no.> configured to NOT disconnect due to inactivity.

Meaning: You have configured your demand circuit so that once the router makes the connection, this connection remains active regardless of whether or not there is data to send or receive.

Entity Code/Event Code: 58/59

Severity: Info

Message: Line Manager initializing.

Meaning: The Line Manager software is initializing. The Line Manager is the entity that manages the availability of all dial lines.

Entity Code/Event Code: 58/60

Severity: Info

Message: ISDN alerting indication with Call ID <ID_no.> on DSL <ID_no.>.

Meaning: The router received an alerting indication from the switch that it is still processing the specified call.

Entity Code/Event Code: 58/61

Severity: Info

Message: ISDN call proceeding indication with Call ID <ID_no.>, Channel B <channel_no.> on DSL <ID_no.>.

Meaning: The router received an indication that the call is proceeding in response to a call setup for the specified B channel.

Entity Code/Event Code: 58/62

Severity: Info

Message: ISDN call proceeding indication with Call ID <ID_no.> on DSL <ID_no.>.

Meaning: The router received an indication that the call is proceeding in response to a call setup request for the specified B channel.

Entity Code/Event Code: 58/63

Severity: Info

Message: ISDN clear confirm for Call ID <ID_no.> on DSL <ID_no.>.

Meaning: The router received a clear confirm from the network.

Entity Code/Event Code: 58/64

Severity: Info

Message: ISDN clear indication for Call ID <ID_no.> with cause <cause_code><code_meaning> on DSL <ID_no.>.

Meaning: The router received a clear indication from the network for a specified call. The router responds with a clear confirm.

Entity Code/Event Code: 58/65

Severity: Info

Message: ISDN connect indication for Call ID <ID_no.> on DSL <ID_no.>.

Meaning: In response to a call setup request, the router received a connect indication from the network for the specified call.

Entity Code/Event Code: 58/66

Severity: Info

Message: ISDN setup confirm for Call ID <ID_no.> on DSL <ID_no.>.

Meaning: In response to a call setup request, the router received a setup confirmation from the network.

Entity Code/Event Code: 58/67

Severity: Info

Message: ISDN setup confirm for Call ID <ID_no.>, channel B <channel_no.> on DSL <ID_no.>.

Meaning: In response to a call setup request, the router received a setup confirmation for the specified B channel from the network.

Entity Code/Event Code: 58/68

Severity: Info

Message: ISDN setup indication with Call ID <ID_no.>, channel B <channel_no.> on DSL <ID_no.>.

Meaning: The router received an incoming setup from the network for the specified channel.

Entity Code/Event Code: 58/69

Severity: Info

Message: ISDN setup response for Call ID <ID_no.> on DSL <ID_no.>.

Meaning: The router received a setup response from the network. The router did not respond.

Entity Code/Event Code: 58/70

Severity: Info

Message: ISDN register confirm on DSL <ID_no.>.

Meaning: The router received a register confirm message from the network.

Entity Code/Event Code: 58/71

Severity: Info

Message: ISDN disconnect indication for Call ID <ID_no.>with cause
<cause_code><code_meaning> on DSL <ID_no.>.

Meaning: The router received a disconnect indication from the network. It responded with a clear request.

Entity Code/Event Code: 58/72

Severity: Info

Message: ISDN activation indication on DSL <ID_no.>.

Meaning: The router received an activation indication from the network for this digital subscriber loop (DSL).

Entity Code/Event Code: 58/73

Severity: Info

Message: ISDN deactivation indication on DSL <ID_no.>.

Meaning: The router received a disconnect indication from the network for this DSL.

Action: Remove any connections that exist.

Entity Code/Event Code: 58/74

Severity: Info

Message: ISDN alerting request for Call ID <ID_no.> on DSL <ID_no.>.

Meaning: The router sent an alerting request to the network in response to a setup indication.

Entity Code/Event Code: 58/75

Severity: Info

Message: ISDN call proceeding request for Call ID <ID_no.> on DSL <ID_no.>.

Meaning: The router sent a call proceeding request to the network.

Entity Code/Event Code: 58/76

Severity: Info

Message: ISDN clear request for Call ID <ID_no.> on DSL <ID_no.>.

Meaning: The router sent a clear request in response to a disconnect indication.

Entity Code/Event Code: 58/77

Severity: Info

Message: ISDN connect request for Call ID <ID_no.> on DSL <ID_no.>.

Meaning: The router sent a connect request in response to a setup indication from the network.

Entity Code/Event Code: 58/78

Severity: Info

Message: ISDN setup request with Call ID <ID_no.> on DSL <ID_no.>.

Meaning: The router sent a setup request to the network to establish a switched connection.

Entity Code/Event Code: 58/79

Severity: Info

Message: ISDN disconnect request for Call ID <ID_no.> with cause
<cause_code><code_meaning> on DSL <ID_no.>.

Meaning: The router sent a disconnect request to the network to terminate the specified call for the specified cause.

Entity Code/Event Code: 58/80

Severity: Info

Message: ISDN clear response for Call ID <ID_no.> on DSL <ID_no.>.

Meaning: The router sent a clear response upon receiving a clear indication from the network.

Entity Code/Event Code: 58/81

Severity: Info

Message: ISDN host activate request on DSL <ID_no.>.

Meaning: The router received a host activation request from the network.

Entity Code/Event Code: 58/82

Severity: Info

Message: ISDN host deactivate request on DSL <ID_no.>.

Meaning: The router received a host deactivation request from the network.

Action: Remove any connections that exist.

Entity Code/Event Code: 58/83

Severity: Info

Message: ISDN connect confirm indication for Call ID <ID_no.> on DSL <ID_no.>.

Meaning: The router received a connect confirm message form the network.

Entity Code/Event Code: 58/84

Severity: Info

Message: ISDN information indication on DSL <ID_no.>.

Meaning: The router received an information indication from the network.

Entity Code/Event Code: 58/85

Severity: Info

Message: ISDN progress indication on DSL <ID_no.>.

Meaning: The router received a progress indication from the network.

Entity Code/Event Code: 58/86

Severity: Info

Message: ISDN configured for switch type BRI VN3.

Meaning: You have set the Switch Type parameter to BRI VN3 for this particular B channel. The router should therefore be connected to a VN3 switch.

Entity Code/Event Code: 58/87

Severity: Info

Message: ISDN configured for switch type BRI Net 3.

Meaning: You have set the Switch Type parameter to BRI Net 3 for this particular B channel. The router should therefore be connected to a Net 3 switch.

Entity Code/Event Code: 58/88

Severity: Info

Message: ISDN configured for switch type BRI Swissnet.

Meaning: You have set the Switch Type parameter to BRI Swissnet for this particular B channel. The router should therefore be connected to a Swissnet switch.

Entity Code/Event Code: 58/89

Severity: Info

Message: ISDN configured for switch type BRI NTT.

Meaning: You have set the Switch Type parameter to BRI NTT for this particular B channel. The router should therefore be connected to an NTT switch.

Entity Code/Event Code: 58/90

Severity: Info

Message: ISDN configured for switch type BRI KDD.

Meaning: You have set the Switch Type parameter to BRI KDD for this particular B channel. The router should therefore be connected to a KDD switch.

Entity Code/Event Code: 58/91

Severity: Info

Message: Incoming ISDN call with screened calling party number <calling_ID.> being dropped on DSL <ID_no.>.

Meaning: The router identified the calling party based on the calling ID and will not allow the call through. Instead the call has been dropped.

Entity Code/Event Code: 58/92

Severity: Info

Message: No called party number on multipoint DSL <ID_no.>.

Meaning: The router received a setup request on a multipoint line, but no local phone numbers are configured.

Entity Code/Event Code: 58/93

Severity: Info

Message: Called party number does not match local values on DSL <ID_no.>, dropping.

Meaning: You entered the wrong local phone number for this BRI interface. The router refused the incoming call.

Entity Code/Event Code: 58/94

Severity: Info

Message: ISDN Call ID <ID_no.>: received setup from <phone_no.> for <phone_no.>.

Meaning: The router received a setup request from an incoming phone number that is destined for the specified local phone number.

Entity Code/Event Code: 58/95

Severity: Info

Message: ISDN Call ID <ID_no.> sending setup to <phone number> from <phone_no.>.

Meaning: The router sent a setup request for an outgoing phone number from an incoming phone number.

Trace Events

Entity Code/Event Code: 58/22

Severity: Trace

Message: Switched Services MIB record modified for circuit <ircuit_no.>.

Meaning: You have modified the switched services MIB record for the specified circuit.

Entity Code/Event Code: 58/25

Severity: Trace

Message: Backup circuit on slave side activated — killing primary circuit <ircuit_no.>.

Meaning: The backup line received an incoming call for a primary circuit that is still active on the slave side but is not active on the master side. The router is removing the primary circuit from service.

Entity Code/Event Code: 58/26

Severity: Trace

Message: Primary circuit <ircuit_no.> in backup mode killed.

Meaning: The primary circuit has been restored; the router is terminating the use of the backup line.

Entity Code/Event Code: 58/102

Severity: Trace

Message: Circuit <ircuit_no.> connected, data being dequeued.

Meaning: The circuit is active and the router is now sending data across it.

Entity Code/Event Code: 58/103

Severity: Trace

Message: Demand circuit collision on circuit <ircuit_no.>, connection mode is Collision Master. Refusing incoming connection for circuit <ircuit_no.>.

Meaning: Both routers attempted to establish a demand circuit at the same time. Since the connection mode is master, the outgoing call has precedence and the router terminates the incoming call.

Action: Ensure that the Connection Mode parameter of the destination router is set to Slave.

Entity Code/Event Code: 58/104

Severity: Trace

Message: Demand Circuit collision on circuit <*circuit_no.*> with connection mode set to Collision Slave. Refusing outgoing connection for circuit <*circuit_no.*>.

Meaning: Demand collision occurred. The connection mode for the router is slave, so the incoming call from the master has precedence.

Action: Disconnect the outgoing call.

Entity Code/Event Code: 58/105

Severity: Trace

Message: Unknown message type <*hex_value*> received.

Meaning: The router received an unidentified message from the ISDN switch.

Action: Contact the Bay Networks Help Desk for help in identifying the message.

Entity Code/Event Code: 58/107

Severity: Trace

Message: Setup indication on DSL <*ID_no.*> does not contain channel IE, ignoring.

Meaning: A setup message from the ISDN switch arrived without a channel information element (IE). This is a mandatory element for setups from the network to the user.

Action: Alert your ISDN service provider of this situation.

Entity Code/Event Code: 58/108

Severity: Trace

Message: No D channel found for DSL <*ID_no.*>.

Meaning: You have not configured a D channel for this B channel.

Action: Delete the ISDN line and add it again.

This table lists the most common cause codes and their meanings that you may encounter in the event messages. Note that the term *user* usually refers to the router. The term *equipment* or *sending entity* refers to either the router or the network switch. Interpret these terms to best fit your situation.

Cause Code	Meaning
1	<i>Unassigned number.</i> The calling user cannot reach the destination because the number, although in a valid format, is unassigned.
2	<i>No route to specified transit network.</i> The equipment sending this cause does not recognize the specified transit network for this call. Either the transit network does not exist, or it exists but does not serve this network.
6	<i>Channel unacceptable.</i> The sending entity cannot use the specified channel for use in this call.
16	<i>Normal call clearing.</i> The call is being cleared because one of the users involved in the call has requested that it be cleared.
17	<i>User busy.</i> The called user is unable to accept another call, although that user's equipment is compatible with the call.
18	<i>No user responding.</i> The user has not responded to a call establishment message with a connect indication within the prescribed period of time.
21	<i>Call rejected.</i> The equipment does not wish to accept this call, although it could have accepted the call because it is neither busy nor incompatible.
22	<i>Number changed.</i> The caller receives this message when the called party number has changed. The new called party number may be included in the diagnostic field of this message.
27	<i>Destination out of order.</i> The destination the caller indicated cannot be reached because the interface to the destination is not functioning properly.
28	<i>Invalid number format.</i> The called party number is not in a valid format or is incomplete.
29	<i>Facility rejected.</i> The network cannot provide a facility the user requests.
30	<i>Response to STATUS INQUIRY.</i> "Response to STATUS ENQUIRY" appears in a STATUS message that is a response to the receipt of a STATUS ENQUIRY message.

Cause Code	Meaning
31	<i>Normal, unspecified.</i> Reports a normal event only when no other message in the normal class applies.
34	<i>No circuit/channel available.</i> There is no appropriate circuit/channel presently available to handle the call.
38	<i>Network out of order.</i> The network is not functioning correctly, and the condition is likely to last a relatively long period of time; if you immediately re-attempt the call, the call is not likely to succeed.
41	<i>Temporary failure.</i> The network is not functioning correctly, but the condition is unlikely to last a long period of time; you may wish to reattempt the call almost immediately.
42	<i>Switching equipment congestion.</i> The switching equipment is experiencing a high volume of traffic.
43	<i>Access information discarded.</i> The network could not deliver access information to the remote user as requested. Access information includes user-to-user information, low-layer compatibility, high-layer compatibility, or subaddress.
44	<i>Requested circuit/channel not available.</i> The other side of the interface cannot provide the circuit or channel the requesting entity indicated.
50	<i>Requested facility not subscribed.</i> You have not completed the necessary administrative arrangements with the supporting networks for the network to be able to supply the supplementary service you have requested.
58	<i>Bearer capability not presently available.</i> You have requested a bearer capability which is not available at this time.
63	<i>Service or option not available, unspecified.</i> Reports a service or option that is not available only when no other cause in the service-or-option-not-available class applies.
65	<i>Bearer capability not implemented.</i> The equipment sending this message does not support the bearer capability requested.
66	<i>Channel type not implemented.</i> The equipment sending this cause does not support the channel type requested.

Cause Code	Meaning
69	<i>Requested facility not implemented.</i> The equipment sending this message does not support the supplementary service requested.
81	<i>Invalid call reference value.</i> The equipment sending this message has received a message with a call reference that is not currently in use on the user-network interface.
82	<i>Identified channel does not exist.</i> The equipment sending this message has received a request to use a channel not activated on the interface.
88	<i>Incompatible destination.</i> The equipment sending this message has received a request to establish a call which has compatibility attributes that it cannot accommodate.
95	<i>Invalid message, unspecified.</i> Reports an invalid message event only when no other invalid message class applies.
96	<i>Mandatory information element is missing.</i> The equipment sending this cause has received a message that is missing an information element essential to processing the message.
97	<i>Message type non-existent or not implemented.</i> The equipment sending this cause has received a message with a message type it does not recognize; the message type is either not defined or defined but not implemented.
98	<i>Message not compatible with call state or message, type non-existent or not implemented.</i> The equipment sending this cause has received a message, which is not a permissible message to receive while in the call state, or it received a STATUS message indicating an incompatible call state.
99	<i>Information element non-existent or not implemented.</i> The equipment sending this cause has received a message that includes information elements that it does not recognize; the information element identified is either not defined, or it is not implemented. However, the equipment can still process the message.

Cause Code	Meaning
100	<i>Invalid information element contents.</i> The equipment sending this cause has received an information element that it has implemented; however, one or more fields in the information element is coded in such a way that it is invalid for the equipment sending this cause.
101	<i>Message not compatible with call state.</i> A message has been received that is incompatible with the call state.
102	<i>Recovery on timer expiry.</i> A procedure has been initiated by the expiry of a timer in association with Q.931 error handling procedures.
111	<i>Protocol error, unspecified.</i> Reports a protocol error event only when no other cause in the protocol error class applied.
127	<i>Interworking, unspecified.</i> There has been interworking with a network that does not provide causes for actions it takes; therefore, the precise cause for a message being sent cannot be ascertained.

DLS Events

The Data Link Switching (DLSw) service, referred to as the DLS entity, issues the following event messages. The entity code assigned to DLS events is 50.

Fault Event

Entity Code/Event Code: 50/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: DLSw experienced a fatal error and is restarting automatically. DLSw will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if DLSw fails to restart.

Warning Event

Entity Code/Event Code: 50/2
Severity: Warning
Message: No IP address configured for DLSw slot <no.>
Meaning: The slot configured with DLSw has no corresponding IP address.
Action: You must specify the IP address for this DLSw slot.

Info Events

Entity Code/Event Code: 50/3
Severity: Info
Message: Service initializing.
Meaning: DLSw is initializing.

Entity Code/Event Code: 50/4
Severity: Info
Message: Service terminating.
Meaning: DLSw is terminating.

Entity Code/Event Code: 50/5
Severity: Info
Message: Interface up on circuit <no.>
Meaning: A DLSw interface has come up on a circuit.

Entity Code/Event Code: 50/6
Severity: Info
Message: Interface down on circuit <no.>
Meaning: A DLSw interface has gone down on a circuit.

Entity Code/Event Code: 50/7

Severity: Info

Message: DLSw Traffic Filter — Rule <no.> Circuit <no.> (Drop packet).

Meaning: An incoming message PDU matched the pattern defined in the named filter. The action was to drop the packet.

Entity Code/Event Code: 50/8

Severity: Info

Message: DLSw Traffic Filter — Rule <no.> Circuit <no.> (Log only).

Meaning: An incoming message PDU matched the pattern defined in the named filter. The action was only to log the packet.

Entity Code/Event Code: 50/9

Severity: Info

Message: DLSw Traffic Filter — Rule <no.> Circuit <no.>
(Forwarding CUR to <TCP_connection_number>).

Meaning: An incoming message PDU matched the pattern defined in the named filter. The action was only to forward the packet to the designated TCP connection.

Trace Events

Entity Code/Event Code: 50/10

Severity: Trace

Message: TCP connection
<local_IP_address>:<local_port_no.>:<remote_IP_address>:<remote_port_no.> open.

Meaning: A new TCP connection came up.

Entity Code/Event Code: 50/11

Severity: Trace

Message: TCP connection
<local_IP_address>:<local_port_no.>:<remote_IP_address>:<remote_port_no.>
closed.

Meaning: An existing TCP connection went down.

Entity Code/Event Code: 50/12

Severity: Trace

Message: Device <device_address> active on cct <circuit_no.>.

Meaning: The indicated device is active on the circuit named in the message.

Entity Code/Event Code: 50/13

Severity: Trace

Message: Device <device_address> inactive on cct <circuit_no.>.

Meaning: The indicated device is inactive on the circuit named in the message.

Entity Code/Event Code: 50/14

Severity: Trace

Message: Prioritization active on <IP_address>

Meaning: Protocol prioritization is active for the DLSw peer at the indicated IP address.

DMAP Event

The Direct Memory Access Processor service, referred to as the DMAP entity, issues the following event message. The entity code assigned to DMAP events is 39.

Fault Event

Entity Code/Event Code: 39/1

Severity: Fault

Message: System error, attempting restart.

Meaning: DMAP has experienced a fatal error and is attempting to restart.

Action: Call Bay Networks Help Desk if the system fails to restart.

DOS Events

The Disk Operating System entity, referred to as the DOS entity, issues the following event messages. The entity code assigned to DOS events is 28.

Fault Events

Entity Code/Event Code: 28/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: DOS experienced a fatal error and is restarting automatically. DOS will attempt to restart up to five times.

Action: Call Bay Networks Help Desk if DOS fails to restart.

Entity Code/Event Code: 28/2

Severity: Fault

Message: Error — SECTOR NOT FOUND ON GIVEN CHAIN!!

Meaning: DOS experienced an internal error.

Action: Call Bay Networks Help Desk.

Entity Code/Event Code: 28/3

Severity: Fault

Message: Error: s_buffer not released before dos_buf_get
Path: <subdirectory_name/filename>

Meaning: DOS experienced an internal error.

Action: Call Bay Networks Help Desk.

Entity Code/Event Code: 28/4

Severity: Fault

Message: Error: Could not find current buffer on inuse queue
Path: <subdirectory_name/filename>

Meaning: DOS experienced an internal error.

Action: Call Bay Networks Help Desk.

Entity Code/Event Code: 28/5

Severity: Fault

Message: Error: DISK DRIVER FAILURE

Meaning: A DOS disk driver failure has occurred.

Action: Look for a previous entry in the log indicating the reason for failure.

Entity Code/Event Code: 28/6

Severity: Fault

Message: Subdirectory is already in memory

Path: <subdirectory_name>

Meaning: DOS experienced an internal error.

Action: Call Bay Networks Help Desk.

Entity Code/Event Code: 28/7

Severity: Fault

Message: Subdirectory is neither in memory nor is it empty

Path: <subdirectory_name>

Meaning: DOS experienced an internal error.

Action: Call Bay Networks Help Desk.

Entity Code/Event Code: 28/8

Severity: Fault

Message: Error, Can't find given FCB on list to remove

Path: <path_name>

Meaning: DOS experienced an internal error.

Action: Call Bay Networks Help Desk.

Entity Code/Event Code: 28/9

Severity: Fault

Message: Error: (DOS FDB Remove) Could not find FDB

Meaning: DOS experienced an internal error.

Action: Call Bay Networks Help Desk.

Entity Code/Event Code: 28/10

Severity: Fault

Message: Internal error: BOOT_SECTOR & DOS_BOOT_INFO out of sync

Meaning: DOS experienced an internal error.

Action: Call Bay Networks Help Desk.

Info Events

Entity Code/Event Code: 28/11

Severity: Info

Message: Directory <*directory_name*>: Bad FAT entry

Meaning: DOS detected a bad entry in the File Allocation Table on the diskette. DOS may have been writing to the diskette when it was interrupted by a power reset, boot, reset, or hot swap of slot 2. The files on the diskette are corrupt.

Action: Use a PC to reformat the disk. In the future, you can avoid this problem by waiting for the diskette drive LED to go out, entering the Technician Interface **unmount** command, and ensuring that the system does not respond with an error message indicating that a file is in use before you interrupt DOS.

Entity Code/Event Code: 28/12

Severity: Info

Message: FAT chain for file <*filename*> terminates with a 0

Meaning: DOS detected a bad termination in the File Allocation Table chain on the diskette. DOS may have been writing to the diskette when it was interrupted by a power reset, boot, reset, or hot swap of slot 2. The files on the diskette are corrupt.

Action: Use a PC to reformat the disk. In the future, you can avoid this problem by waiting for the diskette drive LED to go out, entering the Technician Interface **unmount** command, and ensuring that the system does not respond with an error message indicating that a file is in use before you interrupt DOS.

Entity Code/Event Code: 28/13

Severity: Info

Message: File <filename>: Missing FAT EOF

Meaning: DOS detected a missing File Allocation Table end-of-file marker. DOS may have been writing to the diskette when it was interrupted by a power reset, boot, reset, or hot swap of slot 2. The files on the diskette are corrupt.

Action: Use a PC to reformat the disk. In the future, you can avoid this problem by waiting for the diskette drive LED to go out, entering the Technician Interface **unmount** command, and ensuring that the system does not respond with an error message indicating that a file is in use before you interrupt DOS.

Entity Code/Event Code: 28/14

Severity: Info

Message: File <filename>: FAT chain intersects another file's

Meaning: DOS detected a sector chain allocated to more than one file. DOS may have been writing to the diskette when it was interrupted by a power reset, boot, reset, or hot swap of slot 2.

Action: Use the check disk (CHKDSK) command on a PC to determine which files are corrupt, and delete those files. In the future, you can avoid this problem by waiting for the diskette drive LED to go out, entering the Technician Interface **unmount** command, and ensuring that the system does not respond with an error message indicating that a file is in use before you interrupt DOS.

Entity Code/Event Code: 28/15

Severity: Info

Message: File <filename>: Wrong number of clusters for file size
Directory file size: <size>, Estimated: <size>

Meaning: DOS detected that the directory entry file size and the actual file size do not match. DOS may have been writing to the diskette when it was interrupted by a power reset, boot, reset or hot swap of slot 2. The directory on the diskette is corrupt.

Action: Use a PC to reformat the disk. In the future, you can avoid this problem by waiting for the diskette drive LED to go out, entering the Technician Interface **unmount** command, and ensuring that the system does not respond with an error message indicating that a file is in use before you interrupt DOS.

Entity Code/Event Code: 28/16

Severity: Info

Message: Could not read subdirectory: <directory_name> status=0x<status_code>

Meaning: DOS detected an internal error.

Action: Call Bay Networks Help Desk and report the event number and status code displayed in the text.

Entity Code/Event Code: 28/17

Severity: Info

Message: DOS_FSCK_SCAN return <error_code> for subdir <directory_name>

Meaning: DOS reported an error on the diskette.

Action: Use the check disk (CHKDSK) command on a PC to diagnose the problem. Reformat the diskette if necessary.

Entity Code/Event Code: 28/18

Severity: Info

Message: Warning: There are still open files on this drive

Meaning: An attempt was made to unmount a disk that has open files.

Action: Wait for the diskette drive LED to go out. Then enter the Technician Interface **unmount a:** command again.**Entity Code/Event Code: 28/19**

Severity: Info

Message: Unallocated cluster <cluster_no.> in use. <error_message>

Meaning: An unallocated cluster is in use. DOS may have been writing to the diskette when it was interrupted by a power reset, boot, reset, or hot swap of slot 2. The directory on the diskette is corrupt.

Action: Use a PC to reformat the disk. In the future, you can avoid this problem by waiting for the diskette drive LED to go out, entering the Technician Interface **unmount** command, and ensuring that the system does not respond with an error message indicating that a file is in use before you interrupt DOS.

Entity Code/Event Code: 28/20

Severity: Info

Message: Allocated cluster <cluster_number> NOT in use. <error_message>

Meaning: An allocated cluster (sector) is not in use.

Action: The router may in some cases be able to recover from this error when mounting the volume. The Technician Interface displays a message indicating success or failure after a recovery attempt. Enter the **unmount a:** and **mount a:** commands to determine whether DOS fixes the error. If the file system comes up clean, the error is fixed. If an error is detected again, use the check disk (CHKDSK) command with the fix (/F) switch on a PC to free the allocated but unused sectors.

DP Events

The Data Path service, referred to as the DP entity, issues the following event messages. The entity code assigned to DP events is 6.

Fault Event

Entity Code/Event Code: 6/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: DP experienced a fatal error and is restarting automatically. DP will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if DP fails to restart.

Warning Events

Entity Code/Event Code: 6/9

Severity: Warning

Message: Mixed media types on Circuit <*circuit_no.*>.

Meaning: There are mixed media types on the specified circuit. This message is a result of a configuration error.

Action: Make sure only one line is configured for a single circuit.

Entity Code/Event Code: 6/10

Severity: Warning

Message: Multiple lines configured on Circuit <*circuit_no.*>, subsequent lines ignored.

Meaning: There are multiple lines configured on the specified circuit, and subsequent lines are being ignored. This message is a result of a configuration error.

Action: Make sure only one line is configured for a single circuit.

Entity Code/Event Code: 6/68

Severity: Warning

Message: Priority Queuing Length Based Filter disabled, cannot use the LBP filter for IP Circuit <*circuit_no.*>.

Meaning: A length-based filter was configured for IP. This is not allowed; therefore the filter was disabled.

Action: Remove this IP filter and specify IP-specific prioritizations.

Entity Code/Event Code: 6/69

Severity: Warning

Message: Invalid priority returned for Circuit <*circuit_no.*>

Meaning: An invalid priority was returned for the specified circuit, probably due to memory corruption or invalid configuration data.

Action: Check your configuration.

Entity Code/Event Code: 6/70

Severity: Warning

Message: Failure to initialize priority queuing.

Meaning: Protocol prioritization cannot be initialized because of a lack of memory resources.

Action: Reboot. If this fails, you may have to disable some other entity.

Entity Code/Event Code: 6/79

Severity: Warning

Message: Percent for Priority Queuing should total 100, defaulting.

Meaning: The percent utilizations you have configured for the high, normal, and low queues do not total 100. System will use defaults of 70 percent for high queue, 20 percent for normal queue, and 10 percent for low queue.

Action: If you do not want to use the defaults, reconfigure the percent utilizations.

Entity Code/Event Code: 6/81

Severity: Warning

Message: Line <slot_no>:<connector_no> not valid for a circuit group.

Meaning: You tried to group the specified line with other lines to make a circuit group, but the specified line is not a valid line type for a circuit group.

Action: Select a different circuit for this connector.

Entity Code/Event Code: 6/82

Severity: Warning

Message: Line <slot_no>:<connector_no> MTU <MTU_value>, not same circuit MTU <MTU_value>, ignoring line.

Meaning: You tried to group a line with a circuit group that had a different Maximum Transmission Unit (MTU) value.

Action: Change the MTU value of the line you are trying to add to match the MTU of the circuit group.

Entity Code/Event Code: 6/92

Severity: Warning

Message: <ircuit_no.>: Multi-Protocol encapsulation is not configured for Bridging.

Meaning: You must configure multi-protocol encapsulation (MPE) for this circuit.

Action: Configure MPE for the ATM interface or circuit.

Info Events**Entity Code/Event Code: 6/2**

Severity: Info

Message: Circuit <ircuit_no.> down.

Meaning: The specified circuit is down.

Entity Code/Event Code: 6/3

Severity: Info

Message: Circuit <ircuit_no.> up.

Meaning: The specified circuit is up.

Entity Code/Event Code: 6/4

Severity: Info

Message: Service initializing.

Meaning: DP is initializing.

Entity Code/Event Code: 6/5

Severity: Info

Message: Bridge Traffic Filter — Rule <filter_rule_no.>, Circuit <ircuit_no.>. (Drop packet)

Meaning: A packet-matching filter rule <filter_rule_no.> was received on <ircuit_no.>. The packet was dropped, as specified by the filter.

Entity Code/Event Code: 6/6

Severity: Info

Message: Bridge Traffic Filter — Rule <filter_rule_no.>, Circuit <circuit_no.>. (Log only)

Meaning: A packet-matching filter rule <filter_rule_no.> was received on <circuit_no.>. The packet was logged, as specified by the filter.

Entity Code/Event Code: 6/7

Severity: Info

Message: Bridge Traffic Filter — Rule <filter_rule_no.>, Circuit <circuit_no.>. (Flood packet)

Meaning: A packet-matching filter rule <filter_rule_no.> was received on <circuit_no.>. The packet was flooded, as specified by the filter.

Entity Code/Event Code: 6/8

Severity: Info

Message: Bridge Traffic Filter — Rule <filter_rule_no.>, Circuit <circuit_no.>. (Forward to specific circuits)

Meaning: A packet-matching filter rule <filter_rule_no.> was received on <circuit_no.>. The packet was forwarded, as specified by the filter.

Entity Code/Event Code: 6/80

Severity: Info

Message: Line <slot_no.>:<connector_no.> added to group of <no._lines> lines for cct <circuit_no.>.

Meaning: The specified connector was added to the specified number of lines that make up the specified circuit group.

Entity Code/Event Code: 6/84

Severity: Info

Message: Last line in circuit died, circuit <circuit_no.> going down.

Meaning: The last active line in a multi-line circuit group has gone down which causes the circuit to go to the down state.

Entity Code/Event Code: 6/85

Severity: Info

Message: Line deleted from circuit <ircuit_no.>, <no_lines> active lines left.

Meaning: A line within a multi-line circuit group has gone down, leaving on the specified number of active lines.

Trace Events

Entity Code/Event Code: 6/71

Severity: Trace

Message: Priority Queuing Filter — Rule <filter_rule_no.>, Circuit <ircuit_no.> (Queue High and Log)

Meaning: The system received a packet that matched the specified rule on the specified circuit and put the packet into the high queue.

Entity Code/Event Code: 6/72

Severity: Trace

Message: Priority Queuing Filter — Rule <filter_rule_no.>, Circuit <ircuit_no.> (Queue Low and Log)

Meaning: The system received a packet that matched the specified rule on the specified circuit and put the packet into the low queue.

Entity Code/Event Code: 6/73

Severity: Trace

Message: Priority Queuing Filter — Rule <filter_rule_no.>, Circuit <ircuit_no.> (Log Only)

Meaning: The system received a packet that matched the specified rule on the specified circuit. The system took no action other than to generate this log message.

Entity Code/Event Code: 6/74

Severity: Trace

Message: Priority Queuing Filter — Rule *<filter_rule_no.>*, Circuit *<circuit_no.>* (Drop)

Meaning: The system received a packet that matched the specified rule on the specified circuit and dropped the packet.

Entity Code/Event Code: 6/88

Severity: Trace

Message: Priority Queuing Filter — Rule *<filter_rule_no.>*, Circuit *<circuit_no.>* (Length-based, length = *<packet_length>*)

Meaning: The system received a packet that matched the specified rule on the specified circuit. The packet's length is indicated by *<packet_length>*.

Entity Code/Event Code: 6/90

Severity: Trace

Message: cct *<circuit_no.>*: Outgoing pkt dropped; no header space.

Meaning: The system received a packet from Ethernet or FDDI that was to be bridged over Frame Relay or ATM. When Frame Relay or ATM tried to add the necessary header information to the packet, there was not enough space for the header. Therefore, the system dropped the packet.

Entity Code/Event Code: 6/93

Severity: Trace

Message: Priority Queuing Filter — Rule *<filter_rule_no.>*, Circuit *<circuit_no.>* (Accept)

Meaning: The outgoing circuit received and scheduled for transmission a packet that matched the specified Accept Filter rule.

DS1E1 Events

The Multichannel T1/E1 driver service, referred to as the DS1E1 entity, issues the following event messages. The entity code assigned to DS1E1 events is 63.

Fault Event

Entity Code/Event Code: 63/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The MCT1 driver experienced a fatal error and is restarting automatically. The driver will attempt to restart up to five times.

Action: Verify that the configuration is correct. Contact the Bay Networks Help Desk if the MCT1 module fails to restart.

Warning Events

Entity Code/Event Code: 63/2

Severity: Warning

Message: Connector COM <connector_no.> out of range.

Meaning: The T1 connector identified by <connector_no.> is invalid (has a value other than 1 or 2) and will be ignored.

Action: Modify the MCT1 configuration.

Note: You should not see this message if you used Site Manager to configure MCT1. (Site Manager automatically checks for invalid connector IDs.)

Entity Code/Event Code: 63/3

Severity: Warning

Message: Connector COM <connector_no.> logical line <line_no.> transmitter timeout.

Meaning: The designated connector could not transmit a Breath-of-Life frame within the Breath-of-Life interval.

Action: Check for the presence of a valid clocking signal or check the configuration.

Entity Code/Event Code: 63/4

Severity: Warning

Message: Connector COM <connector_no.> logical line <line_no.> receiver timeout.

Meaning: The designated connector did not receive a Breath-of-Life frame within the Breath-of-Life interval.

Action: Verify cable integrity. Confirm that the remote end is configured for Breath-of-Life transmission.

Entity Code/Event Code: 63/5

Severity: Warning

Message: Connector COM <connector_no.> not verified with diagnostic.

Meaning: Powerup diagnostics did not run on the designated connector.

Action: If you want to verify COM <connector_no.> integrity, rerun the powerup diagnostics by issuing the Technician Interface **diags** command to the slot in question.

Entity Code/Event Code: 63/6

Severity: Warning

Message: Connector COM <connector_no.> Munich interrupt queue has more than 400 entries.

Meaning: MCT1 is receiving an excessive number of spurious interrupts.

Action: Verify the port configuration. If the condition persists, contact the Bay Networks Help Desk.

Entity Code/Event Code: 63/7

Severity: Warning

Message: Connector COM <connector_no.> arack queue full.

Meaning: MCT1 is receiving an excessive number of spurious interrupts.

Action: Verify the port configuration. If the condition persists, contact the Bay Networks Help Desk.

Entity Code/Event Code: 63/8

Severity: Warning

Message: Connector COM <connector_no.> action request time-out, action specification register <hex_value>.

Meaning: MCT1 detected an error during initialization of the specified port.

Action: Verify the port configuration. Contact the Bay Networks Help Desk if the message recurs.

Entity Code/Event Code: 63/9

Severity: Warning

Message: Connector COM <connector_no.> logical line <line_no.> disabled.

Meaning: The specified logical line on the specified port was disabled.

Action: None required.

Entity Code/Event Code: 63/10

Severity: Warning

Message: Connector COM <connector_no.> disabled.

Meaning: The specified MCT1 port is disabled.

Action: None required.

Entity Code/Event Code: 63/11

Severity: Warning

Message: Connector COM <connector_no.> enabled.

Meaning: The specified MCT1 port is enabled and providing service.

Action: None required.

Entity Code/Event Code: 63/12

Severity: Warning

Message: Primary clock lost.

Meaning: The primary clock source has been withdrawn or failed.

Action: None required. MCT1 will use the secondary clock source to derive timing signals.

Entity Code/Event Code: 63/13

Severity: Warning

Message: Primary clock ok

Meaning: The primary clock has been restored.

Action: None required.

Entity Code/Event Code: 63/14

Severity: Warning

Message: Connector COM <connector_no.> Loss of signal failure.

Meaning: MCT1 declared a Loss of Signal (LOS) failure across the specified port. The failure occurred after detection of an Out-Of-Frame (OOF) condition for a configurable period of time, T , where $2 < T < 10$ seconds. Receiving two of four, or two of five, consecutive framing bits that contain a bit error in the framing pattern triggers the OOF condition.

Action: None required. MCT1 clears the LOS condition state (Red Alarm) after the Out-Of-Frame condition is cleared.

Entity Code/Event Code: 63/15

Severity: Warning

Message: Connector COM <connector_no.> Loss of frame failure.

Meaning: MCT1 declared a Loss of Frame (LOF) failure across the specified port. Receiving two of four, or two of five, consecutive framing bits that contain a bit error in the framing pattern triggers the LOF condition.

Action: None required. MCT1 clears the LOF condition state (Red Alarm) after receiving the proper framing pattern.

Entity Code/Event Code: 63/16

Severity: Warning

Message: Connector COM <connector_no.> Alarm indication signal failure.

Meaning: MCT1 detected an unframed, all-ones bit pattern in the received data stream across the specified port and issued an Alarm Indication Signal (AIS).

Action: None required. MCT1 clears the AIS condition after receiving a properly framed bit stream.

Entity Code/Event Code: 63/17

Severity: Warning

Message: Connector COM <connector_no.> Remote alarm indication failure.

Meaning: The remote end of the specified MCT1 port has detected an unframed, all-ones bit pattern in the received data stream and issued an Alarm Indication Signal (AIS), or Yellow Alarm.

Action: None required. The remote end clears the AIS condition after receiving a properly framed bit stream.

Entity Code/Event Code: 63/18

Severity: Warning

Message: Connector COM <connector_no.> failure cleared.

Meaning: MCT1 has cleared a previously generated alarm.

Action: None required.

Entity Code/Event Code: 63/54

Severity: Warning

Message: Connector COM <connector_no.>, Logical Line <line_no.> brought down due to excessive receive errors.

Meaning: This logical line has been disabled due to excessive errors received. It has been disabled so that the operation of the other logical lines on this connector are not affected by the errors received on the specified logical line.

Entity Code/Event Code: 63/58

Severity: Warning

Message: Connector COM <connector_no.> disabled (wrong module type).

Meaning: Although this interface is configured, there is an incompatibility between the configuration and the link module present. For example, an attempt was made to configure an E1 interface on an MCT1 Link Module or a T1 interface on an MCE1 Link Module. This interface is not brought up.

Entity Code/Event Code: 63/59

Severity: Warning

Message: Connector COM <connector_no.>, Logical Line <line_no.> Illegal time-slot assignment.

Meaning: The time-slot assignment for the specified Logical Line is illegal. If the media type is T1, then a time-slot of greater than 24 has been used. If the media type is E1, then a time-slot of greater than 31 has been used.

Action: Configure time-slot assignment for the specified Logical Line within the range 1 to 24 for T1, and 1 to 31 for E1.

Entity Code/Event Code: 63/60

Severity: Warning

Message: Connector COM <connector_no.>, Logical Line <line_no.> time-slot 16 cannot be used for data.

Meaning: Time-slot 16 is not valid for data for Line Types of E1MF and E1MFCRC. Time-slot 16 is used for signaling for these E1 line types.

Action: Configure time-slot assignment for specified logical line without using time-slot 16.

Entity Code/Event Code: 63/64**Severity:** Warning**Message:** Connector COM <connector_no.>, Logical Line <line_no.>, remote loopback detected.**Meaning:** A remote loopback condition has been detected by a driver. The driver detects this condition only if both BOFL and Remote Loopback Detection are enabled. The driver detects this condition if it receives BOFL packets whose DST MAC address is equal to the address of this interface. The state of the line will be set to REMOTELOOP and the line driver will be restarted and it will stay in down state until the remote loopback condition is cleared.**Action:** If the loopback condition is unintended, contact the service providers between this site and the remote site and determine where the loopback is occurring. Arrange for the loopback to be removed.**Entity Code/Event Code: 63/65****Severity:** Warning**Message:** Connector COM <connector_no.>, Logical Line <line_no.>, remote loopback cleared.**Meaning:** A remote loopback condition previously detected by a driver has been cleared. The driver will return to the UP state and provide service to the router. The driver detects this condition only if both BOFL and Remote Loopback Detection are enabled. The driver detects that the remote loopback condition has cleared when it receives a BOFL frame which was not sent by itself. This indicates the remote send is able to send packets through to this interface.**Entity Code/Event Code: 63/66****Severity:** Warning**Message:** Connector COM <connector_no.>, Logical Line <line_no.>, remote end reports not receiving frames.**Meaning:** The remote end has reported through BOFL that it is not receiving frames. This could be due to a disconnect in the transmission cable from this router to the remote router while the transmission cable from the remote router to this router is still intact.**Action:** Check all connections between this router and the remote router.

Info Events

Entity Code/Event Code: **63/19**

Severity: Info

Message: Service initializing.

Meaning: MCT1 is initializing.

Entity Code/Event Code: **63/20**

Severity: Info

Message: Connector COM <connector_no.> configuration deleted.

Meaning: The specified port configuration has been deleted.

Entity Code/Event Code: **63/21**

Severity: Info

Message: Connector COM <connector_no.> logical line <line_no.> providing LLC service.

Meaning: The specified connector is enabled and providing LLC service.

Entity Code/Event Code: **63/22**

Severity: Info

Message: Connector COM <connector_no.> logical line <line_no.> LLC service withdrawn.

Meaning: The specified connector has ceased to provide LLC service.

Entity Code/Event Code: **63/23**

Severity: Info

Message: Primary and secondary clocks unoperational — Switching to Internal Clock Source.

Meaning: The primary and secondary sources of timing signals (specified by the Primary Clock Source and Secondary Clock Source global parameters) have been withdrawn or have failed. MCT1 will attempt to generate timing signals internally.

Entity Code/Event Code: 63/24

Severity: Info

Message: Connector COM <connector_no.> B8ZS code received on port configured for AMI.

Meaning: B8ZS (Binary 8 Zeros Suppression) coding has been detected on a line configured for AMI (Address Mark Inversion) coding.

Entity Code/Event Code: 63/25

Severity: Info

Message: Connector COM <connector_no.> Unscheduled FDL message received — Type RAI.

Meaning: MCT1 received an unscheduled Remote Alarm Indication on the specified port over the ANSI Facility Data Link.

Entity Code/Event Code: 63/26

Severity: Info

Message: Connector COM <connector_no.> Unscheduled FDL message received — Type Loopback Retention.

Meaning: MCT1 received an unscheduled loopback retention message on the specified port over the ANSI Facility Data Link.

Entity Code/Event Code: 63/27

Severity: Info

Message: Connector COM <connector_no.> Unscheduled FDL message received — type Line Loopback Activate.

Meaning: MCT1 received an unscheduled line loopback activate message on the specified port over the ANSI Facility Data Link.

Entity Code/Event Code: 63/28

Severity: Info

Message: Connector COM <connector_no.> Unscheduled FDL message received — type Line Loopback Deactivate.

Meaning: MCT1 received an unscheduled line loopback deactivate message on the specified port over the ANSI Facility Data Link.

Entity Code/Event Code: 63/29

Severity: Info

Message: Connector COM <connector_no.> Unscheduled FDL message received — Type Loopback Activate.

Meaning: MCT1 received an unscheduled loopback activate message on the specified port over the ANSI Facility Data Link.

Entity Code/Event Code: 63/30

Severity: Info

Message: Connector COM <connector_no.> Unscheduled FDL message received — type Payload Loopback Activate.

Meaning: MCT1 received an unscheduled payload loopback activate message on the specified port over the ANSI Facility Data Link.

Entity Code/Event Code: 63/31

Severity: Info

Message: Connector COM <connector_no.> Unscheduled FDL message received — Type Payload Loopback Deactivate.

Meaning: MCT1 received an unscheduled payload loopback deactivate message on the specified port over the ANSI Facility Data Link.

Entity Code/Event Code: 63/32

Severity: Info

Message: Connector COM <connector_no.> Unscheduled FDL message received — Type Universal Loopback Deactivate.

Meaning: MCT1 received an unscheduled universal loopback deactivate message on the specified port over the ANSI Facility Data Link.

Entity Code/Event Code: 63/33

Severity: Info

Message: Connector COM <connector_no.> Undocumented unscheduled FDL message received.

Meaning: MCT1 received an unscheduled and unknown message type on the specified port over the Facility Data Link.

Entity Code/Event Code: 63/34

Severity: Info

Message: Connector COM <connector_no.> Loop timing source OK.

Meaning: MCT1 is receiving valid loop timing signals from Port 0 or Port1.

Entity Code/Event Code: 63/35

Severity: Info

Message: Connector COM <connector_no.> Loop timing source lost.

Meaning: MCT1 has lost the source of loop timing.

Entity Code/Event Code: 63/36

Severity: Info

Message: External clock source OK.

Meaning: MCT1 is receiving valid timing signals from an external source.

Entity Code/Event Code: 63/37

Severity: Info

Message: External clock source lost.

Meaning: The external clock has been withdrawn or has failed.

Entity Code/Event Code: 63/38

Severity: Info

Message: Connector COM <connector_no.> logical line <line_no.> Operator entry error.

Meaning: MCT1 detected an error in the "channel assignment" entry.

Entity Code/Event Code: 63/56

Severity: Info

Message: Connector COM <connector_no.> received loop-up code.

Meaning: Port <port_ID> is entering a loopback state, because it received a T1 loop-up code from the T1 line.

Entity Code/Event Code: 63/57

Severity: Info

Message: Connector COM <connector_no.> received loop-down code.

Meaning: Port <port_ID> is exiting from loopback state, because it received a T1 loop-down code from the T1 line.

DVMRP Events

The DVMRP service, referred to as the DVMRP entity, issues the following event messages. The entity code assigned to DVMRP events is 82.

Fault Event

Entity Code/Event Code: 82/1

Severity: Fault

Message: System Error, service attempting restart

Meaning: The router experienced the fatal error <fatal_error_message> and is restarting automatically. The router will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if the router fails to restart.

Warning Event

Entity Code/Event Code: 82/10

Severity: Warning

Message: Conflicting origin/mask for route. Current route: <IP_address/mask>, Received route: <IP_address/mask>

Meaning: The mask portion of the route in the received report differs from the mask portion of the current route stored in the routing table.

Action: This condition may correct itself. If not, contact your route supplier.

Information Events

Entity Code/Event Code: 82/2

Severity: Info

Message: DVMRP multicast processing started

Meaning: The DVMRP subsystem has been started, and it has found a valid wfDvmrpBase mib entry.

Entity Code/Event Code: 82/3

Severity: Info

Message: DVMRP multicast processing terminated

Meaning: The DVMRP subsystem has been terminated; for example, the wfDvmrpBase entry has been marked as DELETED or DISABLED.

Entity Code/Event Code: 82/4

Severity: Info

Message: DVMRP loader gate started

Meaning: The dynamic loader has successfully loaded the DVMRP subsystem.

E1 Events

The E1 driver service, referred to as the E1 entity, issues the following event messages. The entity code assigned to E1 events is 35.

Fault Event

Entity Code/Event Code: 35/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The E1 driver experienced a fatal error and is restarting automatically. The driver will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if the E1 driver fails to restart.

Warning Events

Entity Code/Event Code: 35/2

Severity: Warning

Message: Connector E1_<connector_no.> out of range.

Meaning: The E1 connector identified by <connector_no.> is invalid (a value other than 1 or 2) and will be ignored.

Action: Modify the E1 configuration to reflect a connector number of 1 or 2.

Note: You should not see this message if you configured E1 using Site Manager, because Site Manager rejects invalid connector identification.

Entity Code/Event Code: 35/3

Severity: Warning

Message: Connector E1_<connector_no.> diagnostic failed.

Meaning: The specified E1 connector failed powerup diagnostics and has been disabled.

Action: Verify the integrity of the E1 link module.

Entity Code/Event Code: 35/4

Severity: Warning

Message: Connector E1_<connector_no.> not verified with diagnostic.

Meaning: Powerup diagnostics were aborted/terminated prior to verifying the specified E1 connection.

Action: Rerun diagnostics to verify the integrity of the E1 link module.

Entity Code/Event Code: 35/5

Severity: Warning

Message: Connector E1_<connector_no.> unknown state variable value.

Meaning: The E1 line driver state MIB object (wfE1state) contained an invalid entry. Valid entries are as follows:

1 for UP

3 for INITIALIZING

4 for NOTPRESENT

Action: None required, because E1 will restart the connection.

Info Events**Entity Code/Event Code: 35/6**

Severity: Info

Message: Connector E1_<connector_no.> instance record deleted.

Meaning: The E1 record for the connector identified by <connector_no.> has been deleted from the configuration.

Entity Code/Event Code: 35/7

Severity: Info

Message: Connector E1_<connector_no.> line disabled.

Meaning: E1 service has been disabled on the connector identified by <connector_no.>.

Entity Code/Event Code: 35/8

Severity: Info

Message: Connector E1_<connector_no.> line enabled.

Meaning: E1 service has been enabled on the connector identified by <connector_no.>.

Entity Code/Event Code: 35/9

Severity: Info

Message: Connector E1_<connector_no.> providing framer service.

Meaning: E1 is enabled and providing service on the connector identified by <connector_no.>.

Entity Code/Event Code: 35/10

Severity: Info

Message: Connector E1_<connector_no.> Sync loss detected.

Meaning: Framing sequence has been lost.

Entity Code/Event Code: 35/11

Severity: Info

Message: Connector E1_<connector_no.> remote alarm active.

Meaning: E1 received a message indicating that an alarm condition has been declared/generated by the network/CPE equipment.

Entity Code/Event Code: 35/12

Severity: Info

Message: Connector E1_<connector_no.> remote multiframe alarm active.

Meaning: E1 received a Distant Multiframe Alarm signal (issued when bit 6 of time slot 16 in frame 0 is set for 3 consecutive frames).

Entity Code/Event Code: 35/13

Severity: Info

Message: Connector E1_<connector_no.> sync loss condition clearing.

Meaning: Signal resync is in progress.

Entity Code/Event Code: 35/14

Severity: Info

Message: Connector E1_<connector_no.> sync loss condition deactivated.

Meaning: Signal resync has been completed.

Entity Code/Event Code: 35/15

Severity: Info

Message: Connector E1_<connector_no.> remote alarm clearing.

Meaning: The condition that generated a previously transmitted alarm message is being rectified.

Entity Code/Event Code: 35/16

Severity: Info

Message: Connector E1_<connector_no.> remote alarm active.

Meaning: The condition that generated a previously transmitted alarm message has been rectified.

Entity Code/Event Code: 35/17

Severity: Info

Message: Connector E1_<connector_no.> clock being recovered from port 2.

Meaning: The E1 connector identified by <connector_no.> is recovering the master clock via Port 2.

Entity Code/Event Code: 35/18

Severity: Info

Message: Connector E1_<connector_no.> clock being recovered from port 1.

Meaning: The E1 connector identified by <connector_no.> is recovering the master clock via Port 1.

Entity Code/Event Code: 35/19

Severity: Info

Message: Service initializing.

Meaning: E1 is initializing.

Entity Code/Event Code: 35/20

Severity: Info

Message: Connector E1_<connector_no.> remote multiframe alarm clearing.

Meaning: The condition that generated a previously transmitted multiframe alarm message is being rectified.

Entity Code/Event Code: 35/21

Severity: Info

Message: Connector E1_<connector_no.> remote multiframe alarm cleared.

Meaning: The condition that generated a previously transmitted multiframe alarm message has been rectified.

EGP Events

The Exterior Gateway Protocol service, referred to as the EGP entity, issues the following event messages. The entity code assigned to EGP events is 46.

Fault Event

Entity Code/Event Code: 46/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The EGP protocol experienced a fatal error and is restarting automatically. The router will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if the router fails to restart.

Warning Events

Entity Code/Event Code: 46/16

Severity: Warning

Message: Bad version <no.> from peer <IP_address>, AS <no.>

Meaning: The peer indicated by the IP address and AS number is running the wrong version of EGP.

Action: Check the peer to make sure that it is running EGP Version 2.

Entity Code/Event Code: 46/17

Severity: Warning

Message: Invalid AS <no.> from peer <IP_address>

Meaning: The peer indicated by <IP_address> is returning an AS number that is not within the valid range. The AS number must be between 1 and 65535.

Action: Make sure that the peer's AS number is reconfigured to an appropriate value.

Entity Code/Event Code: 46/18

Severity: Warning

Message: Unknown AS <no.> from peer <IP_address>, should be <no.>.

Meaning: After the connection is already established, the peer indicated by <IP_address> is returning a different AS number than the one it originally returned.

Action: Check the peer to make sure it is configured correctly.

Entity Code/Event Code: 46/19

Severity: Warning

Message: Bad AS <no.> from peer <IP_address>, Local AS <no.>

Meaning: The remote peer indicated by <IP_address> has sent a packet with the same AS number as the local peer.

Action: Reconfigure the AS number of one of the peers on this connection.

Entity Code/Event Code: 46/20

Severity: Warning

Message: Incorrect checksum <no.> from peer <IP_address>, should be <no.>

Meaning: The local peer received a packet with an incorrect checksum from the peer indicated by <IP_address>.

Action: If you get several of these messages, try restarting the peer.

Entity Code/Event Code: 46/21

Severity: Warning

Message: Invalid type <no.> from peer <IP_address>, AS <no.>

Meaning: The local peer received an EGP packet of an invalid type from the peer indicated by <IP_address>, AS <no.>.

Action: Check the configuration of the peer that transmitted the bad packet.

Entity Code/Event Code: 46/22

Severity: Warning

Message: Invalid code <no.> from peer <IP_address>, Type <no.>

Meaning: The local peer received an EGP packet with an invalid code number from the peer indicated by <IP_address>.

Action: Check the configuration of the peer that transmitted the bad packet.

Entity Code/Event Code: 46/23

Severity: Warning

Message: Bad Hello — code <no.> from peer <IP_address>, type <no.>

Meaning: The local peer received a Hello packet with a bad code from the peer indicated by <IP_address>.

Action: Check the configuration of the peer that transmitted the bad packet.

Entity Code/Event Code: 46/24

Severity: Warning

Message: Bad IHU — code <no.> from peer <IP_address>, type <no.>

Meaning: The local peer received an IHU packet with a bad code from the peer indicated by <IP_address>.

Action: Check the configuration of the peer that transmitted the bad packet.

Entity Code/Event Code: 46/25

Severity: Warning

Message: Poll interval <hsec> out of range — peer <IP_address>.

Meaning: The local peer received an invalid poll interval from the peer indicated by <IP_address>. The poll interval was not within the valid range (120 to 480 hundredths of a second).

Action: Reconfigure the poll timer on the peer that transmitted the bad poll interval.

Entity Code/Event Code: 46/26

Severity: Warning

Message: Hello interval <sec> out of range — peer <IP_address>

Meaning: The local peer received an invalid hello interval from the peer indicated by <IP_address>. The hello interval was not within the valid range (30 to 120 seconds).

Action: Reconfigure the hello timer on the peer that transmitted the bad hello interval.

Entity Code/Event Code: 46/27

Severity: Warning

Message: Bad polling mode <passive> ours <passive> — peer <IP_address>

Meaning: Both the local peer and the remote peer, indicated by <IP_address>, are in the passive polling mode.

Action: Reconfigure the polling mode for one of the peers on this connection.

Entity Code/Event Code: 46/28

Severity: Warning

Message: Error indication from peer <IP_address> status <no.> Reason <no.>

Meaning: The local peer received an error indication from the peer indicated by <IP_address>.

Action: Check the error indication to see if something needs to be reconfigured.

Entity Code/Event Code: 46/29

Severity: Warning

Message: Received pkt with unknown EGP message type from peer <IP_address>, type <no.>, code <no.>

Meaning: The local peer received an invalid type of EGP packet.

Action: Check the configuration of the peer that transmitted the invalid packet.

Entity Code/Event Code: 46/32

Severity: Warning

Message: Received pkt with unknown EGP message code from peer <IP_address> Type <no.> Code <no.>

Meaning: The local peer received an EGP packet with an invalid message code.

Action: Check the configuration of the peer that transmitted the invalid packet.

Entity Code/Event Code: 46/33

Severity: Warning

Message: Fragmentation error <no.> on sending updates on interface <no.>.

Meaning: An EGP update sent from the interface indicated by <no.> was too large and fragmentation didn't work.

Action: None required. The update will not be retransmitted. Another update will be sent the next time a Poll request is received.

Entity Code/Event Code: 46/34

Severity: Warning

Message: Reassembly error <no.> on sending update on interface <no.>.

Meaning: The interface indicated by <no.> could not reassemble a fragmented update message.

Entity Code/Event Code: 46/35

Severity: Warning

Message: EGP connection record for peer <IP_address> misconfigured -- disabled

Meaning: Because the EGP connection record between the local and remote peer is misconfigured, the connection has been disabled.

Action: Check previous event messages to determine the problem and reconfigure the EGP connection record accordingly.

Entity Code/Event Code: 46/36

Severity: Severity

Message: Illegal Local AS number <no.> configured in wfEgpEntry

Meaning: The Local AS number was set to 0. This is an illegal value.

Action: Reconfigure the Local AS number to be within the valid range, 1 to 65535.

Entity Code/Event Code: 46/37

Severity: Warning

Message: Invalid peer address configured <IP_address>

Meaning: The IP address of remote peer is invalid.

Action: Reconfigure the IP address.

Entity Code/Event Code: 46/38

Severity: Warning

Message: Local IP address is configured same as peer address, <IP_address>

Meaning: The local and remote peer have the same IP address. This is not legal.

Action: Reconfigure the IP address of one of the peers.

Entity Code/Event Code: 46/39

Severity: Warning

Message: Invalid Acquisition Mode configured for peer, <IP_address>

Meaning: The peer indicated by <IP_address> has an invalid value for its Acquisition Mode. The Acquisition Mode must be either Active or Passive.

Action: Reconfigure the peer's Acquisition Mode to either Active or Passive.

Entity Code/Event Code: 46/40

Severity: Warning

Message: Invalid Poll Mode configured for peer <IP_address>

Meaning: The peer indicated by <IP_address> has an invalid value for its Poll Mode. The Poll Mode must be Active, Passive, or Both.

Action: Reconfigure the peer's Poll Mode to Active, Passive, or Both.

Entity Code/Event Code: 46/41

Severity: Warning

Message: Hello Timer value <sec> configured out of range for peer <IP_address>

Meaning: The hello timer value for the peer indicated by <IP_address> is out of the valid range of 30 to 120 seconds.

Action: Reconfigure the hello timer value to be within the appropriate range.

Entity Code/Event Code: 46/42

Severity: Warning

Message: Poll Timer value <hsec> configured out of range for peer <IP_address>

Meaning: The poll timer value for the peer indicated by <IP_address> is out of the valid range of 120 to 480 hundredths of a second.

Action: Reconfigure the poll timer value to be within the appropriate range.

Entity Code/Event Code: 46/43

Severity: Warning

Message: Invalid Gateway Mode configured out of range for peer <IP_address>

Meaning: The Gateway Mode for the peer indicated by <IP_address> is not valid. The Gateway Mode must either be Core or Non Core.

Action: Reconfigure the Gateway Mode value to be either Core or Non Core.

Info Events

Entity Code/Event Code: 46/2

Severity: Info

Message: Protocol initializing.

Meaning: EGP is initializing.

Entity Code/Event Code: 46/3

Severity: Info

Message: Protocol terminating.

Meaning: EGP is terminating. It has been either disabled on the slot or deleted from the router.

Entity Code/Event Code: 46/4

Severity: Info

Message: Connection between <IP_address> and <IP_address> initializing.

Meaning: The connection between the two peers indicated by <IP_address> and <IP_address> is coming up.

Entity Code/Event Code: 46/5

Severity: Info

Message: Connection between <IP_address> and <IP_address> terminating.

Meaning: The connection between the two peers indicated by <IP_address> and <IP_address> is going down.

Entity Code/Event Code: 46/6

Severity: Info

Message: Neighbor <IP_address2> acquired on IP interface <IP_address1>

Meaning: The IP interface <IP_address1> has acquired a neighbor indicated by <IP_address2>. The Neighbor Acquisition phase of the EGP protocol has been achieved.

Entity Code/Event Code: 46/7

Severity: Info

Message: Neighbor <IP_address> up, polling enabled

Meaning: The neighbor indicated by <IP_address> is up and sending poll packets. The Network Reachability phase of the EGP protocol has been achieved.

Entity Code/Event Code: 46/8

Severity: Info

Message: Neighbor <IP_address> up, polling disabled

Meaning: The neighbor indicated by <IP_address> is up, but is not issuing poll packets. The neighbor is in passive mode.

Entity Code/Event Code: 46/9

Severity: Info

Message: Neighbor <IP_address> down

Meaning: The EGP neighbor indicated by <IP_address> is down.

Entity Code/Event Code: 46/10

Severity: Info

Message: Neighbor <IP_address> unacquired

Meaning: The EGP neighbor indicated by <IP_address> is up.

FDDI Events

The Fiber Distributed Data Interface service, referred to as the FDDI entity, issues the following event messages. The entity code assigned to FDDI events is 8.

Fault Events

Entity Code/Event Code: 8/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The FDDI driver experienced a fatal error and is restarting automatically. The driver will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call the Bay Networks Help Desk if the FDDI driver fails to restart.

Entity Code/Event Code: 8/66

Severity: Fault

Message: Node <FDDI_connector_no.> bad value for <MIB_variable> attribute.

Meaning: You entered an invalid value for the specified attribute or attributes (wfFddiSmtStatRptPolicy [Status Report Protocol], wfFddiMacMaUnitDataEnable [LLC Data Enable], or wfFddiSmtDatProtocol [Duplicate Address Protocol]).

Action: Check the value entered for the specified attribute.

Entity Code/Event Code: 8/67

Severity: Fault

Message: Node <FDDI_connector_no.> illegal MacTReq value <MacTReq_value> requested (range: > val_x and <= val_y).

Meaning: You entered an invalid value for wfFddiMacTReq (Requested TTRT). The following relationship must be true:

wfFddiPathTvxLowerBound (Tvx Lower Bound) < wfFddiMacTReq (Requested TTRT)
<= wfFddiPathTMaxLowerBound (T_Max Lower Bound)

Action: Check the value entered for wfFddiMacTReq.

Entity Code/Event Code: 8/68

Severity: Fault

Message: Node <FDDI_connector_no.> illegal TvxLowerBound value <TvxLowerBound_value> requested.

Meaning: You entered an invalid value for wfFddiTvxLowerBound. The following relationship must be true:

wfFddiPathTvxLowerBound (Tvx Lower Bound) > 0 and < or = 5.2 msec and < wfFddiMacTReq (Requested TTRT)

Action: Check the value entered for wfFddiTvxLowerBound.

Entity Code/Event Code: 8/69

Severity: Fault

Message: Node <FDDI_connector_no.> illegal TMaxLowerBound value <TMaxLowerBound_value> requested.

Meaning: You entered an invalid value for wfFddiTMaxLowerBound (T_Max Lower Bound). The following relationship must be true: wfFddiMaxLowerBound > or = wfFddiMacTReq [Requested TTRT] and > or = 10 msec and < 1336.9344.

Action: Check the value entered for wfFddiTMaxLowerBound.

Entity Code/Event Code: 8/70

Severity: Fault

Message: Node <FDDI_connector_no.> illegal TraceMaxExpiration value <TraceMaxExpiration_value> requested, must be > <value> ms.

Meaning: You entered an invalid value for wfFddiSmtTraceMaxExpiration (Trace Max Expiration). The value entered must be greater than 6.1 ms.

Action: Check the value entered for wfFddiSmtTraceMaxExpiration.

Entity Code/Event Code: 8/71

Severity: Fault

Message: Node <FDDI_connector_no.>, phy <AIB> — illegal LerCutOff value <LerCutOff_value> requested (range: 4 — 15).

Meaning: You entered an invalid value for wfFddiPortLerCutOff (LER Cutoff). The value entered must be between 4 and 15, inclusive.

Action: Check the value entered for wfFddiPortLerCutOff.

Entity Code/Event Code: 8/72

Severity: Fault

Message: Node <FDDI_connector_no.>, phy <AIB> — illegal LerAlarm value <LerAlarm_value> requested (range: 4 — 15).

Meaning: You entered an invalid value for wfFddiPortLerAlarm (LER Alarm). The value entered must be between 4 and 15, inclusive.

Action: Check the value entered for wfFddiPortLerAlarm.

Warning Events

Entity Code/Event Code: 8/2

Severity: Warning

Message: Node <FDDI_connector_no.> transmitter time-out.

Meaning: The FDDI connector identified by <FDDI_connector_no.> timed out on transmission after a user-programmable time.

Action: None

Entity Code/Event Code: 8/3

Severity: Warning

Message: Node <FDDI_connector_no.> diagnostic failed.

Meaning: The specified FDDI connector failed powerup diagnostics and has been disabled.

Action: Verify the integrity of the FDDI link module.

Entity Code/Event Code: 8/4

Severity: Warning

Message: Node <FDDI_connector_no.> out of range.

Meaning: The configured FDDI connection is invalid and will be ignored.

Action: Repair the configuration record to provide a valid connection value.

Entity Code/Event Code: 8/5

Severity: Warning

Message: Node <FDDI_connector_no.> not verified with diagnostic.

Meaning: Powerup diagnostics were aborted or terminated prior to verifying the specified FDDI connection.

Action: Rerun diagnostics to verify the integrity of the FDDI link module.

Entity Code/Event Code: 8/6

Severity: Warning

Message: Node <FDDI_connector_no.> SMT failed initialization.

Meaning: Station Management (SMT) cannot be initialized on the specified FDDI connection.

Action: Restart the FDDI slot.

Entity Code/Event Code: 8/7

Severity: Warning

Message: Node <FDDI_connector_no.> SMT failed to enable station.

Meaning: Station Management cannot enable dual attachment ports.

Action: Restart the FDDI slot.

Entity Code/Event Code: 8/8

Severity: Warning

Message: Node <FDDI_connector_no.> LEM reject on PHY <AIB>.

Meaning: The Link Error Monitor (LEM) has rejected Station Management (SMT) on the specified physical connector.

Action: Test the link quality. Clean and reseal the FDDI connector.

Entity Code/Event Code: 8/9

Severity: Warning

Message: Node <FDDI_connector_no.> LCT reject <local|remote|both> on PHY <A|B>.

Meaning: The Link Confidence Test (LCT) has rejected Station Management (SMT) on the specified physical connector.

Action: The station automatically returns to an operational state unless the ring is broken or a fatal error occurs.

Entity Code/Event Code: 8/10

Severity: Warning

Message: Node <FDDI_connector_no.> SMT unknown response frame.

Meaning: Station Management (SMT) received an unexpected response frame.

Action: The station automatically returns to an operational state unless the ring is broken or a fatal error occurs.

Entity Code/Event Code: 8/11

Severity: Warning

Message: Node <FDDI_connector_no.> PC trace initiated.

Meaning: The PC (Physical Connection) trace function, which provides a recovery mechanism for stuck Beacon conditions on the ring, has been initiated.

Action: The station automatically returns to an operational state unless the ring is broken or a fatal error occurs.

Entity Code/Event Code: 8/12

Severity: Warning

Message: Node <FDDI_connector_no.> PC trace path test.

Meaning: FDDI has initiated a Physical Connection (PC) path test to determine if there is a faulty MAC or datapath on the ring.

Action: The station automatically returns to an operational state unless the ring is broken or a fatal error occurs.

Entity Code/Event Code: 8/13

Severity: Warning

Message: Node <FDDI_connector_no.> PC trace received.

Meaning: FDDI received and is repeating a Physical Connection (PC) trace signal. Reception of a PC trace signal indicates that the other end of the link has initiated PC trace after detecting a stuck beacon condition.

Action: The station automatically returns to an operational state unless the ring is broken or a fatal error occurs.

Entity Code/Event Code: 8/14

Severity: Warning

Message: Node <FDDI_connector_no.> generating directed beacons.

Meaning: Station Management (SMT) fault recovery software is generating and transmitting beacon frames.

Action: The station automatically returns to an operational state unless the ring is broken or a fatal error occurs.

Entity Code/Event Code: 8/15

Severity: Warning

Message: Node <FDDI_connector_no.> stopping directed beacons.

Meaning: FDDI has ceased the transmission of directed beacons (informing the ring of a stuck Beacon condition) over the specified FDDI connector.

Action: Either the ring will repair itself, or Station Management will initiate a Physical Connection (PC) trace to isolate the fault.

Entity Code/Event Code: 8/16

Severity: Warning

Message: Node <FDDI_connector_no.> directed beacon received.

Meaning: Station Management (SMT) received a directed beacon frame.

Action: The station automatically returns to an operational state unless the ring is broken or a fatal error occurs.

Entity Code/Event Code: 8/17

Severity: Warning

Message: Node <FDDI_connector_no.> MAC beaconing initiated (TRT).

Meaning: Station Management (SMT) has initiated beaconing triggered by the expiration of the TRT timer.

Action: The station automatically returns to an operational state unless the ring is broken or a fatal error occurs.

Entity Code/Event Code: 8/18

Severity: Warning

Message: Node <FDDI_connector_no.> claim initiated (TVX or LateCt).

Meaning: Station Management (SMT) has initiated the token claim process triggered by the expiration of TVX.

Action: This is a normal event when the station has not seen the token in a given period of time.

Entity Code/Event Code: 8/19

Severity: Warning

Message: Node <FDDI_connector_no.> duplicate address detected.

Meaning: Station Management (SMT) detected another ring member using the identical MAC address.

Action: Resolve the duplicate address.

Entity Code/Event Code: 8/20

Severity: Warning

Message: Node <FDDI_connector_no.> SMT station database initialization failed.

Meaning: The Station Management (SMT) station database is corrupted.

Action: Restart the FDDI slot.

Entity Code/Event Code: 8/21

Severity: Warning

Message: Node <FDDI_connector_no.> SMT link database initialization failed.

Meaning: The Station Management (SMT) link database is corrupted.

Action: Restart the FDDI slot.

Entity Code/Event Code: 8/22

Severity: Warning

Message: Node <FDDI_connector_no.> SMT PHY <A|B> database initialization failed.

Action: The specified Station Management (SMT) PHY database is corrupted.

Action: Restart the FDDI slot.

Entity Code/Event Code: 8/23

Severity: Warning

Message: Node <FDDI_connector_no.> link fault.

Meaning: Station Management (SMT) cannot generate directed beacons or jam beacons, because SMT is already in the beaconing state.

Action: The station automatically returns to an operational state unless the ring is broken or a fatal error occurs.

Entity Code/Event Code: 8/24

Severity: Warning

Message: Node <FDDI_connector_no.> PHY <A|B> disconnected.

Meaning: The specified physical connection has failed. The physical connection is considered disconnected if the Physical Connection Management (PCM) state machine transitions from the Active to the Break state. Consequently, this message is not necessarily an indication of a faulty or disconnected physical connector.

Action: The station automatically returns to an operational state unless the ring is broken or a fatal error occurs.

Entity Code/Event Code: 8/25

Severity: Warning

Message: Node <FDDI_connector_no.> link unavailable.

Meaning: Station Management (SMT) found that the link has become unavailable because of a ring fault.

Action: The station automatically returns to an operational state unless the ring is broken or a fatal error occurs.

Entity Code/Event Code: 8/64

Severity: Warning

Message: Node <FDDI_connector_no.> failed to enable hardware filter.

Meaning: The specified FDDI node failed to enable hardware filtering. System resources may not be available to complete the function.

Action: Wait until system resources become available and then enable hardware filtering. If the message continues to appear, view the Hardware Filter (HWF) events in the system log to determine the cause of failure.

Entity Code/Event Code: 8/65

Severity: Warning

Message: Node <FDDI_connector_no.> hardware filter driver not accessible for <Enable/Disable> operation.

Meaning: The hardware filter driver entity is unavailable to satisfy the specified operation.

Action: Configure the hardware filter driver for the slot on which hardware filtering is desired.

Entity Code/Event Code: 8/73

Severity: Warning

Message: Node <FDDI_connector_no.> PHY <A/B> placed in standby.

Meaning: Indicates that the PCM in PHY (A or B) has been placed in standby mode because of Dual Homing policies that were previously set.

Action: The specified PHY remains in standby mode unless the active PHY becomes disabled, in which case the standby PHY is immediately inserted onto the ring.

Entity Code/Event Code: 8/75

Severity: Warning

Message: Node <FDDI_connector_no.> <entity_type> <action_no.> operation failed.

Meaning: The action for the specified entity failed on the FDDI connector shown in the message.

Action: None required.

Entity Code/Event Code: 8/89

Severity: Warning

Message: Node <FDDI_connector_no.>, gate id 0x<no.> could not get a buffer.

Meaning: This interface did not come up, because a buffer was not available to send a message.

Entity Code/Event Code: 8/90

Severity: Warning

Message: Node <FDDI_connector_no.>, gate id 0x<no.>, encountered an RPC time-out.

Meaning: This interface did not come up, because an RPC timeout occurred while sending a message to the address.

Action: None required.

Entity Code/Event Code: 8/91

Severity: Warning

Message: Node <FDDI_connector_no.> aborting init. No Net Module Present in Module location <no.>.

Meaning: Either the network module in this location is missing or the configuration is incorrect.

Action: Insert the missing network module or correct the configuration.

Entity Code/Event Code: 8/92

Severity: Warning

Message: Node <FDDI_connector_no.> aborting init. Wrong Net Module type in Module location<no.>.

Meaning: Either the type of network module in this location or the configuration is incorrect.

Action: Insert the correct type of network module or correct the configuration.

Entity Code/Event Code: 8/93

Severity: Warning

Message: Node <FDDI_connector_no.> aborting init. Net Module <no.> diagnostic failed (status=0x<status_code>).

Meaning: The net module identified by Net Module <no.> has failed. The status code indicates the type of failure.

Action: Replace the network module as soon as possible. If you do not have a spare network module now, but you have a spare connector on the existing network module:

- Switch the cable associated with the failed circuit to the spare connector.
- Configure a new, identical circuit.
- Delete the failed circuit from the configuration.

Using the spare connector is a temporary measure. When you return the network module to Wellfleet, be sure to report the <status_code> and the connector associated with the failure.

Info Events

Entity Code/Event Code: 8/26

Severity: Info

Message: Service initializing.

Meaning: FDDI is initializing.

Entity Code/Event Code: 8/27

Severity: Info

Message: Node <FDDI_connector_no.> disabled.

Meaning: FDDI service has been disabled on the specified connector.

Entity Code/Event Code: 8/28

Severity: Info

Message: Node <FDDI_connector_no.> enabled.

Meaning: FDDI service has been enabled on the specified connector.

Entity Code/Event Code: 8/29

Severity: Info

Message: Node <FDDI_connector_no.> configuration deleted.

Meaning: The specified FDDI record has been deleted from the configuration.

Entity Code/Event Code: 8/30

Severity: Info

Message: Node <FDDI_connector_no.> providing LLC1 service.

Meaning: The specified FDDI connection is enabled and providing LLC1 service.

Entity Code/Event Code: 8/31

Severity: Info

Message: Node <FDDI_connector_no.> LLC1 service withdrawn.

Meaning: The specified FDDI connection is no longer providing LLC1 service.

Entity Code/Event Code: 8/32

Severity: Info

Message: Node <FDDI_connector_no.> SMT services available.

Meaning: Station Management (SMT) is enabled on the specified FDDI connection.

Entity Code/Event Code: 8/33

Severity: Info

Message: Node <FDDI_connector_no.> station deinserted (bypass on).

Meaning: Station Management (SMT) has switched the optical bypass to remove the station from the ring.

Entity Code/Event Code: 8/34

Severity: Info

Message: Node <FDDI_connector_no.> station inserted (bypass off).

Meaning: Station Management (SMT) has switched the optical bypass to insert the station into the ring.

Entity Code/Event Code: 8/35

Severity: Info

Message: Node <FDDI_connector_no.> PHY <A|B> connected to neighbor PHY <A|B|S|M>.

Meaning: Station Management (SMT) has placed the specified PHY (A or B) into the Active state and inserted the PHY into the ring.

Entity Code/Event Code: 8/36

Severity: Info

Message: Node <FDDI_connector_no.> link available.

Meaning: The specified FDDI connection is now available for transmission (LLC data frames can now be queued).

Entity Code/Event Code: 8/63

Severity: Info

Message: Node <FDDI_connector_no.> hardware filter enabled.

Meaning: Hardware filtering has been enabled on the specified FDDI connection.

Entity Code/Event Code: 8/74

Severity: Info

Message: Node <FDDI_connector_no.> <entity_type> <action_no.> operation successful.

Meaning: The action for the specified entity succeeded on the FDDI connector shown in the message.

Action: None required.

Entity Code/Event Code: 8/79

Severity: Info

Message: Node <FDDI_connector_no.> LLC1 service unavailable.

Action: This message occurs when you set the LLC Data Enable parameter to Enable, but the router is not connected to an FDDI ring.

FLOP Events

The Floppy Disk Controller service, referred to as the FLOP entity, issues the following event messages. The entity code assigned to FLOP events is 32.

Fault Event

Entity Code/Event Code: 32/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: FLOP experienced a fatal error and is restarting automatically. FLOP will attempt to restart up to five times.

Action: Call Bay Networks Help Desk if FLOP fails to restart.

Warning Events

Entity Code/Event Code: 32/2

Severity: Warning

Message: Floppy operation timed out.

Sector number: <starting_sector_no.> count: <sec> command: <command>
operation: <operation>.

Meaning: The specified operation timed out.

Action: Retry the operation that cause this event. If the problem persists, call Bay Networks Help Desk.

Entity Code/Event Code: 32/3

Severity: Warning

Message: Floppy controller timed out during command issue.

Sector number:<starting_sector_no.> count:<sec> command:<command>
operation:<operation>.

Meaning: An attempt to read/write data from/to the floppy controller did not succeed within the expected time.

Action: Retry the operation. If that fails, use the Technician Interface to enter the **unmount a:** and **mount a:** commands to reset the floppy controller and retry the operation. If the problem persists, call Bay Networks Help Desk.**Entity Code/Event Code: 32/4**

Severity: Warning

Message: Floppy recalibrate operation failed.

Sector number:<starting_sector_no.> count:<sec> command:<command>
operation:<operation>.

Meaning: During initialization of the floppy controller, the recalibrate command did not succeed in moving the read/write head to track number 0.

Action: Use the Technician Interface to enter the **unmount a:** and **mount a:** commands to reinitialize and recalibrate the floppy controller. If the problem persists, call Bay Networks Help Desk.**Entity Code/Event Code: 32/5**

Severity: Warning

Message: Floppy seek operation failed.

Sector number:<starting_sector_no.> count:<sec> command:<command>
operation:<operation>.

Meaning: The seek command did not succeed in moving the read/write head to the specified cylinder.

Action: Retry the operation. If that fails, use the Technician Interface to enter the **unmount a:** and **mount a:** commands to reset the floppy controller and retry the operation. If the problem persists, call Bay Networks Help Desk.

Entity Code/Event Code: 32/6

Severity: Warning

Message: Floppy command was started but terminated abnormally.

Sector number:<starting_sector_no.> count:<sec> command:<command>
operation:<operation>.

Meaning: A command issued to the floppy controller terminated abnormally.

Action: Retry the operation. If that fails, use the Technician Interface to enter the **unmount a:** and **mount a:** commands to reset the floppy controller and retry the operation. If the problem persists, call Bay Networks Help Desk.

Entity Code/Event Code: 32/7

Severity: Warning

Message: Error during floppy DMA operation.

Sector number:<starting_sector_no.> count:<sec> command:<command>
operation:<operation>.

Meaning: An error has occurred within the floppy controller's DMA unit during a read/write from/to the floppy disk.

Action: Retry the operation. If that fails, use the Technician Interface to enter the **unmount a:** and **mount a:** commands to reset the floppy controller and retry the operation. If the problem persists, call Bay Networks Help Desk.

Entity Code/Event Code: 32/8

Severity: Warning

Message: Unknown command issued to floppy controller.

Sector number:<starting_sector_no.> count:<sec> command:<command>
operation:<operation>.

Meaning: The floppy driver has experienced an internal error that has caused it to issue an unknown command to the floppy controller.

Action: Retry the operation. If that fails, use the Technician Interface to enter the **unmount a:** and **mount a:** commands to reset the floppy controller and retry the operation. If the problem persists, call Bay Networks Help Desk.

Entity Code/Event Code: 32/9

Severity: Warning

Message: Floppy media is write protected.

Sector number:<starting_sector_no.> count:<sec> command:<command>
operation:<operation>.

Meaning: An attempt was made to write data to a write-protected floppy disk.

Action: Use a floppy disk with write access when writing data to a disk.

Entity Code/Event Code: 32/10

Severity: Warning

Message: Bad floppy media format found.

Sector number:<starting_sector_no.> count:<sec> command:<command>
operation:<operation>.

Meaning: During read or write access to the disk, the floppy controller encountered a formatting error on the disk.

Action: Retry the operation with a newly formatted disk. If the problem persists, call Bay Networks Help Desk.

Entity Code/Event Code: 32/11

Severity: Warning

Message: Unknown floppy controller type found.

Meaning: The floppy driver software detected an unsupported type of floppy controller.

Action: First, use the Technician Interface to enter the **unmount a:** command. Then reseal the floppy I/O module to ensure a good pin connection. Enter the **mount a:** command to reinitialize the floppy driver. If the problem persists, call Bay Networks Help Desk.

Entity Code/Event Code: 32/12

Severity: Warning

Message: Floppy controller not found.

Meaning: The floppy driver software did not detect the presence of its required hardware (the floppy controller).

Action: First, use the Technician Interface to enter the **unmount a:** command. Then reseal the floppy I/O module to ensure a good pin connection. Enter the **mount a:** command to reinitialize the floppy driver. If the problem persists, call Bay Networks Help Desk.

Entity Code/Event Code: 32/13

Severity: Warning

Message: Floppy hardware reset did not cause interrupt within expected time.

Meaning: If a hardware reset has been issued to a NEC floppy controller, a floppy interrupt is produced. Therefore, the hardware reset was issued, but the interrupt did not occur within the expected time period.

Action: First, use the Technician Interface to enter the **unmount a:** and **mount a:** commands to reinitialize the floppy driver and controller. Then check the log for this event. If the problem persists, call Bay Networks Help Desk.

Entity Code/Event Code: 32/14

Severity: Warning

Message: Unsupported floppy status code:0x<status_code>.

Meaning: The floppy driver is logging an event that has no textual equivalent. Any value may appear as the status code.

Action: Call Bay Networks Help Desk.

Entity Code/Event Code: 32/18

Severity: Warning

Message: Floppy command was issued but never started.
Sector number: <starting_sector_no.> count:<sec>
command:<command> operation:<operation>.

Meaning: The specified instruction to the floppy drive was issued but never started. The requested command could not be executed.

Action: If this error message persists, replace the floppy drive hardware.

Entity Code/Event Code: 32/19

Severity: Warning

Message: RDY signal changed state during floppy execution.
Sector number: <starting_sector_no.> count:<sec>
command:<command> operation:<operation>.

Meaning: The specified instruction to the floppy drive terminated abnormally, because the drive detected a change in its internal state during command execution. The state of the floppy drive hardware changed from Ready to Not Ready.

Action: If this error message persists, replace the floppy drive hardware.

Entity Code/Event Code: 32/20

Severity: Warning

Message: Floppy controller timed out during status readback.
Sector number: <starting_sector_no.> count:<sec>
command:<command> operation:<operation>.

Meaning: An attempt to read data from the floppy controller did not succeed within the expected time.

Action: If this error message persists, replace the floppy drive hardware.

FR Events

The Frame Relay service, referred to as the FR entity, issues the following event messages. The entity code assigned to FR events is 25.

Fault Event

Entity Code/Event Code: 25/10

Severity: Fault

Message: System error, service attempting restart.

Meaning: Frame Relay experienced a fatal error and is restarting automatically. Frame Relay will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if Frame Relay fails to restart.

Warning Events

Entity Code/Event Code: 25/4

Severity: Warning

Message: Service configured but disabled for circuit <*circuit_name*>.

Meaning: Frame Relay is configured on the synchronous interface that supports the specified circuit. However, the Frame Relay DLCMI MIB entry is marked Disabled.

Action: Use the Technician Interface to enable the Frame Relay DLCMI MIB entry to initiate Frame Relay service.

Entity Code/Event Code: 25/5

Severity: Warning

Message: cct <*circuit_no.*>: DLCMI process receiving non-DLCMI messages.

Meaning: The DLCMI is receiving data messages.

Action: Call Bay Networks Help Desk, because this condition is symptomatic of serious problems in driver processing.

Entity Code/Event Code: 25/6

Severity: Warning

Message: Excessive DLCMI errors on cct <ircuit_no.>.

Meaning: Frame Relay has taken down the specified circuit because of excessive errors, as measured by the Error Threshold and Monitored Events configuration parameters.

Action: None may be required, because Frame Relay will monitor the line for quality and attempt to restart. If the condition persists, check the integrity of the physical connection.

Entity Code/Event Code: 25/7

Severity: Warning

Message: cct <ircuit_no.>: Address length invalid of specified address type.

Meaning: Frame Relay found a configuration error in the record for the specified circuit. This message generally indicates that extended (two- or three-byte) addressing has been paired with an address type (for example Q921) that does not support address extension.

Action: Repair the configuration record.

Entity Code/Event Code: 25/8

Severity: Warning

Message: cct <ircuit_no.>: Invalid Address encoding type.

Meaning: Frame Relay found a configuration error in the record for the specified circuit, namely an unknown address type. This message generally indicates that the configuration was done via the Technician Interface, because Site Manager enforces correct typing.

Action: Repair the configuration.

Entity Code/Event Code: 25/9

Severity: Warning

Message: VC <DLCI_no.> configured as <access_mode> but no cct was specified.

Meaning: You used the Technician Interface to create a virtual circuit for hybrid or direct mode, but did not assign the virtual circuit a number.

Action: Provide a number for the virtual circuit.

Entity Code/Event Code: 25/57

Severity: Warning

Message: Service configured but disabled for Line <line_no.> <low_level_index>.

Meaning: Frame Relay is configured on the synchronous interface that supports the specified line. However, the Frame Relay DLCMI MIB entry is marked Disabled. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Action: Enable the Frame Relay DLCMI MIB entry to initiate Frame Relay service.

Entity Code/Event Code: 25/58

Severity: Warning

Message: Invalid Address encoding type <address_type> for Line <line_no.> <low_level_index>.

Meaning: You used the Technician Interface to change the address type to an undefined type. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Action: Change the address type to one of the defined types: Addr Q922;Addr Q922 November; Addr Q922 March.

Entity Code/Event Code: 25/59

Severity: Warning

Message: Line <line_no.> <low_level_index>: DLCMI process receiving non-DLCMI messages.

Meaning: The system cannot identify a status message received from the switch. Either the switch or the router is functioning incorrectly. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Action: Check the physical connection between the router and the switch. If you cannot resolve the problem, contact the switch provider or Bay Networks Help Desk for assistance.

Entity Code/Event Code: 25/115

Severity: Warning

Message: Line <line_no.> <low_level_index>: Address length invalid for specified address type.

Meaning: You have selected an older address format type that does not support extended addressing at the same time that you have selected extended addressing.

Action: Change the address format and address length to a compatible combination, as follows:

Q922 March: Two-byte DLCI only

Q921: Two-byte DLCI only

Q922 Nov: Two-, three-, or four-byte DLCI

Q922 Final: Two-, three-, or four-byte DLCI

Info Events

Entity Code/Event Code: 25/1

Severity: Info

Message: Service initialized for circuit <circuit_no.>.

Meaning: Frame Relay completed initialization on the specified circuit.

Entity Code/Event Code: 25/2

Severity: Info

Message: Service terminating for circuit <circuit_no.>.

Meaning: Frame Relay terminated on the specified circuit.

Entity Code/Event Code: 25/3

Severity: Info

Message: Service recovery for cct <circuit_no.>.

Meaning: DLCMI recovered from an error condition on the specified circuit. After shutting down, DLCMI received a sufficient number of valid polls to verify the present integrity of the line.

Entity Code/Event Code: 25/60

Severity: Info

Message: Service initializing.

Meaning: Frame Relay is initializing on the slot.

Entity Code/Event Code: 25/61

Severity: Info

Message: Service Down.

Meaning: Frame Relay terminated on the slot.

Entity Code/Event Code: 25/62

Severity: Info

Message: Service up on Line *<line_no.>* *<low_level_index>*.

Meaning: Frame Relay completed initialization on the specified line. *<line_no.>* and *<low_level_index>* together uniquely identify the Frame Relay entity.

Entity Code/Event Code: 25/63

Severity: Info

Message: Service down on Line *<line_no.>* *<low_level_index>*.

Meaning: Frame Relay terminated on the specified line. *<line_no.>* and *<low_level_index>* together uniquely identify the Frame Relay entity.

Entity Code/Event Code: 25/64

Severity: Info

Message: Service recovery for Line *<line_no.>* *<low_level_index>*.

Meaning: DLCMI recovered from an error condition on the specified line. After shutting down, DLCMI received a sufficient number of valid polls to verify the present integrity of the line. *<line_no.>* and *<low_level_index>* together uniquely identify the Frame Relay entity.

Entity Code/Event Code: 25/65

Severity: Info

Message: Delayed service down Line <line_no.> <low_level_index>.

Meaning: Frame Relay terminated on the specified line. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Entity Code/Event Code: 25/66

Severity: Info

Message: Multiple active connections for Line <line_no.> <low_level_index>.

Meaning: Frame Relay received notification that the line was up twice from the same line. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Entity Code/Event Code: 25/67

Severity: Info

Message: Line <line_no.> <low_level_index>: VC <circuit_no.> deleted.

Meaning: Frame Relay deleted the specified virtual circuit on the specified line. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Entity Code/Event Code: 25/68

Severity: Info

Message: Line <line_no.> <low_level_index>: VC <circuit_no.> added — <state>.

Meaning: You or DLCMI added the specified virtual circuit to the specified line. <state> specifies the DLCI state as either Active or Inactive. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Entity Code/Event Code: 25/69

Severity: Info

Message: Line <line_no.> <low_level_index>: VC <circuit_no.> is now used as <address_type>.

Meaning: You or DLCMI changed the addressing type (unicast or multicast) for the specified DLCI. LMI is the only DLCMI process that currently supports multicast addressing. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Entity Code/Event Code: 25/70

Severity: Info

Message: Line <line_no.> <low_level_index>: VC <circuit_no.> changed to <state>.

Meaning: You or DLCMI changed the state of the specified virtual circuit to Active, Inactive, or Invalid. LMI may also change the state of XOFF. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Entity Code/Event Code: 25/71

Severity: Info

Message: Line <line_no.> <low_level_index>: VC <circuit_no.> mode changed to <access_mode>.

Meaning: You changed the access mode (group, hybrid, or direct) for the specified virtual circuit. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Entity Code/Event Code: 25/72

Severity: Info

Message: Line <line_no.> <low_level_index>: adding new over old pvc — <DLCI_no.> -<state>.

Meaning: Frame Relay received a status message from DLCMI that notes as new an already existing PVC, identified by <DLCI_no.>. The PVC state is noted as Active or Inactive. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Entity Code/Event Code: 25/73

Severity: Info

Message: Line <line_no.> <low_level_index>: VC <DLCI_no.> has been re-added — <state>.

Meaning: DLCMI added the specified PVC in the specified state. The PVC had previously been listed in the MIB in the Invalid state. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Trace Events

Entity Code/Event Code: 25/11

Severity: Trace

Message: No Frame Relay DLCMI entry found for configured circuit <ircuit_no.>.

Meaning: You used the Technician Interface to configure a synchronous line for Frame Relay, but Frame Relay itself has not been configured.

Action: Configure Frame Relay.

Entity Code/Event Code: 25/12

Severity: Trace

Message: cct <ircuit_no.>: VC <DLCI_no.> deleted.

Meaning: You or DLCMI deleted the specified PVC.

Entity Code/Event Code: 25/13

Severity: Trace

Message: cct <ircuit_no.>: VC <DLCI_no.> added — <state>.

Meaning: The specified DLCI has been added by you or by DLCMI to the specified Frame Relay interface. <state> specifies the DLCI state, Active or Inactive.

Entity Code/Event Code: 25/14

Severity: Trace

Message: cct <ircuit_no.>: VC <DLCI_no.> is now used as <address_type>.

Meaning: You or DLCMI changed the addressing type (Unicast or Multicast) or the specified DLCI.

Entity Code/Event Code: 25/15

Severity: Trace

Message: cct <ircuit_no.>: VC <DLCI_no.> changed to <state>.

Meaning: You or DLCMI changed the state of the specified PVC to Active, Inactive, or Invalid.

Entity Code/Event Code: 25/16

Severity: Trace

Message: cct <circuit_no.>: VC <DLCI_no.> mode changed to <access_mode>.

Meaning: The access mode (group, hybrid, or direct) for the specified circuit has changed.

Entity Code/Event Code: 25/17

Severity: Trace

Message: cct <circuit_no.>: adding new over old pvc — <DLCI_no.> — <state>.

Meaning: Frame Relay received a status message from DLCMI that notes as new an already existing PVC, identified by <DLCI_no.>. The PVC state is noted as Active or Inactive.

Entity Code/Event Code: 25/18

Severity: Trace

Message: cct <circuit_no.>: VC <DLCI_no.> has been re-added — <state>.

Meaning: DLCMI has added the specified PVC in the specified state. The PVC had previously been listed in the MIB in the invalid state.

Entity Code/Event Code: 25/19

Severity: Trace

Message: cct <circuit_no.>: DLCI <DLCI_no.> out of range — invalidated.

Meaning: You added a PVC that is not within the allowable range specified by the addressing format.

Action: None required, because Frame Relay does not honor your request.

Entity Code/Event Code: 25/20

Severity: Trace

Message: cct <circuit_no.>: Can't add signalling DLCI <DLCI_no.>. Entry is deleted.

Meaning: You attempted to add DLCI 0 or 1023 to the specified Frame Relay interface. These DLCIs are reserved for network signaling.

Action: None required, because Frame Relay does not honor your request.

Entity Code/Event Code: 25/21

Severity: Trace

Message: cct <circuit_no.>: Illegal state change to <state> for dlci<DLCI_no.>. Not performed.

Meaning: You used the Technician Interface to change the state of a virtual circuit from active or inactive to xoff, control, or unknown. These are not user-configurable states. This message may also appear if you attempt to change the state of the control virtual circuit.

Entity Code/Event Code: 25/22

Severity: Trace

Message: cct <circuit_no.>: Illegal mode change to <access_mode_no.> for dlci <DLCI_no.>. Not performed.

Meaning: You used the Technician Interface to change the access mode to an undefined mode.

Action: Change the access mode to one of the defined modes: Group, Access, or Hybrid.

Entity Code/Event Code: 25/23

Severity: Trace

Message: cct <circuit_no.>: VC <DLCI_no.> has been initialized — <state>.

Meaning: The specified PVC has initialized in the specified state. Note that this event will be logged only for those PVCs listed in the Frame Relay MIB.

Entity Code/Event Code: 25/24

Severity: Trace

Meaning: cct <circuit_no.>: Unsupported Management Type <type_value>. Frame Relay has found a configuration error in the record for the specified circuit. This message generally indicates that the configuration was done via the Technician Interface, because Site Manager enforces correct typing.

Action: Repair the configuration.

Entity Code/Event Code: 25/25

Severity: Trace

Message: cct <circuit_no.>: Invalid discriminator found — 0x<hex_value>.

Meaning: DLCMI received a packet with an invalid Discriminator field on the specified circuit. The contents of the received file are contained in <hex_value>. Valid Discriminator field contents are 0x9 for LMI, and 0x8 for both Annex A and Annex D.

Action: None required, because Frame Relay discards the frame.

Entity Code/Event Code: 25/26

Severity: Trace

Message: cct <circuit_no.>: Invalid call reference found — 0x<hex_value>.

Meaning: DLCMI received a frame with a non-null call reference value on the specified circuit. <hex_value> contains the first, and possibly only, byte of the invalid call reference value.

Action: None required, because Frame Relay discards the frame.

Entity Code/Event Code: 25/27

Severity: Trace

Message: cct <circuit_no.>: Invalid locking shift found — 0x<hex_value>.

Meaning: Annex A DLCMI received a frame with an invalid locking shift indicator on the specified circuit.

Action: None required, because Frame Relay discards the frame.

Entity Code/Event Code: 25/28

Severity: Trace

Message: cct <circuit_no.>: Status msg error; Bad Report Type or Keep Alive IE.

Meaning: A DLCMI frame was received that contained an error in the Report type or Keep Alive Information Element (IE), or in which they were out of order.

Action: None required, because Frame Relay discards the frame.

Entity Code/Event Code: 25/29

Severity: Trace

Message: cct <circuit_no.>: DLCMI message has invalid type — 0x<hex_value>.

Meaning: The status message received from the switch cannot be identified. Either the switch or the router is functioning incorrectly.

Action: Check the physical connection between the router and the switch. If you cannot resolve the problem, contact the switch provider or Bay Networks Help Desk for assistance.

Entity Code/Event Code: 25/30

Severity: Trace

Message: cct <circuit_no.>: Switch sequence number mismatch.

Meaning: Frame Relay received an unexpected sequence number from the Frame Relay switch.

Action: Probably none is required; Frame Relay may have missed the switch's last transmission or the switch may be resetting.

Entity Code/Event Code: 25/31

Severity: Trace

Message: cct <circuit_no.>: Switch not receiving our seq number.

Meaning: The sequence number that the Frame Relay switch returned as the last received sequence number is not what Frame Relay expected.

Action: Probably none is required; the switch may have missed Frame Relay's last transmission, or the switch may have erred in its sequence number acceptance processing.

Entity Code/Event Code: 25/32

Severity: Trace

Message: cct <circuit_no.>: Switch sequence number mismatch during recovery — accepted.

Meaning: The connection between the router and the switch had been brought down. During recovery of the connection, the sequence numbers of the router and the switch did not correspond. The router accepts the switch's sequence number and then continues with the recovery process.

Entity Code/Event Code: 25/33

Severity: Trace

Message: cct <circuit_no.>: DTE sequence number mismatch.

Meaning: The switch sent a status message with a “last received” sequence number that does not match the last sequence number that the router transmitted.

Action: Check the physical connection between the router and the switch. If you cannot resolve the problem, contact the switch provider for assistance.

Entity Code/Event Code: 25/34

Severity: Trace

Message: cct <circuit_no.>: DTE not receiving our seq number.

Meaning: During bidirectional polling, the switch (acting as the DTE) sent a status enquiry message with a sequence number that does not match the expected value.

Action: Check the physical connection between the router and the switch. If you cannot resolve the problem, contact the switch provider for assistance.

Entity Code/Event Code: 25/35

Severity: Trace

Message: cct <circuit_no.>: Unknown report type 0x<hex_value>.

Meaning: DLCMI received a frame, on the specified circuit, which contains an unknown Report type value, contained in <hex_value>. Supported Report type values are: for LMI and Annex A — 00 (full status) and 01 (sequence number exchange); for Annex D — 00 (full status), 01 (link interface), and 02 (single PVC).

Entity Code/Event Code: 25/36

Severity: Trace

Message: cct <circuit_no.>: Status message not received within time out.

Meaning: The Frame Relay switch failed to respond to a status enquiry transmitted on the specified circuit within the timeout period.

Entity Code/Event Code: 25/37

Severity: Trace

Message: cct <circuit_no.>: PVC IEs out of order.

Meaning: Frame Relay received a full status message on the specified circuit that failed to list PVCs in ascending order, as the standards require.

Action: Frame Relay ignores the full status message.

Entity Code/Event Code: 25/38

Severity: Trace

Message: cct <circuit_no.>: Unknown IE found 0x<hex_value>.

Meaning: DLCMI received an unknown/unsupported Information Element value, contained in <hex_value>, on the specified circuit. Supported IE values are: for LMI and Annex D — 05 (multicast status) and 07 (PVC status); for Annex A — 57 (PVC status).

Action: Investigate a mismatch between DTE/DCE processing.

Entity Code/Event Code: 25/39

Severity: Trace

Message: cct <circuit_no.>: DLCI extract failed for a <DATA_PKT or DLCMI_MSG>.

Meaning: The router received a frame with an improperly formatted address.

Action: Set the address length and address type of the router to correspond to the switch's settings for address length and address type.

Entity Code/Event Code: 25/40

Severity: Trace

Message: cct <circuit_no.>: pkt length error — <short/long>.

Meaning: Frame Relay received a packet on the specified circuit that was either too long or too short.

Entity Code/Event Code: 25/41

Severity: Trace

Message: cct <circuit_no.>: unsupported control (0x<hex_value>).

Meaning: Frame Relay received a data packet whose Control field is other than Unnumbered Information.

Action: Frame Relay discards the packet.

Entity Code/Event Code: 25/42

Severity: Trace

Message: cct <circuit_no.>: Outgoing pkt dropped; no header space.

Meaning: A bridged frame was dropped from the specified circuit because of insufficient space to add Frame Relay encapsulation.

Entity Code/Event Code: 25/43

Severity: Trace

Message: cct <circuit_no.>: No master DLCMI entry for <master_circuit_no.>.

Meaning: The specified hybrid or direct access PVC is unsupported by a MIB entry for the enabling ("master") Frame Relay interface specified by <master_circuit_no.>.

Action: Repair the configuration.

Entity Code/Event Code: 25/45

Severity: Trace

Message: cct <circuit_no.>: DLCI <DLCI_no.> out of range in PVC status IE.

Meaning: The switch has indicated the presence of a PVC with an improperly formatted DLCI.

Action: Contact the switch provider for assistance.

Entity Code/Event Code: 25/46

Severity: Trace

Message: cct <circuit_no.>: IE 0x<hex_value> is too short. Not used.

Meaning: An Information Element in a status message from the switch was truncated.

Action: Contact the switch provider for assistance.

Entity Code/Event Code: 25/55

Severity: Trace

Message: cct <circuit_no.>: STATUS message missing keep alive ie.

Meaning: The router received an improperly formatted status message from the switch.

Action: Contact the switch provider for assistance.

Entity Code/Event Code: 25/56

Severity: Trace

Message: cct <circuit_no.>: Status message too short. Discarded.

Meaning: The router received an improperly formatted status message from the switch.

Action: Contact the switch provider for assistance.

Entity Code/Event Code: 25/74

Severity: Trace

Message: Line <line_no.> <low_level_index>: VC <circuit_no.> has been initialized — <state>.

Meaning: Frame Relay initialized the specified virtual circuit on the specified line. Frame Relay usually produces this message when you configure a PVC (as opposed to when DLCMI creates a PVC). <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Entity Code/Event Code: 25/75

Severity: Trace

Message: Line <line_no.> <low_level_index>: pkt length error — <short/long>.

Meaning: Frame Relay received a packet on the specified line that was either too long or too short. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Entity Code/Event Code: 25/76

Severity: Trace

Message: Line <line_no.> <low_level_index>: DLCI <DLCI_no.> out of range -- invalidated.

Meaning: The switch identified a PVC with an improperly formatted DLCI, or you tried to add a PVC with an improperly formatted DLCI. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Action: Check the DLCI to make sure it matches the value specified by the switch provider.

Entity Code/Event Code: 25/77

Severity: Trace

Message: Line <line_no.> <low_level_index>: Unsupported Management Type <management_type>.

Meaning: You used the Technician Interface to specify an undefined management type. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Action: Specify a valid management type: ANSI Technician Interface 617D; DLCMI none; Rev 1 LMI; CCITT Annex A.

Entity Code/Event Code: 25/78

Severity: Trace

Message: Received short frame on Line <line_no.> <low_level_index>.

Meaning: The router received a frame that was too short on the specified line. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Entity Code/Event Code: 25/79

Severity: Trace

Message: Unsupported control (0x<hex_value>) on Line <line_no.> <low_level_index>.

Meaning: Frame Relay received a data packet whose Control field was other than Unnumbered Information. Frame Relay discards the packet. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Entity Code/Event Code: 25/80

Severity: Trace

Message: DLCI extract failed for a DATA_PKT on Line <line_no.> <low_level_index>.

Meaning: The router received a frame on the specified line with an improperly formatted address. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Action: Set the address length and address type of the router to correspond to the switch's settings for address length and address type.

Entity Code/Event Code: 25/81

Severity: Trace

Message: DLCI extract failed for a DLCMI_MSG for Line <line_no.> <low_level_index>.

Meaning: The router received a frame on the specified line with an improperly formatted address. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Action: Set the address length and address type of the router to correspond to the switch's settings for address length and address type.

Entity Code/Event Code: 25/82

Severity: Trace

Message: No Frame Relay DLCMI entry found for configured Line <line_no.> <low_level_index>.

Meaning: You configured a synchronous line for Frame Relay, but Frame Relay itself has not been configured. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Action: Configure Frame Relay.

Entity Code/Event Code: 25/83

Severity: Trace

Message: Line <line_no.> <low_level_index>: Status message not received within time out.

Meaning: The router did not receive a status message from the switch within the timeout period. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Action: Contact the switch provider for assistance. Make sure the Polling Interval timer is set to an appropriate value.

Entity Code/Event Code: 25/84

Severity: Trace

Message: Line <line_no.> <low_level_index>: Invalid discriminator found — 0x<hex_value>.

Meaning: DLCMI received a packet with an invalid Discriminator field. The contents of the Received field are contained in <hex_value>. Valid Discriminator field contents are 0x9 for LMI and 0x8 for both Annex A and Annex D. Frame Relay discards the frame. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Entity Code/Event Code: 25/85

Severity: Trace

Message: Line <line_no.> <low_level_index>: Invalid call reference found — 0x<hex_value>.

Meaning: DLCMI received a frame with a non-null call reference value on the specified line. <hex_value> contains the first, and possibly only, byte of the invalid call reference value. Frame Relay discards the frame. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Entity Code/Event Code: 25/86

Severity: Trace

Message: Line <line_no.> <low_level_index>: Invalid locking shift found — 0x<hex_value>.

Meaning: Annex A DLCMI received a frame with an invalid locking shift indicator on the specified line. Frame Relay discards the frame. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Entity Code/Event Code: 25/87

Severity: Trace

Message: Line <line_no.> <low_level_index>: Status enquiry msg error; Bad Report Type or Keep Alive IE.

Meaning: Frame Relay received a DLCMI frame that contained either an error in the Report type or Keep Alive Information Element, or in which those two elements were out of order. Frame Relay discards the frame. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Entity Code/Event Code: 25/88

Severity: Trace

Message: Line <line_no.> <low_level_index>: DTE sequence number mismatch.

Meaning: The switch acting as DTE sent a status enquiry message with a “last received” sequence number that does not match the last sequence number that the router transmitted. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Action: Check the physical connection between the router and the switch. If you cannot resolve the problem, contact the switch provider for assistance.

Entity Code/Event Code: 25/89

Severity: Trace

Message: Line <line_no.> <low_level_index>: DTE not receiving our seq number.

Meaning: During bidirectional polling, the switch (acting as DTE) sent a status enquiry message with a sequence number that does not match the expected value. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Action: Check the physical connection between the router and the switch. If you cannot resolve the problem, contact the switch provider for assistance.

Entity Code/Event Code: 25/90

Severity: Trace

Message: Line <line_no.> <low_level_index>: Status message too short. Discarded.

Meaning: The router received an improperly formatted status message from the switch. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Action: Contact the switch provider for assistance.

Entity Code/Event Code: 25/91

Severity: Trace

Message: Line <line_no.> <low_level_index>: Unknown IE found 0x<hex_value>.

Meaning: An Information Element in a status message from the switch could not be identified. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Action: Contact the switch provider for assistance.

Entity Code/Event Code: 25/92

Severity: Trace

Message: Line <line_no.> <low_level_index>: STATUS message missing keep alive ie.

Meaning: The router received an improperly formatted status message from the switch. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Action: Contact the switch provider for assistance.

Entity Code/Event Code: 25/93

Severity: Trace

Message: Line <line_no.> <low_level_index>: IE 0x<hex_value> is too short. Not used.

Meaning: An Information Element in a status message from the switch was truncated. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Action: Frame Relay ignores the status message. Contact the switch provider for assistance.

Entity Code/Event Code: 25/94

Severity: Trace

Message: Line <line_no.> <low_level_index>: Switch sequence number mismatch during recovery — accepted.

Meaning: The connection between the router and the switch had been brought down. During recovery of the connection, the sequence numbers of the router and the switch did not correspond. The router accepts the switch's sequence number and then continues with the recovery process. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Entity Code/Event Code: 25/95

Severity: Trace

Message: Line <line_no.> <low_level_index>: Switch sequence number mismatch.

Meaning: The switch sent a status message with a sequence number that does not match the sequence number that the router expected. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Action: Check the physical connection between the router and the switch. If you cannot resolve the problem, contact the switch provider for assistance.

Entity Code/Event Code: 25/96

Severity: Trace

Message: Line <line_no.> <low_level_index>: Switch not receiving our seq number.

Meaning: The switch sent a status message with a “last received” sequence number that does not match the last sequence number that the router sent. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Action: Check the physical connection between the router and the switch. If you cannot resolve the problem, contact the switch provider for assistance.

Entity Code/Event Code: 25/97

Severity: Trace

Message: Line <line_no.> <low_level_index>: PVC IEs out of order.

Meaning: Frame Relay received a full status message on the specified line that failed to list PVCs in ascending order, as required by the standards. Frame Relay ignores the full status message. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Entity Code/Event Code: 25/98

Severity: Trace

Message: Line <line_no.> <low_level_index>: Unknown report type 0x<hex_value>.

Meaning: DLCMI received a frame on the specified line that contains an unknown Report Type value, contained in <hex_value>. Supported Report Type values are as follows: for Annex A-00 (full status), 01 (link integrity), and for Annex D and Annex A, 02 (single PVC). <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Entity Code/Event Code: 25/99

Severity: Trace

Message: Line <line_no.> <low_level_index>: DLCMI message has invalid type — 0x<hex_value>.

Meaning: Frame Relay cannot identify the status message received from the switch. Either the switch or the router is functioning incorrectly. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Action: Check the physical connection between the router and the switch. If you cannot resolve the problem, contact the switch provider or Bay Networks Help Desk for assistance.

Entity Code/Event Code: 25/100

Severity: Trace

Message: Line <line_no.> <low_level_index>: DLCI <DLCI_no.> out of range in PVC status IE.

Meaning: The switch has indicated the presence of a PVC with an improperly formatted DLCI. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Action: Contact the switch provider for assistance.

Entity Code/Event Code: 25/101

Severity: Trace

Message: Line <line_no.> <low_level_index>: Illegal mode change to <access_mode> for dlcI <DLCI_no.>.

Meaning: You used the Technician Interface to change the access mode to an undefined mode. <line_no.> and <low_level_index> together uniquely identify the Frame Relay entity.

Action: Change the access mode to one of the defined modes: group, access, or hybrid.

Entity Code/Event Code: 25/102

Severity: Trace

Message: Line <line_no.> <low_level_index>: Illegal state change to <state> for dlcI <DLCI_no.>.

Meaning: You used the Technician Interface to attempt to change the state of a PVC to an unknown or illegal state. Legal states are Invalid, Active, or Inactive. Other states are possible through LMI operation, but you cannot set them.

Action: Change the state to one of the valid values.

Entity Code/Event Code: 25/114

Severity: Trace

Message: Line <line_no.> <low_level_index>: Can't add signalling DLCI <DLCI_no.>. Entry is deleted.

Meaning: You used the Technician Interface to attempt to add a VC with a DLCI that is reserved for signaling. DLCI 0 and 1023 are reserved for signaling. <DLCI_no.> is the number of the DLCI you tried to add.

Action: Add the VC again, with a valid DLCI value.

Entity Code/Event Code: 25/116

Severity: Trace

Message: Line <line_no.> <low_level_index>: VC <DLCI_no.> is experiencing congestion.

Meaning: According to the congestion control parameters you have set, the VC indicated by <DLCI_no.> is experiencing congestion. Congestion control procedures are now in effect for the specified VC.

Entity Code/Event Code: 25/117

Severity: Trace

Message: Line <line_no.> <low_level_index>: VC <DLCI_no.> recovered from congestion.

Meaning: According to the congestion control parameters you have set, the congestion on the VC indicated by <DLCI_no.> has cleared. Congestion control procedures are now turned off.

Entity Code/Event Code: 25/118

Severity: Trace

Message: Line <line_no.> <low_level_index>: IE 0x<hex_value> has bad length <integer value>.

Meaning: A message received from the switch has an Information Element with an invalid length.

Action: If this condition persists, contact the service provider to check for errors.

Entity Code/Event Code: 25/119

Severity: Trace

Message: Line <line_no.> <low_level_index>: Invalid extension bit set.

Meaning: An extension bit in the Frame Relay header is improperly set for a frame received from the switch.

Action: If this condition persists, contact the service provider to check for errors.

FS Events

The File System service, referred to as the FS entity, issues the following event messages. The entity code assigned to FS events is 64.

Fault Event

Entity Code/Event Code: 1/64

Severity: Fault

Message: System error, service attempting restart

Meaning: File System experienced a fatal error and is restarting automatically. File System will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call the Bay Networks Help Desk if File System fails to restart.

FTP Events

The FTP service, referred to as the DVMRP entity, issues the following event messages. The entity code assigned to FTP events is 88.

Fault Event

Entity Code/Event Code: 88/1

Severity: Fault

Message: System Error, service attempting restart

Meaning: The router experienced the fatal error *<fatal_error_message>* and is restarting automatically. The router will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if the router fails to restart.

Entity Code/Event Code: 88/2

Severity: Fault

Message: Error in opening a TCP connection for listening

Meaning: The FTP server failed to open a TCP connection to listen to incoming connection requests.

Action: Verify the configuration; check the log file.

Entity Code/Event Code: 88/3

Severity: Fault

Message: Error while receiving a TCP message buffer

Meaning: The FTP server failed while processing the received TCP messages in the IP data stream.

Action: Verify the configuration; check the log file.

Entity Code/Event Code: 88/4

Severity: Fault

Message: Error %d in transmitting TCP buffer to the client

Meaning: The FTP server failed to transmit the TCP data to the client.

Action: Verify the configuration; check the log file.

Information Events

Entity Code/Event Code: 88/5

Severity: Information

Message: wfFTP is initializing.

Meaning: The FTP subsystem is loaded and initialized.

Entity Code/Event Code: 88/6

Severity: Information

Message: FTP server daemon up/listening

Meaning: The FTP server has opened a connection to listen to the incoming client's connect requests.

Entity Code/Event Code: 88/7

Severity: Information

Message: FTP server daemon rejected the connection request.

Meaning: The FTP server has rejected the client's connection request because there are too many existing connections.

Entity Code/Event Code: 88/8

Severity: Information

Message: Successful login from remote client %d.%d.%d.%d, for %s account

Meaning: The FTP server successfully logged in a client from the specified address for the specified account.

Entity Code/Event Code: 88/29

Severity: Information

Message: WfFTP Data Server <no.> is initializing

Meaning: The FTP server on the router is initializing

Entity Code/Event Code: 88/30

Severity: Information

Message: WfFTP DATARECV gate <no.> terminated abnormally

Meaning: The FTP receive gate aborted.

Entity Code/Event Code: 88/31

Severity: Information

Message: WfFTP DATA XMIT gate <no.> terminated abnormally.

Meaning: The FTP transmit gate aborted.

Entity Code/Event Code: 88/56

Severity: Information

Message: <no.> events lost on slot <no.> because of log wrap during log aggregation.

Meaning: The volume of events has caused the event log to be overwritten.

Trace Events

Entity Code/Event Code: 88/9

Severity: Trace

Message: FTP client logged in with %s account attempted to write on %s.

Meaning: An FTP client logged into the specified account.

Action: Use this message to determine if an access violation has occurred.

Entity Code/Event Code: 88/10

Severity: Trace

Message: FTP default volume — %d — is invalid.

Meaning: The client has specified a volume that is not valid.

Action: Use this message to determine the invalid volume number.

GAME Events

The Gate Access Management Entity service, referred to as the GAME entity, issues the following event messages. The entity code assigned to GAME events is 5.

Fault Events

Entity Code/Event Code: 5/1

Severity: Fault

Message: System error, service attempting restart

Meaning: An entity on a slot experienced a fatal error and is restarting automatically.

Action: Verify that the configuration is correct. Examine the log for other events indicating the cause of the error. Call Bay Networks Help Desk if the event is unexpected or if the entity fails to restart.

Entity Code/Event Code: 5/2

Severity: Fault

Message: Service terminated due to excessive failures

Meaning: An entity experienced an excessive number of fault events within a short period of time. GAME will not restart the entity.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk.

Entity Code/Event Code: 5/3

Severity: Fault

Message: Out of memory

Meaning: GAME ran out of memory. The slot restarts automatically.

Action: Call Bay Networks Help Desk.

Entity Code/Event Code: 5/4

Severity: Fault

Message: System error, all services attempting restart

Meaning: GAME detected a fatal system error. All configured entities restart automatically when the condition clears.

Action: Hot swap the board if the restart does not succeed within one minute.

Entity Code/Event Code: 5/59

Severity: Fault

Message: System restart

Meaning: GAME detected a fatal system error. GAME and the other entities restart automatically when the condition clears.

Action: Hot swap the board if the restart does not succeed within one minute.

Entity Code/Event Code: 5/80

Severity: Fault

Message: Insufficient memory to continue => GAME restarts

Meaning: GAME ran out of memory. The slot restarts automatically.

Action: Call Bay Networks Help Desk.

Entity Code/Event Code: 5/111

Severity: Fault

Message: Scheduler exited due to orphaned buffer. Last gate gid = <gate_ID> @
<activation_address> buf=<buffer_address>

Meaning: The internal scheduler stopped because of a programming error. The scheduler automatically restarts. No services stop.

Action: Call Bay Networks Help Desk to report the error.

Entity Code/Event Code: 5/123

Severity: Fault

Message: Watchdog expired, service terminating

Meaning: A watchdog facility times the continuous execution of each software task (and GAME). After a preset time (usually 3 to 6 seconds), the task is terminated and, typically, subsequently restarted.

Action: Call Bay Networks Help Desk.

Entity Code/Event Code: 5/126

Severity: Fault

Message: System fan module failure, one or more fans not operating properly

Meaning: One or more of the fans in the BCN is operating at a slower speed than it should, or has stopped.

Action: Hot swap the fan tray immediately to prevent overheating.

Entity Code/Event Code: 5/127

Severity: Fault

Message: System temperature has risen into cautionary range

Meaning: The BCN is overheating.

Action: View the event log or trap monitor. Hot swap the fan tray immediately to prevent overheating if a System fan module failure event was generated. Return the fan tray to Bay Networks for service.

Entity Code/Event Code: 5/128

Severity: Fault

Message: Power Supply <power_module_slot_no.> has failed

Meaning: The 620-watt hot-swap power module in the slot indicated is not operational. The power module slots are numbered 1 through 4 from the bottom of the BCN to the top. This event is generated by the BCN only.

Action: Hot swap the power module. Return the power module to Bay Networks for service.

Entity Code/Event Code: 5/134

Severity: Fault

Message: Tag violation <device_code> (0=RFR/1=BB/2=CPU/3=LNK) accessed <protection_level_no.> (0=NA/1=RW/2=RO/3=RE)

Meaning: The memory access cycle indicated by the <device_code> violated the memory protection level indicated by the <protection_level_no.>. The operating system running on the slot reboots itself after generating this message.

The <device_code> is one of the following: 0 = memory refresh, 1 = backbone, 2 = CPU software, and 3 = link module.

The <protection_level_no.> is one of the following: 0 = not accessible, 1 = read/write, 2 = read only, and 3 = read/execute.

Action: Report the event to Bay Networks Help Desk.

Entity Code/Event Code: 5/135

Severity: Fault

Message: Parity violation detected, fatal error

Meaning: GAME detected a hardware memory parity error. The operating system running on the slot reboots itself after generating this message. Repeated occurrences of this event indicate a bad processor board.

Action: Report the event to Bay Networks Help Desk if it occurs repeatedly.

Entity Code/Event Code: 5/162

Severity: Fault

Message: RESET system call attempts to restart

Meaning: GAME is attempting to reset the slot due to an operator action.

Entity Code/Event Code: 5/163

Severity: Fault

Message: Error in *<source_code_filename>* at line *<line_no.>*

Meaning: GAME is verifying systemwide and application-specific databases. GAME reports any unrepairable discrepancies using this event. Typically, a gate detecting an error is terminated and subsequently restarted, but errors detected in systemwide databases cause GAME to restart.

Action: Call Bay Networks Help Desk.

Entity Code/Event Code: 5/164

Severity: Fault

Message: Error: exception vector *<vector_no.>* — *<description>*

Meaning: GAME detected an unexpected hardware interrupt, typically a bus error.

Action: Call Bay Networks Help Desk.

Entity Code/Event Code: 5/217

Severity: Fault

Message: Parity violation *<source_identifier_no.>* detected

Meaning: GAME detected a parity violation from one of the following sources:

- A link module (any)
- The router backplane
- The FRE2 CPU
- Invalid (GAME ignores this parity violation)

Action: Call Bay Networks Help Desk.

Entity Code/Event Code: 5/222

Severity: Fault

Message: Tag violation CPU accessed <protection_level_no.> (0=NA/1RW/2=RO...) memory at addr <hex_value>

Meaning: The CPU has accessed memory that it's not supposed to access. The operating system reboots itself after generating this message.

Action: Call Bay Networks Help Desk.

Entity Code/Event Code: 5/223

Severity: Fault

Message: Tag violation NETMOD = <network_module_ID> accessed <protection_level_no.> (0=NA/1RW/2=RO...) memory at addr <hex_value>

Meaning: The network module specified by <network_module_ID> accessed memory that it's not supposed to access. The operating system running on the slot reboots itself after generating this message.

Action: Call Bay Networks Help Desk.

Entity Code/Event Code: 5/224

Severity: Fault

Message: Parity/Slave violation detected, add <hex_value> by NETMOD <network_module_ID> (0=CPU), fatal error.

Meaning: GAME detected a parity error in memory at addr <hex_value> while it was being accessed by the network module specified by <network_module_ID>. The operating system running on the module reboots itself after generating this message.

Action: Report the event to Bay Networks Help Desk if it occurs repeatedly.

Entity Code/Event Code: 5/225

Severity: Fault

Message: Nonexistent memory addr= <hex_value> accessed by NETMOD <network_module_ID> (0=CPU), fatal error. The operating system running on the slot reboots itself after generating this message.

Meaning: An access was made to memory that does not exist.

Action: Call Bay Networks Help Desk.

Entity Code/Event Code: 5/226

Severity: Fault

Message: Unknown Mem Error reg + <hex_value> accessed by NETMOD <network_module_ID> (0=CPU), fatal error.

Meaning: For unknown reasons, a memory error occurred. The operating system running on the slot reboots itself after generating this message.

Action: Call Bay Networks Help Desk.

Entity Code/Event Code: 5/231

Severity: Fault

Message: Backbone cable integrity lost, check cables, terminators and power switches

Meaning: One of the cables that makes up the ASN's backbone has been disconnected, or one of the ASNs has been powered off.

Action: Check the cables, terminators and power switches. If all the cables and terminators are intact and all the power switches are on, call Bay Networks Help Desk.

Warning Events

Entity Code/Event Code: 5/7

Severity: Warning

Message: BackBone <PPX_rail_no.> became disconnected

Meaning: The specified PPX (Parallel Packet Express) rail (channel) is no longer in service. This event occurs as follows:

- ❑ When a single processor (slot) reports one or more of these events, it may have run out of buffer space. The “BackBone <PPX_rail_no.> became re-connected” Info event message indicates that the condition is cleared. If the condition does not clear, as indicated by this message, within several seconds, the error may have been caused by a hardware failure. Hot swap the FRE module on the slot indicated.
- ❑ When all processors report this event for both Backbones 0 and 1, and do not report “BackBone <PPX_rail_no.> became re-connected” for both backbones within several seconds, the event indicates that an SRM-F failed or has been removed. Replace the SRM-F.
- ❑ When all processors report this event for Backbone 0 or 1 (but not both), and do not report “BackBone <PPX_rail_no.> became re-connected” within several seconds, the event indicates an SRM-F hardware error occurred. Hot swap the SRM-F.
- ❑ When all processors report this event for both Backbones 2 and 3, and do not report “BackBone <PPX_rail_no.> became re-connected” for both backbones within several seconds, the event indicates that an SRM-L failed or has been removed. Replace the SRM-L.
- ❑ When all processors report this event for Backbone 2 or 3 (but not both), and do not report “BackBone <PPX_rail_no.> became re-connected” within several seconds, the event indicates that an SRM-L hardware error occurred. Hot swap the SRM-L.

Action: Refer to the items listed for the correct action to take.

Entity Code/Event Code: 5/8

Severity: Warning

Message: Slot <slot_no.> became disconnected

Meaning: The specified slot is no longer in service. This event occurs as follows:

- ❑ When all surviving processors report this event for the same slot, the event indicates that you issued the **reset** <slot_no.> command, you hot swapped a FRE module on the slot indicated, or a total GAME failure occurred on the slot indicated.
- ❑ The “Slot <slot_no.> became re-connected” Info event occurs after the FRE processor boots and initiates entities. Hot swap the FRE module if it fails to re-connect within one minute.
- ❑ When all surviving processors report this event for the same slot, and the “Slot <slot_no.> became re-connected” Info event does not occur, the event indicates that a FRE module failed or has been removed. Replace the FRE module.

Action: Refer to the items listed for the correct action to take.

Entity Code/Event Code: 5/51

Severity: Warning

Message: bad fwd receive buffer checksum

Meaning: GAME received a corrupted buffer over the backbone. The receiving slot drops the corrupted buffer. When the sending slot does not receive an acknowledgment for the buffer, it retransmits it.

Action: Report the event to Bay Networks Help Desk if it occurs repeatedly.

Entity Code/Event Code: 5/211

Severity: Warning

Message: KERNEL CONFIGURATION ERROR: *<error message>*

Meaning: An attempt to reconfigure a GAME kernel parameter failed due to an illegal value.

Action: Reconfigure the parameter with a proper value.

Entity Code/Event Code: 5/212

Severity: Warning

Message: Configured global memory size *<kbytes>* and NOVRAM value *<kbytes>* conflict.

Meaning: The slot's global memory size found in NOVRAM does not match the value found in the configuration file used to boot the slot.

Action: If the requested global memory size is the value found in the configuration file, reset the global memory size in NOVRAM to that value and restart the slot.

If the NOVRAM value is correct, the slot is already running GAME with the requested global memory size. To remove this message from future reboots, delete the kernel configuration object for the slot in question, save the new configuration to a file, and use the new file to reboot the system.

Entity Code/Event Code: 5/218

Severity: Warning

Message: Errors reading RTC – date/time may be incorrect.

Meaning: GAME detected an error while reading the router's Real Time Clock (RTC). This affects only time-stamping functions of the router software. For example, the time stamp indicated on event log entries may be incorrect. The router otherwise continues to function normally.

Action: Reset the router's date and time. If this action fails to correct the problem, or if the problem recurs when you power the router off, then on, call Bay Networks Help Desk.

Entity Code/Event Code: 5/227

Severity: Warning

Message: Bad checksum hsn_prom image. addr = <hex_value> expected <checksum_value_1> actual <checksum_value_2>

Meaning: GAME detected a bad checksum value on the History Serial Number (HSN) PROM.

Action: Call Bay Networks Help Desk.

Info Events

Entity Code/Event Code: 5/9

Severity: Info

Message: BackBone <PPX_rail_no.> became re-connected

Meaning: The specified PPX (Parallel Packet Express) rail (channel) is in service.

Entity Code/Event Code: 5/10

Severity: Info

Message: Slot <slot_no.> became re-connected

Meaning: The specified slot is in service.

Entity Code/Event Code: 5/11

Severity: Info

Message: Starting image <release_ID> <time_stamp>

Meaning: GAME is initializing with the image specified by the release ID at the date and time indicated.

Entity Code/Event Code: 5/129

Severity: Info

Message: System fans operating properly

Meaning: The fans in the BCN are operating within normal limits.

Entity Code/Event Code: 5/130

Severity: Info

Message: System temperature is in normal operating range

Meaning: The temperature of the BCN is normal.

Entity Code/Event Code: 5/131

Severity: Info

Message: Power Supply <power_module_slot_no.> is operational

Meaning: The 620-watt hot swap power module in the slot indicated is operational. The power module slots are numbered 1 through 4 from the bottom of the BCN to the top.

Entity Code/Event Code: 5/132

Severity: Info

Message: Power Supply <power_module_slot_no.> has been removed

Meaning: The power module slot indicated is not equipped with a 620-watt hot-swap power module. The power module slots are numbered 1 through 4 from the bottom of the BCN to the top. This event is generated by the BCN only.

Trace Events

All trace events issued by GAME are generated for Bay Networks internal use only in response to entity or GAME restarts.

HSSI Events

The High Speed Serial Interface (HSSI) issues the following event messages. The entity code assigned to FDDI events is 27.

Fault Event

Entity Code/Event Code: 27/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The HSSI driver experienced a fatal error and is restarting automatically. The driver will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call the Bay Networks Help Desk if the HSSI driver fails to restart.

Warning Events

Entity Code/Event Code: 27/2

Severity: Warning

Message: Connector HSSI<*connector_no.*> transmitter timeout.

Meaning: HSSI has not received a BofL (“Breath of Life”) transmission on the connector identified by <*connector_no.*> within the time specified by the BofL timeout timer.

Action: None may be required, because HSSI will attempt to restart the connection. If you can’t restart the connection, verify the integrity of the remote peer and configuration of the remote peer for BofL.

Entity Code/Event Code: 27/3

Severity: Warning

Message: Connector HSSI<*connector_no.*> receiver timeout.

Meaning: HSSI has not received a response to a BofL transmission (sent over the connector identified by <*connector_no.*>) within the time specified by the BofL timeout timer.

Action: None may be required, because HSSI will attempt to restart the connection. If you can't restart the connection, verify the integrity of the remote peer and configuration of the remote peer for BofL.

Entity Code/Event Code: 27/4

Severity: Warning

Message: Connector HSSI<*connector_no.*> Data Comms Equipment (DCE) unavailable (lost CA).

Meaning: The DCE-generated CA (Communications Equipment Available) signal has been lost.

Action: Verify the cable connection and the cable integrity. Verify the integrity of the associated DTE equipment.

Entity Code/Event Code: 27/5

Severity: Warning

Message: Connector HSSI<*connector_no.*> diagnostic failed.

Meaning: The HSSI connector identified by <*connector_no.*> failed powerup diagnostics and has been disabled.

Action: Verify the integrity of the HSSI link module.

Entity Code/Event Code: 27/6

Severity: Warning

Message: Connector HSSI<*connector_no.*> out of range.

Meaning: The HSSI connector identified by <*connector_no.*> is invalid (a value other than 1) and will be ignored.

Action: Modify the HSSI configuration to reflect a connector number of 1.

Note: This message should not be seen if HSSI has been configured using Site Manager, because Site Manager rejects invalid connector identification.

Entity Code/Event Code: 27/7

Severity: Warning

Message: Connector HSSI<connector_no.> not verified with diagnostic.

Meaning: The HSSI connector identified by <connector_no.> has been placed in service. However, powerup diagnostics aborted and did not verify the integrity of the connector.

Action: Rerun powerup diagnostics if you wish to ensure the integrity of the HSSI link module.

Info Events

Entity Code/Event Code: 27/8

Severity: Info

Message: Service initializing.

Meaning: HSSI is initializing.

Entity Code/Event Code: 27/9

Severity: Info

Message: Connector HSSI<connector_no.> disabled.

Meaning: The HSSI connector identified by <connector_no.> has been disabled.

Entity Code/Event Code: 27/10

Severity: Info

Message: Connector HSSI<connector_no.> enabled.

Meaning: The HSSI connector identified by <connector_no.> has been enabled.

Entity Code/Event Code: 27/11

Severity: Info

Message: Connector HSSI<connector_no.> configuration deleted.

Meaning: The HSSI record for the connector identified by <connector_no.> has been deleted.

Entity Code/Event Code: 27/12

Severity: Info

Message: Connector HSSI<*connector_no.*> providing LLC1 service.Meaning: The HSSI connector identified by <*connector_no.*> is enabled and providing LLC1 service.**Entity Code/Event Code: 27/13**

Severity: Info

Message: Connector HSSI<*connector_no.*> LLC1 service withdrawn.Meaning: The HSSI connector identified by <*connector_no.*> has ceased providing LLC1 service.

HWF Events

The Hardware Filter service, referred to as the HWF entity, issues the following event messages. The entity code assigned to HWF events is 37.

Warning Events

Entity Code/Event Code: 37/5

Severity: Warning

Message: Hardware filter device not present on module.

Meaning: The link module on the designated slot does not have the appropriate hardware filter devices. This event occurs when you configure hardware filters on a module that supports this feature, and the optional devices are not present. The FDDI and QENET link modules can be adapted with an optional daughterboard that contains the hardware filter devices.

Action: Attach the hardware filter daughterboard to the link module on the designated slot. Alternatively, do not configure hardware filters on the designated slot.

Entity Code/Event Code: 37/6

Severity: Warning

Message: Invalid module type to support hardware filter.

Meaning: Hardware filtering cannot be configured on the link module in the designated slot.

Action: Change the configuration so that a link module that will be supported for hardware filters is present on the designated slot. Alternatively, do not configure hardware filters on the designated slot.

Entity Code/Event Code: 37/21

Severity: Warning

Message: Hardware filter table full on line <line_no.>.

Meaning: The maximum number of entries in the hardware filter table has been reached for the specified line. The hardware filter device will continue to perform filtering; however, no new entries will be added.

Action: Disable the bridge on the circuit that is full, or disable the bridge or line on another circuit on the same link module.

Info Events

Entity Code/Event Code: 37/1

Severity: Info

Message: Driver enabled

Meaning: HWF has been enabled on a particular slot.

Entity Code/Event Code: 37/2

Severity: Info

Message: Driver disabled

Meaning: HWF has been disabled on a particular slot.

Entity Code/Event Code: 37/14

Severity: Info

Message: Initialization complete.

Meaning: HWF completed initialization and is available to perform filtering functions.

Entity Code/Event Code: 37/19

Severity: Info

Message: Enabled hardware filter on line <line_no.>.

Meaning: HWF enabled the hardware filter device on a designated line and filtering will be performed.

Entity Code/Event Code: 37/20

Severity: Info

Message: Disabled hardware filter on line <line_no.>.

Meaning: HWF disabled the hardware filter device on a designated line. Filtering will no longer be performed by the hardware filter device on a designated line.

Entity Code/Event Code: 37/26

Severity: Info

Message: Configuration deleted.

Action: HWF removed information from the MIB for the instance of the HWF driver on a designated slot and terminated.

IGMP Events

The IGMP service, referred to as the IGMP entity, issues the following event messages. The entity code assigned to IGMP events is 83.

Fault Events

Entity Code/Event Code: 83/1

Severity: Fault

Message: System Error, service attempting restart

Meaning: The router experienced the fatal error *<fatal_error_message>* and is restarting automatically. The router will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if the router fails to restart.

Entity Code/Event Code: 83/2

Severity: Fault

Message: IGMP RTBL Delete failure

Meaning: IGMP's internal structures are inconsistent.

Action: Call Bay Networks Help Desk if the router fails to start.

Information Events

Entity Code/Event Code: 83/3

Severity: Info

Message: IGMP circuit gate %d; group %d.%d.%d.%d has timed out.

Meaning: This multicast group is no longer active on this circuit.

Entity Code/Event Code: 83/4

Severity: Info

Message: IGMP circuit gate %d is UP with IP address %d.%d.%d.%d.

Meaning: IGMP is up on this circuit.

Entity Code/Event Code: 83/5

Severity: Info

Message: IGMP circuit gate %d with IP address %d.%d.%d.%d is down.

Meaning: IGMP is down on this circuit.

Entity Code/Event Code: 83/6

Severity: Info

Message: IGMP circuit gate %d notes IP address %d.%d.%d.%d.

Meaning: IGMP recognizes this new IP address on the multinetted circuit.

Entity Code/Event Code: 83/7

Severity: Info

Message: IGMP circuit gate %d has new IP address %d.%d.%d.%d.

Meaning: IGMP will use this new IP address (only for multinet)

Entity Code/Event Code: 83/8

Severity: Info

Message: Interface %d.%d.%d.%d up on circuit %d

Meaning: IGMP has recognized that this IP interface is up.

Entity Code/Event Code: 83/9

Severity: Info

Message: Interface %d.%d.%d.%d down on circuit %d

Meaning: IGMP has recognized that this IP interface is down.

Entity Code/Event Code: 83/10

Severity: Info

Message: Protocol initializing

Meaning: IGMP is initializing

Entity Code/Event Code: 83/11

Severity: Info

Message: Protocol terminating

Meaning: IGMP is terminating.

IP Events

The Internet Protocol service, referred to as the IP entity, issues the following event messages. The entity code assigned to IP events is 2.

Fault Event

Entity Code/Event Code: 2/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: IP experienced a fatal error and is restarting automatically. IP will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if IP fails to restart.

Warning Events

Entity Code/Event Code: 2/6

Severity: Warning

Message: Duplicate IP Address Detected <IP_address>

Meaning: IP detected a host on the local network with the same IP address as one of the router's interfaces, identified by <IP_address>. IP detected the address duplication when it ARPed for its own address over the interface in question.

Action: Resolve duplicate addresses by changing either the local interface address or that of the host.

Entity Code/Event Code: 2/7

Severity: Warning

Message: Interface <IP_address> Misconfigured -- Disabled

Meaning: The IP interface identified by <IP_address> has been determined to have a configuration error. IP designates the interface as Disabled, and waits for a change in the configuration record before attempting to enable the interface.

Action: Repair the configuration record.

Entity Code/Event Code: 2/41

Severity: Warning

Message: Interface <IP_address>: Invalid IPSO level value: <level_value>.

Meaning: The interface <IP_address> is configured with an invalid RIPS security level.

Action: Reconfigure the RIPS security level for interface <IP_address>. You must correct this configuration error in order for the interface to initialize.

Entity Code/Event Code: 2/42

Severity: Warning

Message: Interface <IP_address>: Invalid IPSO auth value: <authority_value>.

Meaning: The interface <IP_address> is configured with an invalid RIPS authority value.

Action: Reconfigure the RIPS authority value for interface <IP_address>. You must correct this configuration error in order for the interface to initialize.

Entity Code/Event Code: 2/43

Severity: Warning

Message: Interface <IP_address>: Malformed IPSO auth value: <authority_value>

Meaning: An authority value parameter (Must InAuthority, May InAuthority, Must OutAuthority, May OutAuthority, Implicit Authority, Default Authority, or Error Authority) is configured incorrectly.

Action: Reconfigure the authority value parameter, noting the following conditions:

- An authority value parameter setting cannot contain any all-zero octets.
- If the last bit in an octet is set, a subsequent authority octet is required.
- If the last bit in an octet is not set, then a subsequent authority octet is not allowed.

Entity Code/Event Code: 2/44

Severity: Warning

Message: Interface <IP_address>: Invalid IPSO level range: <range>

Meaning: The Maximum Level parameter setting is not greater than or equal to the Minimum Level parameter setting.

Action: Reconfigure the Maximum Level parameter setting so that it is greater than or equal to the Minimum Level parameter setting.

Entity Code/Event Code: 2/45

Severity: Warning

Message: Interface <IP_address>: Invalid IPSO auth. Flags - MAY not a superset of Must:<flag_type>

Meaning: The authority flags specified for the May <flag_type> are not a superset of the authority flags specified for the Must<flag_type>.

Action: Reconfigure the May <flag_type> parameter for interface <IP_address>. You must correct this configuration error in order for the interface to initialize.

Entity Code/Event Code: 2/46

Severity: Warning

Message: Interface <IP_address>: Invalid implicit IPSO level value <implicit_level_value>

Meaning: The Implicit Level parameter is not set within the range specified by the Minimum Level and Maximum Level parameters.

Action: Reconfigure the Implicit Level parameter for interface <IP_address>. You must correct this configuration error in order for the interface to initialize.

Entity Code/Event Code: 2/47

Severity: Warning

Message: Interface <IP_address>: Invalid implicit IPSO auth. value <implicit_auth_value>

Meaning: The Implicit Authority parameter is configured incorrectly. Either the current Implicit Authority value does not set required bits (as specified by the Must InAuthority parameter setting), or it sets bits that are not allowed (as specified by the May InAuthority parameter setting).

Action: Reconfigure the Implicit Authority parameter for interface <IP_address>. You must correct this configuration error in order for the interface to initialize.

Entity Code/Event Code: 2/48

Severity: Warning

Message: Interface <IP_address>: Invalid default IPSO level value <default_level_value>

Meaning: The Default Level parameter is not set within the range specified by the Minimum Level and Maximum Level parameters.

Action: Reconfigure the Default Level parameter for interface <IP_address>. You must correct this configuration error in order for the interface to initialize.

Entity Code/Event Code: 2/49

Severity: Warning

Message: Interface <IP_address>: Invalid default IPSO auth. value <authority_level_value>

Meaning: The Default Authority parameter is configured incorrectly. Either the current Default Authority value does not set required bits (as specified by the Must OutAuthority parameter setting), or it sets bits that are not allowed (as specified by the May OutAuthority parameter setting).

Action: Reconfigure the Default Authority parameter for interface <IP_address>. You must correct this configuration error in order for the interface to initialize.

Entity Code/Event Code: 2/50

Severity: Warning

Message: Interface <IP_address>: Invalid error IPSO auth. value <authority_value>

Meaning: The Error Authority parameter is configured incorrectly. Either the current Error Authority value does not set required bits (as specified by the Must OutAuthority parameter setting), or it sets bits that are not allowed (as specified by the May OutAuthority parameter setting).

Action: Reconfigure the Error Authority parameter for interface <IP_address>. You must correct this configuration error in order for the interface to initialize.

Entity Code/Event Code: 2/51

Severity: Warning

Message: Interface <IP_address>: cannot strip output labels when output labels required

Meaning: The Require Out Label or Strip Security parameter is configured incorrectly. If Require Out Label is set to Originated, Forwarded, or All, then you cannot set Strip Security to Outgoing or All.

Action: Reconfigure the Require Out Label or Strip Security parameters, or both. You must correct this configuration error in order for the interface to initialize.

Entity Code/Event Code: 2/52

Severity: Warning

Message: Interface <IP_address>: Default label required, as output label required

Meaning: The Default Label is configured incorrectly. If the Require Out Label parameter is set to Forwarded, Originated, or All, then the Default Label parameter must be enabled.

Action: Set the Default Label parameter to Enable. You must correct this configuration error in order for the interface to initialize.

Entity Code/Event Code: 2/53

Severity: Warning

Message: Interface <IP_address>: Error label required, as output label required

Meaning: The Error Label is configured incorrectly. If the Require Out Label parameter is set to Forwarded, Originated, or All, then the Error Label parameter must be enabled.

Action: Set the Error Label parameter to Enable. You must correct this configuration error in order for the interface to initialize.

Entity Code/Event Code: 2/54

Severity: Warning

Message: Interface <IP_address>: Security must be enabled for a BFE interface

Meaning: Blacker Front End support is enabled on this interface (that is, the Address Resolution parameter is set to X25_BFE_DDN); however, corresponding RIPS0 parameters are not specified.

Action: Set the Enable Security parameter to Enable, set the Require Out Security parameter to All, and set the Error Label and Default Label parameters to Enable.

Entity Code/Event Code: 2/56

Severity: Warning

Message: Error when configuring static route <IP_address>|<IP_address>|<IP_address>

Meaning: The static route <IP_address>|<IP_address>|<IP_address> is configured incorrectly.

Action: Reconfigure the static route.

Entity Code/Event Code: 2/57

Severity: Warning

Message: Subnet zero disabled, not allowed for this static route <IP_address>/<IP_address>/<IP_address>

Meaning: The subnet zero is not allowed for this static route.

Action: Reconfigure the static route.

Entity Code/Event Code: 2/59

Severity: Warning

Message: An IP Route Filter could not be activated.
Increase the Maximum IP Policy Rules parameter

Meaning: The number of rules in the filter exceeds the number allowed.

Action: Determine the number of rules in the filter and specify the value.

Entity Code/Event Code: 2/60

Severity: Warning

Message: An IP Policy could not be activated.
Increase the Maximum IP Policy Rules parameter.

Meaning: The number of rules in the policy exceeds the number allowed.

Action: Determine the number of rules in the policy and specify the value.

Entity Code/Event Code: 2/61

Severity: Warning

Message: The <parameter_name> parameter for Accept policy rule <policy_rule_no.> for the <IP_protocol> protocol is malformed - the octet string length is not a multiple of 8 bytes.

Meaning: The specified parameter value is invalid.

Action: Enter a valid parameter string.

Entity Code/Event Code: 2/62

Severity: Warning

Message: The *<parameter_name>* parameter for *<accept/announce>* policy rule *<policy_rule_no.>* for the *<IP_protocol>* protocol is malformed — the octet string length is not a multiple of 9 bytes.

Meaning: The specified parameter is invalid.

Action: Enter a valid parameter string.

Entity Code/Event Code: 2/63

Severity: Warning

Message: The *<parameter_name>* parameter for *<accept/announce>* policy rule *<policy_rule_no.>* for the *<IP_protocol>* protocol is malformed — a Type field has the value *<type_value>* instead of one of the legal values of 1 (exact match) or 2 (range match).

Meaning: The specified parameter has an invalid Type value.

Action: Enter a valid Type value.

Entity Code/Event Code: 2/64

Severity: Warning

Message: The *<parameter_name>* parameter for *<accept/announce>* policy rule *<policy_rule_no.>* for the *<IP_protocol>* protocol is malformed — the octet string length is not a multiple of 4 bytes.

Meaning: The parameter is invalid.

Action: Enter a valid parameter string.

Entity Code/Event Code: 2/65

Severity: Warning

Message: The *<parameter_name>* parameter for *<accept/announce>* policy rule *policy_rule_number>* for the *<IP_protocol>* protocol is malformed — the octet string is not a multiple of 2 bytes.

Meaning: The parameter is invalid.

Action: Enter a valid parameter string that is a multiple of 2 bytes.

Entity Code/Event Code: 2/72

Severity: Warning

Message: An <IP_protocol> Accept Policy with a zero instance ID was configured. This is an illegal configuration and the rule cannot be activated.

Meaning: The accept policy for the specified protocol has an invalid instance ID.

Action: Supply a valid instance ID.

Entity Code/Event Code: 2/73

Severity: Warning

Message: An <IP_protocol> Announce Policy with a zero instance ID was configured. This is an illegal configuration and the rule cannot be activated.

Meaning: The announce policy for the specified protocol has an invalid instance ID.

Action: Supply a valid instance ID.

Info Events

Entity Code/Event Code: 2/2

Severity: Info

Message: Interface <IP_address> up on circuit <circuit_no.>

Meaning: The circuit identified by <circuit_no.> has become enabled, thus providing service to the interface identified by <IP_address>.

Entity Code/Event Code: 2/3

Severity: Info

Message: Interface <IP_address> down on circuit <circuit_no.>

Meaning: The circuit identified by <circuit_no.> has become disabled, thus disabling service to the interface identified by <IP_address>.

Entity Code/Event Code: 2/4

Severity: Info

Message: Protocol initializing

Meaning: IP is initializing.

Entity Code/Event Code: 2/5

Severity: Info

Message: Protocol terminating

Meaning: IP is terminating.

Entity Code/Event Code: 2/27

Severity: Info

Message: IP Traffic Filter — Rule <filter_rule_no.>, Interface <IP_address>, Circuit <circuit_no.> (Accept packet)

Meaning: A packet-matching filter rule <filter_rule_no.> was received on <IP_address>. The packet was accepted as specified by the filter.

Entity Code/Event Code: 2/28

Severity: Info

Message: IP Traffic Filter — Rule <filter_rule_no.>, Interface <IP_address>, Circuit <circuit_no.> (Drop packet)

Meaning: A packet-matching filter rule <filter_rule_no.> was received on <IP_address>. The packet was dropped as specified by the filter.

Entity Code/Event Code: 2/29

Severity: Info

Message: IP Traffic Filter — Rule <filter_rule_no.>, Interface <IP_address>, Circuit <circuit_no.> (Forward to next hop: <IP_address>)

Meaning: A packet-matching filter rule <filter_rule_no.> was received on <IP_address>. The packet was forwarded to the specified next-hop router.

Entity Code/Event Code: 2/30

Severity: Info

Message: IP Traffic Filter — Rule <filter_rule_no.>, Interface <IP_address>, Circuit <circuit_no.> (Log only)

Meaning: A packet-matching filter rule <filter_rule_no.> was received on <IP_address>. The packet was logged as specified by the filter.

Entity Code/Event Code: 2/55

Severity: Info

Message: Interface <IP_address>: IPSO processing enabled

Meaning: The router checked the security configuration for interface <IP_address>. The security configuration is correct and the router initialized RIPS0 for that interface.

IPX Events

The Internet Packet Exchange service, referred to as the IPX entity, issues the following event messages. The entity code assigned to IPX events is 30.

Warning Events

Entity Code/Event Code: 30/12

Severity: Warning

Message: IPX received a rip packet on interface <IPX_interface_address> with a dest net of <IPX_network_address>, src net of <IPX_network_address>, packet discarded.

Meaning: A RIP packet with a destination network other than the network number of the IPX interface was received on the indicated interface. An interface on this segment has been configured with an incorrect network number.

Action: Check the interfaces configured on the segment and reconfigure them with the correct network number.

Entity Code/Event Code: 30/13

Severity: Warning

Message: IPX received a sap packet on interface <IPX_interface_address> with a dest net of <IPX_network_address>, src net of <IPX_network_address>, packet discarded.

Meaning: A SAP packet with a destination network other than the network number of the IPX interface was received on the indicated interface. An interface on this segment has been configured with an incorrect network number.

Action: Check the interfaces configured on the segment and reconfigure them with the correct network number.

Entity Code/Event Code: 30/66

Severity: Warning

Message: MultipleHostAddress will override old CfgHostAddr.

Meaning: Multiple Host Address Enable (an IPX global parameter) is set to Enable (default setting), which allows for host ID number assignments on a per-interface basis. Each IPX interface will adopt the 6-byte MAC address of the associated circuit as the host ID number for that interface.

Action: If you want to keep a single, boxwide host ID number for all IPX interfaces, change the setting of the Multiple Host Address Enable global parameter to Disable.

If you want to set IPX host ID numbers on a per-interface basis, leave the setting of the Multiple Host Address Enable global parameter at Enable.

Entity Code/Event Code: 30/67

Severity: Warning

Message: IPXWAN/PPP Incorrectly configured: <error_type>.

Meaning: IPX WAN on PPP is incorrectly configured, as determined by the specific type of error reported in the message.

Action: Your action depends on the type of error, as follows:

If the message is “Zero IPX interface w/no PPP or IPXWAN”:

Note that an IPX interface with a network number of zero requires that a lower protocol layer negotiate the IPX network number. Depending on your IPX configuration requirements, you must do one of the following:

- Change the network number of the IPX interface to a nonzero, valid IPX network number.

- Configure the IPX interface on PPP or IPX WAN.

If the message is “Non-zero IPX interface w/IPXWAN”:

Note that IPX WAN always negotiates the network number. The network number of this interface must be zero. Depending on your IPX configuration requirements, you must do one of the following:

- Change the network number in the IPX Interface window to zero.
- Disable IPX WAN.

If the message is “IPXWAN Enabled w/non-zero IPX Intf”:

Note that IPX WAN always negotiates the network number. The network number of this interface must be zero. Depending on your IPX configuration requirements, you must do one of the following:

- Change the network number in the IPX Interface window to zero.
- Disable IPX WAN.

If the message is “IPX intf non-zero and PPP-negotiated net is not equal to IPX intf”:

The network number of this IPX interface, which is configured on PPP, is not equal to zero. The network number negotiated by PPP also is not equal to the network number of the IPX interface. Depending on your IPX configuration requirements, you must do one of the following:

Proceed as follows:

- Set the IPX interface to zero and allow PPP to negotiate the IPX network number.
- Set the IPX network number of the PPP interfaces on both sides of the link to zero.
- Set the network number of the IPX interfaces on both sides of the link to the same, nonzero value.

If the message is “PPP no negotiated net and no IPXWAN”:

PPP did not negotiate a network number successfully, and IPX WAN (which could negotiate a network number) is not enabled on the circuit. Depending on your IPX configuration requirements, you must do one of the following:

- Configure a nonzero network number on the IPX interface.
- Configure PPP to negotiate the IPX network number or enable IPX WAN on the interface, or both. (If you enable IPX WAN, the network number of the interface must be zero.)

Entity Code/Event Code: 30/68

Severity: Warning

Message: IPX Static Route, bad NextHopNet: no IPX Intf <IPX_interface_address>.

Meaning: A static route is configured on the nonexistent IPX interface address indicated in the message.

Action: Change the address of the next-hop interface for this IPX static route from the indicated address to an existing IPX interface address.

Info Events

Entity Code/Event Code: 30/1

Severity: Info

Message: IPX Protocol initializing.

Meaning: The IPX protocol is initializing, box-wide.

Entity Code/Event Code: 30/2

Severity: Info

Message: IPX Protocol terminating.

Meaning: The IPX protocol is terminating, box-wide.

Entity Code/Event Code: 30/3

Severity: Info

Message: IPX on Interface <IPX_network_address> up on circuit <circuit_no.>

Meaning: This IPX interface has come up on the indicated circuit.

Entity Code/Event Code: 30/4

Severity: Info

Message: IPX on Interface <IPX_network_address> down on circuit <circuit_no.>

Meaning: This IPX interface has gone down on the indicated circuit.

Entity Code/Event Code: 30/42

Severity: Info

Message: IPX ADD Nwif cct <circuit_name> Network <IPX_network_address>.

Meaning: The IPX interface designated by its network address and associated circuit name has been added to the table of interfaces.

Entity Code/Event Code: 30/43

Severity: Info

Message: IPX Nwif from MIB Active cct <circuit_name> Network <IPX_network_address>.

Meaning: The record for the IPX interface specified in the message by <circuit_name> and <IPX_network_address> is active, and the IPX routing software has read the information.

Entity Code/Event Code: 30/44

Severity: Info

Message: IPX Nwif from MIB Non-active cct <circuit_name> Network <IPX_network_address>.

Meaning: The IPX routing software has detected that the record for the IPX interface specified in the message by <circuit_name> and <IPX_network_address> is inactive.

Entity Code/Event Code: 30/45

Severity: Info

Message: IPX Network <IPX_network_address> mapped to cct <circuit_name>

Meaning: The IPX interface with the indicated network address is monitoring the status of the circuit named in the message.

Entity Code/Event Code: 30/46

Severity: Info

Message: IPX Traffic Filter — drop: Rule <filter_rule_no.>, Circuit <circuit_no.> Network <IPX_network_address> Host <node_address>

Meaning: A packet-matching filter rule <filter_rule_no.> was received on <circuit_no.>. The packet was dropped, as specified by the filter.

Entity Code/Event Code: 30/47

Severity: Info

Message: IPX Traffic Filter: Rule *<filter_rule_no.>*, Circuit *<circuit_name>*Meaning: A packet-matching filter rule *<filter_rule_no.>* was received on *<circuit_no.>*. The packet was accepted, as specified by the filter.**Entity Code/Event Code: 30/52**

Severity: Info

Message: IPXWAN up on cct *<circuit_name>*.

Meaning: IPX WAN is up on the indicated circuit.

Entity Code/Event Code: 30/53

Severity: Info

Message: IPXWAN down on cct *<circuit_name>*

Meaning: IPX WAN is down on the indicated circuit.

Entity Code/Event Code: 30/54

Severity: Info

Message: IPXWAN negotiation successful on cct *<circuit_name>*.

Meaning: IPX WAN has successfully negotiated the opening of a WAN link to another IPX node.

Entity Code/Event Code: 30/55

Severity: Info

Message: IPXWAN negotiation failed on cct *<circuit_name>*.

Meaning: IPX WAN was unsuccessful in negotiating a WAN link to another IPX node.

Entity Code/Event Code: 30/56

Severity: Info

Message: IPXWAN we are Master on cct *<circuit_name>*.Meaning: The IPX WAN interface on the indicated circuit has declared itself as link master in a WAN data link to another IPX node.

Entity Code/Event Code: 30/57

Severity: Info

Message: IPXWAN we are Slave on cct <*circuit_name*>.

Meaning: The IPX WAN interface on the indicated circuit has acknowledged itself as link slave in a WAN data link to another IPX node.

Entity Code/Event Code: 30/58

Severity: Info

Message: IPXWAN Link Delay is <*amount_of_delay*> on cct <*circuit_name*>.

Meaning: The WAN data link negotiated by IPX WAN on the indicated circuit incurs the amount of point-to-point delay quantified in the message.

Entity Code/Event Code: 30/59

Severity: Info

Message: IPX WAN Common Net Number is <*network_no. (hex)*> on cct <*circuit_name*>.

Meaning: IPX WAN on the indicated circuit has assigned to the WAN segment negotiated on that circuit the IPX network number also indicated in the message.

Entity Code/Event Code: 30/60

Severity: Info

Message: IPXWAN Primary Net Number is <*network_no. (hex)*>, his is <*network_no. (hex)*> on cct <*circuit_name*>.

Meaning: The local and remote IPX WAN interfaces associated with the WAN segment on the indicated circuit have the primary network numbers specified in the message (“his” refers to the remote IPX WAN interface).

Entity Code/Event Code: 30/61

Severity: Info

Message: IPXWAN Router Name is <*router_name*>, his is <*router_name*> on cct <*circuit_name*>.

Meaning: The local and remote IPX WAN interfaces associated with the WAN segment on the indicated circuit have the IPX router names specified in the message (“his” refers to the remote IPX WAN interface).

Entity Code/Event Code: 30/69

Severity: Info

Message: IPX Traffic Filter — log: Rule <filter_rule_no.>, Circuit <circuit_no.>, Network <IPX_network_address>

Meaning: A packet destined for <IPX_network_address> and matching filter rule <filter_rule_no.> was received on <circuit_no.>. This event is logged when you enter a traffic filter whose action is “log-only.”

Entity Code/Event Code: 30/70

Severity: Info

Message: IPX Traffic Filter — accept: Rule <filter_rule_no.>, Circuit <circuit_no.>, Network <IPX_network_address> Host <host_no.>

Meaning: A packet destined for <host_no.> on <IPX_network_address> and matching filter rule <filter_rule_no.> was received and accepted on <circuit_no.>.

Trace Events

Entity Code/Event Code: 30/5

Severity: Trace

Message: IPX Network added to Table of Networks.

Net: <IPX_network_address> NextHopHost: <IPX_network_address.node address>

Meaning: The network indicated was added to the table of networks.

Entity Code/Event Code: 30/6

Severity: Trace

Message: IPX Network removed from Table of Networks.

Net: <IPX_network_address> NextHopHost: <IPX_network_address>.<IPX_node_address>

Meaning: The network indicated was deleted from the table of networks.

Entity Code/Event Code: 30/7

Severity: Trace

Message: IPX Server added to table of services:

Internal Net: <internal_network_address> Name: <server_name> Type:
<server_type_no.>

Meaning: The server indicated was added to the table of services.

Entity Code/Event Code: 30/8

Severity: Trace

Message: IPX Server deleted from table of services:

Internal Net: <internal_network_address> Name: <server_name> Type:
<server_type_no.>

Meaning: The server indicated was deleted from the table of services.

Entity Code/Event Code: 30/9

Severity: Trace

Message: IPX Service no longer available, net <IPX_network_address> down:

Internal Net: <internal_network_address> Name: <server_name> Type:
<server_type_no.>

Meaning: The IPX service at the indicated address is no longer available.

Entity Code/Event Code: 30/10

Severity: Trace

Message: IPX Host <IPX_network_address>.<IPX_node_address> added to Table of Hosts

Meaning: The host node indicated was added to the table of hosts.

Entity Code/Event Code: 30/11

Severity: Trace

Message: IPX Host <IPX_network_address.node_address> deleted from Table of Hosts

Meaning: The host node indicated was deleted from the table of hosts.

Entity Code/Event Code: 30/14

Severity: Trace

Message: IPX forwarded a BCAST type *<packet_type (hex)>* packet from interface *<IPX_interface_source_address>* with destination net of *<IPX_network_destination_address>*.

Meaning: IPX forwarded a directed broadcast packet from the specified IPX interface to the destination network also specified in the message.

Entity Code/Event Code: 30/15

Severity: Trace

Message: IPX dropped a BCAST type *<packet_type (hex)>* packet from interface *<IPX_interface_address>* with destination net of *<IPX_network_address>*.

Meaning: IPX dropped a directed broadcast packet sent from the specified IPX interface to the destination network also specified in the message. The outbound interface is the same as the inbound interface.

ISDN Events

The ISDN service, referred to as the ISDN entity, issues the following event messages. The entity code assigned to ISDN events is 79.

Fault Event

Entity Code/Event Code: 79/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The router experienced an error and is restarting automatically.

Action: Verify that the configuration is correct. Call the Bay Networks Help Desk if the router fails to restart.

Warning Events

Entity Code/Event Code: 79/7

Severity: Warning

Message: Configured DSL ID <ID_no.> greater than allowed.

Meaning: The value assigned to the DSL (digital subscriber loop) by the driver is larger than the router software permits.

Action: Verify that the ISDN hardware configuration is valid for your router model.

Entity Code/Event Code: 79/8

Severity: Warning

Message: No D channel driver available. Dropping packet.

Meaning: There is no D channel available, so the router will not send the packet.

Action: Verify the state of the ISAC driver (the router's ISDN chip) to ensure that it is loaded in the slot and enabled. If you continue to see this message, contact the Bay Networks Help Desk.

Info Events

Entity Code/Event Code: 79/2

Severity: Info

Message: Service initializing. Awaiting configuration from Line Manager.

Meaning: The D channel signaling stack has started. It is waiting for the configuration parameters from the line manager.

Entity Code/Event Code: 79/3

Severity: Info

Message: Received configuration from Line Manager.

Meaning: The line manager sent the configuration parameters to the D channel signaling stack.

Entity Code/Event Code: 79/4

Severity: Info

Message: TEI <terminal_endpoint_identifier_no.> assigned on DSL <ID_no.>.

Meaning: The ISDN switch, that is the network, assigned a TEI to this DSL.

Entity Code/Event Code: 79/5

Severity: Info

Message: TEI <terminal_endpoint_identifier_no.> removed on DSL <ID_no.>.

Meaning: The TEI assigned by the ISDN switch for this DSL is no longer valid.

Trace Events

Entity Code/Event Code: 79/9

Severity: Trace

Message: Error <user_text_string>.

Meaning: This message is specific to the ISDN code. Bay Networks uses this event for debugging purposes.

Entity Code/Event Code: 79/10

Severity: Trace

Message: PACKAGE:

BufType:<no.> SourceID:<ID_no.> DestID:<ID_no.> InfoLen:<no.>
InfoBufType:<no.> MsgType:<hex_value>

Meaning: This message is part of the ISDN trace facility. Bay Networks uses this message for debugging purposes. During normal operation, you should turn the trace facility off; then this message will not appear in the log.

Entity Code/Event Code: 79/11

Severity: Trace

Meaning: PRIVILEGE:

BufType:<no.> L2_Protocol:<no.> Source_ID <ID_no.> SourceState:<no.>
Dest_ID:<ID_no.> Prim_ID:<ID_no.> Sapi: <sapi_no.> Ces:<no.>
LLI<LLIndex_no.> Call_ID: <ID_no.> DSL_ID:<ID_no.>
DSL_Chان_ID:<ID_no.>

Meaning: This message is part of the ISDN trace facility. Bay Networks uses this message for debugging purposes. During normal operation, you should turn the trace facility off; then this message will not appear in the log.

Entity Code/Event Code: 79/13

Severity: Trace

Message: Starting Layer 2.

Meaning: The router has started Layer 2 of the ISDN signaling stack.

Entity Code/Event Code: 79/14

Severity: Trace

Message: Starting Management Entity.

Meaning: The router has started the management entity of the ISDN signaling stack.

Entity Code/Event Code: 79/15

Severity: Trace

Message: Starting Call Control

Meaning: The router has started the call control layer of the ISDN signaling stack.

Entity Code/Event Code: 79/16

Severity: Trace

Message: Starting Layer 3.

Meaning: The router has started Layer 3 of the ISDN signaling stack.

ISDN BRI Events

The ISDN BRI driver service, referred to as the ISDN BRI entity, issues the following event messages. The entity code assigned to ISDN BRI events is 80.

Fault Event

Entity Code/Event Code: 80/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The ISDN BRI driver software encountered a problem from which it could not recover.

Action: The router will restart the ISDN BRI driver. To determine what caused the crash, save the log and configuration file and look in these files for a probable cause. Call the Bay Networks Help Desk if the router fails to boot.

Warning Events

Entity Code/Event Code: 80/2

Severity: Warning

Message: ISDN BRI <channel_no.>, DSL <ID_no.>, Interface aborting init. No Net module present in module location <location>

Meaning: Although the ISDN BRI interface is configured, there is no net module present in the appropriate slot for this interface.

Action: Insert the net module in the proper location on the host module.

Entity Code/Event Code: 80/3

Severity: Warning

Message: ISDN BRI <channel_no.>, DSL <ID_no.>, Timer 3 expired, S/T inactive

Meaning: Indicates that the router tried to activate the S/T interface but failed. When Layer 1 receives a request to activate the S/T interface, it transmits INFO 1 frames for the duration of the T3 timer. When the timer expires, the router stops sending INFO 1 frames and then transmits INFO 0 frames, which are idle 1's that indicate that there is no signal.

Action: Make sure the RJ45 cable is plugged in to the S/T interface. If the cable is properly secured, consult your network subscriber, and provide the value of your T3 timer (the default is 10 seconds). This timer may be too short for your ISDN service. If the T3 timer value is fine, then the problem exists between the physical connection of the router and the ISDN switch.

Entity Code/Event Code: 80/4

Severity: Warning

Message: ISDN BRI <channel_no.>, DSL <ID_no.>, Interface not verified with diagnostic.

Meaning: You did not run diagnostics on the specified ISDN interface.

Entity Code/Event Code: 80/5

Severity: Warning

Message: ISDN BRI <channel_no.>, DSL <ID_no.>, Interface aborting init. Wrong Net module type in module location <location>.

Meaning: Although you configured the ISDN BRI interface, the net module present in this location is not the correct type of module.

Action: Replace the existing Net module with the correct type. For example, the module may not be an ISDN BRI Net module.

Info Events

Entity Code/Event Code: 80/6

Severity: Info

Message: Service initializing.

Meaning: The ISDN BRI driver is loaded and is preparing to distribute all configuration instances of the ISDN BRI driver.

Entity Code/Event Code: 80/7

Severity: Info

Message: ISDN BRI <channel_no.>, DSL <ID_no.>, Interface disabled.

Meaning: You have disabled the BRI driver, but it is still loaded in memory.

Entity Code/Event Code: 80/8

Severity: Info

Message: ISDN BRI <channel_no.>, DSL <ID_no.>, Interface enabled.

Meaning: You have enabled the ISDN BRI driver and the software passed diagnostics successfully.

Entity Code/Event Code: 80/9

Severity: Info

Message: ISDN BRI <channel_no.>, Interface configuration deleted.

Meaning: You deleted the ISDN BRI driver and the router unloaded the driver from memory.

Entity Code/Event Code: 80/10

Severity: Info

Message: ISDN BRI <channel_no.>, Interface service withdrawn.

Meaning: You have removed ISDN service. ISDN functionality is no longer available on specified interfaces.

Entity Code/Event Code: 80/11

Severity: Info

Message: ISDN BRI <channel_no.>, DSL <ID_no.>, Interface activated.

Meaning: Indicates the S/T interface is active. In compliance with CCITT I.430, the S/T interface has reached state F7, which means that both the network terminator (NT) and the router are transmitting normal frames, that is, sending INFO 3 frames and receiving INFO 4 frames.

Entity Code/Event Code: 80/12

Severity: Info

Message: ISDN BRI <channel_no.>, DSL <ID_no.> Interface deactivated

Meaning: Indicates the S/T interface is not active. In compliance with CCITT I.430, the S/T interface has reached state F3, the deactivated state of the physical protocol. Neither the network terminator (NT) nor the router are transmitting frames.

Entity Code/Event Code: 80/13

Severity: Info

Message: ISDN BRI <channel_no.>, DSL <ID_no.>, Interface waiting to be activated.

Meaning: Indicates the S/T interface is currently deactivated and waiting for either an activation request from the router or from the network.

Entity Code/Event Code: 80/14

Severity: Info

Message: ISDN BRI <channel_no.>, DSL <ID_no.>, Interface generating an activation request.

Meaning: Indicates the S/T interface has received an activation request from the router to activate the S/T interface. In compliance with I.430, the S/T interface transitions from state F3 (deactivated) to state F4 (awaiting signal) and starts transmitting INFO 1 frames.

Entity Code/Event Code: 80/15

Severity: Info

Message: ISDN BRI <channel_no.>, DSL <ID_no.>, Interface lost framing synchronization.

Meaning: Indicates the S/T interface lost framing synchronization with the network. In compliance with I.430, this may only occur once the router reaches either the F6 state (synchronized) or the F7 state (activated).

Action: Check that the RJ45 cable is plugged into the S/T interface. If it is, then the problem might be a spurious occurrence on the wire. If this problem occurs frequently, then check the quality of the line with the central office.

Entity Code/Event Code: 80/16

Severity: Info

Message: ISDN BRI <channel_no.>, DSL <ID_no.>, Interface received a deactivation request from the S/T interface.

Meaning: Indicates that the network sent a deactivation request to the S/T interface. This occurs when the network terminator device wants to deactivate the router or if the connection to the network terminator is broken; for example, the cable is disconnected.

Action: Check the physical connection from the router to the network terminator. If this appears to be fine, then check with the central office for problems on your ISDN line.

Entity Code/Event Code: 80/17

Severity: Info

Message: IOM2 clocking is being provided on ISDN BRI <channel_no.>, DSL <ID_no.>.

Meaning: Indicates that the ISDN Oriented Modular Rev. 2.2 (IOM2) interface between the ISAC (the router's ISDN chip) and the QUICC chip is active and functioning. Specifically, this message indicates that the ISAC is providing clocking to the QUICC chip. You do not need to have a connection to the network in order to see this message. The clocking is internal to the router and does not depend on devices external to the router.

Entity Code/Event Code: 80/18

Severity: Info

Message: IOM2 clocking is not found on ISDN BRI <channel_no.>, DSL <ID_no.>.

Meaning: Indicates the IOM2 interface between the ISAC (the router's ISDN chip) and the QUICC chip is not functioning, therefore, the ISDN interface is not functioning properly. This indicates a hardware problem.

Action: There is a possible problem with the ISDN BRI Net module. Replace the module.

Entity Code/Event Code: 80/19

Severity: Info

Message: ISDN BRI <channel_no.>, DSL <ID_no.>, Interface has received Info State 2.

Meaning: This is usually the first indication from the network that it is activating the S/T interface. In accordance with I.430, the router transitions from any of the following states: F3 (deactivated), F4 (awaiting signal), F5 (identifying input), F7 (activated), F8 (lost framing), to the F6 (synchronized) state.

Entity Code/Event Code: 80/20

Severity: Info

Message: ISDN BRI <channel_no.>, DSL <ID_no.>, Interface reset has completed.

Meaning: Indicates the ISAC chip is functioning properly and has reset properly. You usually see this message when the ISDN driver is coming up or going down.

Entity Code/Event Code: 80/21

Severity: Info

Message: ISDN BRI <channel_no.>, DSL <ID_no.>, Interface reset has failed to complete.

Meaning: Indicates the ISAC chip is not functioning properly and has not reset properly, therefore there is a hardware problem.

Action: There is a possible problem with the ISDN BRI Net module. Replace the module.

Entity Code/Event Code: 80/22**Severity:** Info**Message:** ISDN BRI <channel_no.>, DSL <ID_no.>, Interface signal received, identifying input.**Meaning:** Indicates the S/T interface has received a signal other than INFO 0, and has not yet synchronized with the data pattern. This only occurs when the S/T interface is in the F3 (deactivated) state.**Entity Code/Event Code: 80/23****Severity:** Info**Message:** ISDN BRI <channel_no.>, DSL <ID_no.>, Interface starting timer T4**Meaning:** Upon the reception of INFO 0, the T4 timer is started when leaving state F7 (activated) and entering state F8 (lost framing). This indicates the S/T interface has lost synchronization with the network. The T4 timer is a debounce timer used to shield the upper layers from problems at the S/T interface. Spurious problems of short duration will not be reported to the upper layers until the T4 timer expires.

The router delivers a deactivation indication to Layer 2 only if it does not enter state F7 (activated) before the expiration of this timer.

Action: If this message occurs frequently, check with your network provider for an explanation. There may be a problem with the physical connection from the router to the network terminator.**Entity Code/Event Code: 80/24****Severity:** Info**Message:** ISDN BRI <channel_no.>, DSL <ID_no.>, Timer 4 expired, S/T being deactivated.**Meaning:** Indicates the S/T interface has not reached state F7 (activated) in less than the value of the T4 timer. The router transitioned from F7 (activated) to F8 (lost framing) but missed the time window in which to activate. The router deactivates the S/T interface and notifies Layer 2 that Layer 1 has transitioned to state F3 (deactivated).**Action:** If you unplugged the RJ45 cable from the router for a time greater than or equal to the T4 timer, then this occurrence is to be expected. If this happens frequently and the physical connection between the router and the network terminator is fine, then contact your network provider because there may be a framing problem on the ISDN line.

LAPB Events

The Link Access Procedure Balanced service, referred to as the LAPB entity, issues the following event messages. The entity code for LAPB events is 73.

Fault Event

Entity Code/Event Code: 73/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: LAPB experienced a fatal error and is restarting automatically. LAPB will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if LAPB fails to restart.

Warning Events

Entity Code/Event Code: 73/2

Severity: Warning

Message: Service on Line <line_no.> LLIndex <low_level_index_no.> out of range.

Meaning: There is a configuration error.

Action: Reconfigure the X.25 packet-level parameters or the LAPB link-level parameters.

Entity Code/Event Code: 73/3

Severity: Warning

Message: Connect attempts exceeded on service Line <line_no.>.

Meaning: The router exceeded the number of attempts to connect to the remote end node, as determined by the value of the N2 counter.

Action: The LAPB layer will restart by itself and attempt to connect until the link is up.

Entity Code/Event Code: 73/4

Severity: Warning

Message: Error in Data Request to LAPB layer.

Meaning: There was an internal data request, which may cause a loss of data.

Action: If the problem continues, call Bay Networks Help Desk.

Entity Code/Event Code: 73/5

Severity: Warning

Message: Error in LAPB buffer pool allocation.

Meaning: The network connection cable may be disconnected. Or, there was an internal data request, which may cause data loss.

Action: Check to make sure the network cables are securely connected. If the problem continues, call Bay Networks Help Desk.

Entity Code/Event Code: 73/6

Severity: Warning

Message: Trying to free invalid Timer Descriptor.

Meaning: There was an internal data request, which may cause a loss of data.

Action: If the problem continues, call Bay Networks Help Desk.

Entity Code/Event Code: 73/7

Severity: Warning

Message: Registration of LAPB Link Layer has failed.

Meaning: There was an internal data request, which may cause a loss of data.

Action: Check the LAPB configuration. If the problem continues, call Bay Networks Help Desk.

Entity Code/Event Code: 73/8

Severity: Warning

Message: MIB Record for Line <line number> LLIndex <low_level_index_no.> is non-existent.

Meaning: There is a configuration error.

Action: Reconfigure the X.25 packet-level parameters or the LAPB link-level parameters.

Entity Code/Event Code: 73/9

Severity: Warning

Message: LAPB Line Configuration Error.

Meaning: There is a configuration error.

Action: Reconfigure the X.25 packet-level parameters or the LAPB link-level parameters.

Info Events

Entity Code/Event Code: 73/10

Severity: Info

Message: Service initializing.

Meaning: A LAPB entity has been found in the configuration file, and it is initializing.

Entity Code/Event Code: 73/11

Severity: Info

Message: Service on Line <line_no.> LLIndex <low_level_index_no.> disabled.

Meaning: You disabled the LAPB layer for Line <line_no.> LLIndex <low_level_index_no.>.

Entity Code/Event Code: 73/12

Severity: Info

Message: Service on Line <line_no.> LLIndex <low_level_index_no.> enabled.

Meaning: You enabled the LAPB layer for Line <line_no.> LLIndex <low_level_index_no.>.

Entity Code/Event Code: 73/13

Severity: Info

Message: Service on Line <line_no.> LLIndex <low_level_index_no.> configuration deleted.

Meaning: You deleted the LAPB layer for Line <line_no.> LLIndex <low_level_index_no.>.

Entity Code/Event Code: 73/14

Severity: Info

Message: Service on Line <line_no.> LLIndex <low_level_index_no.> providing LAPB.

Meaning: LAPB is running normally. Initialization was successful and the link to the remote side is established.

Entity Code/Event Code: 73/15

Severity: Info

Message: Service withdrawn on Line <line_no.> LLIndex <low_level_index_no.>.

Meaning: There is an internal or external condition, resulting in the withdrawal of the LAPB service. The router will try to reinitialize and establish the link again.

Action: Check your configuration. If the problem continues, call Bay Networks Help Desk.

LB Events

The Learning Bridge service, referred to as the LB entity, issues the following event messages. The entity code assigned to LB events is 1.

Fault Event

Entity Code/Event Code: 1/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The bridge experienced a fatal error and is restarting automatically. The bridge will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if the bridge fails to restart.

Warning Events

Entity Code/Event Code: 1/7

Severity: Warning

Message: FDB size too large for hardware — Setting it to *<size>*.

Meaning: You attempted to reset the size of the forwarding database (FDB) table. The value you selected is larger than the maximum size appropriate for the processor's hardware configuration.

Action: The router automatically resets the table to its maximum table size.

Entity Code/Event Code: 1/8

Severity: Warning

Message: FDB size too small — Setting it to *<size>*.

Meaning: You attempted to reset the size of the forwarding database (FDB) table. The value you selected is smaller than the minimum configurable size.

Action: The router automatically resets the table to its minimum size.

Entity Code/Event Code: 1/9

Severity: Warning

Message: FDB size rounded down to *<size>*.

Meaning: You attempted to set the size of the forwarding database (FDB) table to an odd size. Site Manager lists the sizes that the router allows.

Action: The router sets the size of the FDB table to the next lowest size that the router allows.

Info Events

Entity Code/Event Code: 1/2

Severity: Info

Message: Service initializing.

Meaning: The bridge is initializing.

Entity Code/Event Code: 1/3

Severity: Info

Message: Service terminating.

Meaning: The bridge is terminating.

Entity Code/Event Code: 1/4

Severity: Info

Message: Interface up on circuit <ircuit_no.>.

Meaning: The bridge has come up on the specified circuit.

Entity Code/Event Code: 1/5

Severity: Info

Message: Interface down on circuit <ircuit_no.>.

Meaning: The bridge has gone down on the specified circuit.

Entity Code/Event Code: 1/6

Severity: Info

Message: Bridge port <ircuit_no.> changing state to <state>.

Meaning: The port on the specified circuit will be transitioned to the identified state.

Trace Event

Entity Code/Event Code: 1/7

Severity: Trace

Message: MAC addr <source_address> learned by cct <ircuit_1> from cct <ircuit_2>.

Meaning: A packet containing <source address> has been received on <ircuit_2>, and the forwarding table for <ircuit_1> has been duly modified.

LLC Events

The Logical Link Control service, referred to as the LLC entity, issues the following event messages. The entity code assigned to LLC events is 48.

Fault Event

Entity Code/Event Code: 48/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: LLC experienced a fatal error and is restarting automatically. LLC will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call the Bay Networks Help Desk in your area if LLC fails to restart.

Info Events

Entity Code/Event Code: 48/2

Severity: Info

Message: LLC Service initializing.

Meaning: The LLC service is initializing on the router.

Entity Code/Event Code: 48/3

Severity: Info

Message: LLC Service terminating.

Meaning: The LLC service is terminating on the router.

Entity Code/Event Code: 48/4

Severity: Info

Message: LLC Service up on circuit <*circuit_name*>

Meaning: The LLC protocol entity has come up on the indicated physical circuit.

Entity Code/Event Code: 48/5

Severity: Info

Message: LLC Service down on circuit <*circuit_name*>

Meaning: The LLC protocol entity has gone down on the indicated physical circuit.

LNМ Events

The LAN Network Manager service, referred to as the LNM entity (formerly referred to as the LSS entity), issues the following event messages. The entity code assigned to LNM events is 51.

Fault Event

Entity Code/Event Code: 51/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The LNM server experienced a fatal error and is restarting automatically. The LNM server will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if the LNM server fails to restart.

Warning Events

Entity Code/Event Code: 51/45

Severity: Warning

Message: Disabling REM will cut off error monitoring.

Meaning: When you disable the REM server agent associated with a particular ring, the IBM LAN Network Manager is unable to solicit information on hardware and software errors occurring on that ring.

Entity Code/Event Code: 51/46

Severity: Warning

Message: Disabling CRS will prevent the LAN Manager from initiating ring station operations.

Meaning: When you disable the CRS server agent for a particular ring, the IBM LAN Network Manager application is unable to

- Set parameters in stations attached to the ring
- Solicit configuration reports from stations attached to the ring
- Remove stations from the ring

Entity Code/Event Code: 51/47

Severity: Warning

Message: No REM present on ring.

Meaning: The REM server for the ring has not been enabled.

Entity Code/Event Code: 51/48

Severity: Warning

Message: No CRS present on ring.

Meaning: The CRS server for the ring has not been enabled.

Entity Code/Event Code: 51/49

Severity: Warning

Message: No RPS present on ring.

Meaning: The RPS server for the ring has not been enabled.

Entity Code/Event Code: 51/50

Severity: Warning

Message: LNM SR MIB SET to a slot failed. MIB object display may be incorrect.

Meaning: An attempt to set the value of an object in the Source Routing MIB failed. Site Manager may be indicating that the value did change, but the value established prior to the attempt may be unchanged.

Action: Reattempt the LNM SR MIB SET operation.

Info Events

Entity Code/Event Code: 51/2

Severity: Info

Message: Service initializing.

Meaning: The LNM service is initializing on the slot shown in the event log entry.

Entity Code/Event Code: 51/3

Severity: Info

Message: Service terminating.

Meaning: The LNM service is terminating on the slot shown in the event log entry.

Entity Code/Event Code: 51/4

Severity: Info

Message: LNM <server_name> up on circuit <no.>

Meaning: The LNM server named in the message is up on the indicated circuit.

Entity Code/Event Code: 51/5

Severity: Info

Message: LNM <server_name> down on circuit <no.>

Meaning: The LNM server named in the message is down on the indicated circuit.

Entity Code/Event Code: 51/6

Severity: Info

Message: Set password for link <reporting_link_subvector_no.>

Meaning: Notification to Site Manager that the password associated with the indicated reporting link has been defined or changed.

Entity Code/Event Code: 51/7

Severity: Info

Message: Set *<internal/external>* ring number to *<ring_no. (hex)>*

Meaning: Notification to Site Manager that a new ring number has been assigned to the ring indicated in the message.

Entity Code/Event Code: 51/8

Severity: Info

Message: LNM Server *<server_name>* set to *<on/off>*.

Meaning: Notification to Site Manager that the state of the server indicated in the Events Manager window has been changed to On or Off.

Entity Code/Event Code: 51/9

Severity: Info

Message: Interface up on circuit *<no.>*

Meaning: Notification to Site Manager that the LNM server interface on the circuit indicated in the Events Manager window is up.

Entity Code/Event Code: 51/10

Severity: Info

Message: Interface down on circuit *<no.>*

Meaning: Notification to Site Manager that the LNM server interface on the circuit indicated in the Events Manager window is down.

Entity Code/Event Code: 51/12

Severity: Info

Message: Generated *<error_vector_no. (hex)>*

Meaning: The LNM server generated the error indicated by the number in the Events Manager window.

Entity Code/Event Code: 51/14

Severity: Info

Message: Beaconing on ring <ring_no. (hex)>

Meaning: A ring station downstream from a faulty station has recognized the existence of a hard-error condition on the ring, and is transmitting Beacon MAC frames. The error condition is degrading ring performance.

Entity Code/Event Code: 51/15

Severity: Info

Message: Ring <ring_no. (hex)> recovered from beaconing condition.

Meaning: A hard-error condition that occurred on the designated ring has disappeared. The ring is operating properly.

Entity Code/Event Code: 51/59

Severity: Info

Message: Set <MIB_object> to <object_value (hex)>

Meaning: The indicated MIB object has been set to the hexadecimal value shown in the message.

Entity Code/Event Code: 51/60

Severity: Info

Message: Set <MIB_object> to <object_value (text)>

Meaning: The indicated MIB object has been set to the text value shown in the message.

LOADER Events

The Dynamic Loader service, referred to as the LOADER entity, issues the following event messages. The entity code assigned to LOADER events is 55.

Fault Event

Entity Code/Event Code: 55/1

Severity: Fault

Message: System error, loader gate attempting restart.

Meaning: The Dynamic Loader experienced a fatal error and the operating system is restarting.

Action: Call Bay Networks Help Desk if the system fails to restart.

Warning Events

Entity Code/Event Code: 55/5

Severity: Warning

Message: Invalid instance of Loader<*instance_ID*> record found — invalidating

Meaning: An invalid instance ID was detected on one of the software load records for wfProtocols, wfDrivers, or wfLinkModules.

Action: Configure the router with the correct instance ID.

Entity Code/Event Code: 55/6

Severity: Warning

Message: <*link_modules*><*drivers*> on slot <*slot_no.*> misconfigured — ignoring

Meaning: An improper number of link modules or drivers were configured on a slot.

Action: Configure one link module per slot with the correct drivers.

Entity Code/Event Code: 55/8

Severity: Warning

Message: Can't find active boot image <release_ID>, searching volumes for another image

Meaning: The boot image that was originally booted cannot be found. The file system volume may have been moved to another slot, or the image may have been renamed.

Action: Ensure that the Dynamic Loader is able to locate the image and load all applications. If not, call Bay Networks Help Desk.

Entity Code/Event Code: 55/9

Severity: Warning

Message: Could not obtain <filename> application... not loaded

Meaning: The Dynamic Loader was unable to locate an image, so it could not load the named application.

Action: Ensure that the file system is accessible and that the image is present. If not, call Bay Networks Help Desk.

Entity Code/Event Code: 55/10

Severity: Warning

Message: Checksum of <filename> file header failed... not loaded

Meaning: An application's loader checksum failed, so it could not be loaded.

Action: Use the **readexe** Technician Interface command on the image file and check the results. Call Bay Networks Help Desk.**Entity Code/Event Code: 55/11**

Severity: Warning

Message: Checksum of <release_ID> image failed... not loaded

Meaning: An application's image checksum failed, so it couldn't be loaded.

Action: Use the **readexe** Technician Interface command on the image file and check the results. Call Bay Networks Help Desk.

Entity Code/Event Code: 55/12

Severity: Warning

Message: Decompression of <release_ID> image failed... not loaded

Meaning: An application module did not decompress successfully. Call Bay Networks Help Desk.

Entity Code/Event Code: 55/13

Severity: Warning

Message: Checksum of uncompressed <release_ID> image failed... not loaded

Meaning: An application module did not decompress successfully.

Action: Call Bay Networks Help Desk.

Entity Code/Event Code: 55/14

Severity: Warning

Message: Dynamic Loader unable to allocate enough memory to load application

Meaning: There is not enough free memory on the slot to load an application.

Action: If possible, free up the memory by unloading another existing application.

Entity Code/Event Code: 55/23

Severity: Warning

Message: Checksum failure: expected = <checksum>, actual = <checksum>, retrying...

Meaning: The Dynamic Loader encountered a checksum error when loading an application module, so it will try to reload the application.

Action: Call Bay Networks Help Desk if the Dynamic Loader's retries continue to fail.

Entity Code/Event Code: 55/34

Severity: Warning

Message: Loader detected incompatible kernel images across slots

Meaning: The Dynamic Loader detected different kernel images running within the router.

Action: Ensure that the same image is running on all slots. Check that the router software image is the same on all file systems.

Entity Code/Event Code: 55/39

Severity: Warning

Message: Module <link_module>, rev <release_ID>, is incompatible with kernel rev <release_ID>

Meaning: The Dynamic Loader detected an application module with a revision that's different from the kernel's revision.

Action: All applications in a router software image must be from the same release as the kernel. Check their stamps by using the Image Builder or **readexe** Technician Interface command.**Entity Code/Event Code: 55/44**

Severity: Warning

Message: TFTP Client gate is unavailable for remote down-load

Meaning: TFTP, which is necessary for remote dynamic loading, is not available. TFTP may become available later, at which time other images or string files can load.

Action: Use Site Manager or the Technician Interface to unload and then reload the failed application on the slot. If the error recurs, disable and then enable the IP interface on which TFTP is failing. If the error persists, call Bay Networks Help Desk.

Entity Code/Event Code: 55/45

Severity: Warning

Message: Down-loader request to TFTP Client gate was not accepted

Meaning: TFTP refused to accept a file transfer request. The current image or string file will not be loaded.

Action: Use Site Manager or the Technician Interface to unload and then reload the failed application on the slot. If the error recurs, disable and then enable the IP interface on which TFTP is failing. If the error persists, call Bay Networks Help Desk.

Entity Code/Event Code: 55/46

Severity: Warning

Message: TFTP Client gate reported error <error_code> loading file <filename>.

Meaning: A general or unknown TFTP error occurred during the transfer of the image or string file; the file was not loaded.

Action: Use Site Manager or the Technician Interface to unload and then reload the failed application on the slot. If the error recurs, disable and then enable the IP interface on which TFTP is failing. If the error persists, call Bay Networks Help Desk.

Entity Code/Event Code: 55/73

Severity: Warning

Message: Module <module_no.> does not support platform type <key_1> <key_2>

Meaning: This loadable image is not supported by your processor. The keys are used by the Bay Networks Help Desk to diagnose differences between the loadable application and the processor.

Action: Check your configuration and verify you have the right loadable image for your processor. If the error persists, call Bay Networks Help Desk.

Entity Code/Event Code: 55/75

Severity: Warning

Message: Module <module_no.> not for this platform family <key_1> <key_2>

Meaning: This loadable image is not supported by your family of processors (example — backbone node routers). The keys are used by the Bay Networks Help Desk to diagnose differences between the loadable application and the processor family.

Action: Call Bay Networks Help Desk.

MCT1 Events

The DS1E1 entity issues Multi-Channel T1 (MCT1) event messages. See the “DS1E1 Events” section.

MIB Events

The Management Information Base service, referred to as the MIB entity, issues the following event messages. The entity code assigned to MIB events is 13.

Fault Event

Entity Code/Event Code: 13/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: MIB experienced a fatal error and is restarting automatically. MIB will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call the Bay Networks Help Desk in your area if MIB fails to restart.

Warning Event

Entity Code/Event Code: 13/2

Severity: Warning

Message: Configuration file is CORRUPTED, ignoring.

Meaning: MIB detected that the configuration file was corrupt. MIB will boot with no configuration, or with a partial configuration.

Action: Repair the configuration file or install your backup file.

Info Events

Entity Code/Event Code: 13/3

Severity: Info

Message: Service initializing.

Meaning: MIB is initializing.

MODEMIF Events

Entity Code/Event Code: 13/4

Severity: Info

Message: Using config file '<filename>', to populate MIB

Meaning: MIB is using the named configuration file to initialize the management information base.

Entity Code/Event Code: 13/5, 13/6, 13/7, 13/8, 13/9, or 13/10

Severity: Info

Message: <object><attribute><instance_ID> set to <value>

Meaning: MIB has set the specified MIB variable to the indicated value.

Entity Code/Event Code: 13/11

Severity: Info

Message: Opaque object <object><attribute><instance_ID> was set.

Meaning: MIB has set the specified opaque (and consequently nondisplayable) variable.

MODEMIF Events

The Modem Interface service, referred to as the MODEMIF entity, issues the following event messages. The entity code assigned to MODEMIF events is 57.

Fault Events

Entity Code/Event Code: 57/1

Severity: Fault

Message: Connector COM <connector_no.> Modem I/F Line Control Gate Died.

Meaning: A software fault occurred.

Action: None required. The line will restart automatically.

Entity Code/Event Code: 57/2

Severity: Fault

Message: Connector COM <connector_no.>: failed to send indication to modem i/f gate

Meaning: A software fault occurred.

Action: None required. The line will restart automatically.

Warning Events

Entity Code/Event Code: 57/3

Severity: Warning

Message: Connector COM <connector_no.>: modem not present, V.25bis mode

Meaning: A line configured for V.25bis does not sense the presence of the modem/terminal adapter device.

Action: Check the status of the modem/terminal adapter device.

Entity Code/Event Code: 57/4

Severity: Warning

Message: Connector COM <connector_no.>: no number supplied, V.25bis mode

Meaning: You failed to configure a telephone number that the modem/terminal adapter will use to establish a connection to a WAN.

Action: Use Site Manager or the Technician Interface to configure a telephone number for the modem/terminal adapter.

Entity Code/Event Code: 57/14

Severity: Warning

Message: Connector COM <connector_no.>: out of message buffers, pkts dropped

Meaning: The router could not allocate a buffer.

Entity Code/Event Code: 57/41

Severity: Warning

Message: Connector COM <connector_no.>: Adapter did not accept CRN command

Meaning: The modem/terminal adapter did not accept the telephone number.

Action: Wait for retry attempts to complete.

Entity Code/Event Code: 57/42

Severity: Warning

Message: Connector COM <connector_no.>: Adapter did not accept CIC command

Meaning: The modem/terminal adapter failed to receive the router's Connect Incoming Call (CIC) message.

Action: Disable and then enable the synchronous line. Check the telephone numbers configured for the modem/terminal adapter.

Entity Code/Event Code: 57/43

Severity: Warning

Message: Connector COM <connector_no.>: Adapter did not accept DIC command

Meaning: The modem/terminal adapter failed to receive the router's Disconnect Incoming Call message.

Action: Disable and then enable the synchronous line. Check the telephone numbers configured for the modem/terminal adapter.

Entity Code/Event Code: 57/48

Severity: Warning

Message: Connector COM <connector_no.>: Adapter error = <error_code>

Meaning: The connection cannot be made, because the modem/terminal adapter has logged an error condition. Possible error codes are

ET	engaged tone
NS	number not stored
CB	local DCE busy
RT	ring tone

AB	abort call
NT	answer tone not detected
FC	forbidden call
CU	command unknown
MS	message syntax error
PS	parameter syntax error
PV	parameter value error

Action: Refer to your modem documentation for instructions on handling the specified error condition.

Entity Code/Event Code: 57/57

Severity: Warning

Message: Connector COM <*connector_no.*>: Received packets while waiting for CTS.

Meaning: The router received packets while waiting for CTS. The packets are dropped.

Entity Code/Event Code: 57/58

Severity: Warning

Message: Connector COM <*connector_no.*>: Received packets while in the down state.

Meaning: The router received packets while it was not connected to a WAN. The packets are dropped.

Entity Code/Event Code: 57/59

Severity: Warning

Message: Connector COM <*connector_no.*>: Received phone number length<*length*>.

Meaning: The router received an incoming telephone number that is too long. The router truncated the number.

Action: Check the telephone number configured on the calling side.

Entity Code/Event Code: 57/60

Severity: Warning

Message: Connector COM <connector_no.>: Received subaddress length > <length>.

Meaning: The router received a subaddress (telephone extension) that is too long. The router truncated the number.

Action: Check the subaddress configured on the calling side.

Entity Code/Event Code: 57/61

Severity: Warning

Message: Connector COM <connector_no.>: unknown char = <character>.

Meaning: The router detected an unknown character in either the telephone number or subaddress of the calling telephone number on an incoming call.

Action: Check the telephone number configuration on the calling side.

Entity Code/Event Code: 57/62

Severity: Warning

Message: Connector COM <connector_no.>: received indication too short, len = <length>

Meaning: The router received a frame that is too short to contain an ISDN command.

Entity Code/Event Code: 57/63

Severity: Warning

Message: Connector COM <connector_no.>: received unknown indication — <indication>.

Meaning: The router received an unknown ISDN command.

Entity Code/Event Code: 57/69

Severity: Warning

Message: Connector COM <connector_no.>: internal error bad mgmt type (type = <type>)

Meaning: The channel management type configured is not valid.

Action: Use Site Manager or the Technician Interface to check the channel management type.

Info Events

Entity Code/Event Code: 57/5

Severity: Info

Message: Connector COM <connector_no.>: Starting, raise dtr mode, is modem connected and turned on?

Meaning: The specified interface came up in Raise DTR mode.

Entity Code/Event Code: 57/6

Severity: Info

Message: Connector COM <connector_no.>: Site Manager requested line to be started

Meaning: You enabled force dial. The modem/terminal adapter will dial the telephone number immediately.

Entity Code/Event Code: 57/7

Severity: Info

Message: Connector COM <connector_no.>: Site Manager requested line to be stopped

Meaning: You enabled force hangup. The modem/terminal adapter will disconnect the call immediately.

Entity Code/Event Code: 57/22

Severity: Info

Message: Connector COM <connector_no.>: enable requested on cct <circuit_no.>

Meaning: The router enabled the specified circuit.

Entity Code/Event Code: 57/31

Severity: Info

Message: Connector COM <connector_no.>: Connection established.

Meaning: The router established a connection on the specified interface.

Entity Code/Event Code: 57/44

Severity: Info

Message: Connector COM <connector_no.>: Received call

Meaning: The router received a call for the specified interface.

Entity Code/Event Code: 57/46

Severity: Info

Message: Connector COM <connector_no.>: Received a connect indication (CNX)

Meaning: The router received a connect indication from the modem/terminal adapter on the specified interface.

Entity Code/Event Code: 57/51

Severity: Info

Message: Connector COM <connector_no.>: Circuit has been brought down.

Meaning: The router brought down the circuit on the specified interface.

Entity Code/Event Code: 57/52

Severity: Info

Message: Connector COM <connector_no.>: Circuit has been brought up.

Meaning: The router brought up the circuit on the specified interface.

Trace Events

Entity Code/Event Code: 57/8

Severity: Trace

Message: Connector COM <connector_no.>: configured take down time has been reached

Meaning: The takedown time configured for the connection has been reached. The router will disconnect the line.

Entity Code/Event Code: 57/18

Severity: Trace

Message: Connector COM <connector_no.>: DCE set DSR while waiting for CTS

Meaning: DSR came up while DTE was waiting for CTS. The router and the modem/terminal adapter are not in sync. If you configured a retry delay, the router disconnects the line and attempts to reestablish the connection.

Entity Code/Event Code: 57/19

Severity: Trace

Message: Connector COM <connector_no.>: DCE set DSR while waiting for IND

Meaning: DSR came up while DTE is waiting for indication or data to be available. The router and the modem/terminal adapter are not in sync. If you configured a retry delay, the router disconnects the line and attempts to reestablish the connection.

Entity Code/Event Code: 57/20

Severity: Trace

Message: Connector COM <connector_no.>: DCE set DSR while sending DIC

Meaning: DSR came up after DCE sent a DIC. The router and the modem/terminal adapter are not in sync. If you configured a retry delay, the router disconnects the line and attempts to reestablish the connection.

Entity Code/Event Code: 57/21

Severity: Trace

Message: Connector COM <connector_no.>: DCE set DSR TRUE before DTE sent <command>

Meaning: DCE set DSR before DTE sent the specified command. The router and the modem/terminal adapter are not in sync. If you configured a retry delay, the router disconnects the line and attempts to reestablish the connection.

Entity Code/Event Code: 57/26

Severity: Trace

Message: Connector COM <connector_no.>: adapter not responding with CTS line

Meaning: The router timed out while waiting for CTS.

Entity Code/Event Code: 57/27

Severity: Trace

Message: Connector COM <connector_no.>: Connection timeout, retry in progress

Meaning: The router timed out while trying to make a connection and is attempting again to make a connection.

Entity Code/Event Code: 57/28

Severity: Trace

Message: Connector COM <connector_no.>: Connection retry in progress

Meaning: The router timed out while trying to make a connection and is attempting again to make a connection.

Entity Code/Event Code: 57/29

Severity: Trace

Message: Connector COM <connector_no.>: Connection establishment time-out.

Meaning: A timeout occurred while the router was trying to establish a connection.

Entity Code/Event Code: 57/30

Severity: Trace

Message: Connector COM <connector_no.>: Connection inactivity timeout.

Meaning: The connection timed out due to inactivity.

Entity Code/Event Code: 57/32

Severity: Trace

Message: Connector COM <connector_no.>: DSR lost connection closed.

Meaning: The router is closing the connection, because it no longer sees DSR (the calling side has gone down).

Entity Code/Event Code: 57/33

Severity: Trace

Message: Connector COM <connector_no.>: Carrier lost connection closed.

Meaning: The router is closing the connection, because the carrier is lost.

Entity Code/Event Code: 57/34

Severity: Trace

Message: Connector COM <connector_no.>: DATA Available.

Meaning: Data is available on the specified interface.

Entity Code/Event Code: 57/35

Severity: Trace

Message: Connector COM <connector_no.>: Sent CRN cmd to <phone_no.>.

Meaning: The router sent a dial command on the specified interface.

Entity Code/Event Code: 57/36

Severity: Trace

Message: Connector COM <connector_no.>: Sent CIC cmd to connect call.

Meaning: The router accepted an incoming call.

Entity Code/Event Code: 57/37

Severity: Trace

Message: Connector COM <connector_no.>: Sent DIC cmd to disconnect call

Meaning: The router is disconnecting a call.

Entity Code/Event Code: 57/38

Severity: Trace

Message: Connector COM <connector_no.>: Adapter accepted CRN command

Meaning: The modem/terminal adapter accepted the CRN dial command from the router.

Entity Code/Event Code: 57/39

Severity: Trace

Message: Connector COM <connector_no.>: Adapter accepted CIC command

Meaning: The modem/terminal adapter accepted the CIC dial command from the router.

Entity Code/Event Code: 57/40

Severity: Trace

Message: Connector COM <connector_no.>: Adapter accepted DIC command

Meaning: The modem/terminal adapter has accepted the DIC dial command from the router.

Entity Code/Event Code: 57/45

Severity: Trace

Message: Connector COM <connector_no.>: Received call dropped (number not allowed)

Meaning: The router has rejected a call, because the number is not on the list of telephone numbers from which the router accepts calls. Use Site Manager or the Technician Interface to get the list of numbers that will be accepted by the router.

Entity Code/Event Code: 57/47

Severity: Trace

Message: Connector COM <connector_no.>: Received a connect fail indication (CFI)

Meaning: The router received a connect fail indication while trying to establish a connection.

Entity Code/Event Code: 57/53

Severity: Trace

Message: Connector COM <connector_no.>: CTS has come up.

Meaning: The router detected CTS.

Entity Code/Event Code: 57/54

Severity: Trace

Message: Connector COM <connector_no.>: DSR has come up.

Meaning: The router detected DTR.

Entity Code/Event Code: 57/55

Severity: Trace

Message: Connector COM <connector_no.>: Carrier has come up.

Meaning: The carrier has come up.

Entity Code/Event Code: 57/56

Severity: Trace

Message: Connector COM <connector_no.>: CTS has gone down.

Meaning: CTS has gone down on the specified interface.

Entity Code/Event Code: 57/66

Severity: Trace

Message: Connector COM <connector_no.>: retry delay in progress <no.> secs

Meaning: The router received a UP request while the line was disconnected and there is a retry delay in progress.

Action: None required. The UP will be processed after the delay period has expired.

MODULE Events

The module driver service, referred to as the MODULE entity, issues the following event messages. The entity code assigned to MODULE events is 21.

Fault Event

Entity Code/Event Code: 21/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The Module driver experienced a fatal error and is restarting automatically. The driver will attempt to restart up to five times.

Action: Verify that the configuration is correct. Determine whether the FAIL LED on each link module is off. Call Bay Networks Help Desk if the driver fails to restart.

Warning Events

Entity Code/Event Code: 21/2

Severity: Warning

Message: I/O module is not present.

Meaning: A hardware module, previously installed, is no longer present.

Action: Ensure that the hardware module is properly seated in the router or modify the configuration to represent the new module type.

Entity Code/Event Code: 21/3

Severity: Warning

Message: I/O module has been removed.

Meaning: A hardware module has been removed.

Entity Code/Event Code: 21/4

Severity: Warning

Message: I/O module PROM error.

Meaning: The module detected an error with the serial number PROM on the I/O module in the specified slot.

Action: Call Bay Networks Help Desk.

Entity Code/Event Code: 21/5

Severity: Warning

Message: I/O module is the wrong type.

Meaning: The hardware module slot number association does not match the software configuration. This is probably due to an error made during a hot swap procedure.

Action: Insert the hardware module into its previous slot or modify the configuration to represent the new module type.

Entity Code/Event Code: 21/9

Severity: Warning

Message: I/O module is not supported by this CPU platform.

Meaning: This link module is not supported by this CPU platform.

Action: Use a different link module or a different CPU platform.

Entity Code/Event Code: 21/10

Severity: Warning

Message: Bad message received by module driver.

Meaning: The module driver processes messages from the line drivers when the line drivers initialize. This event indicates that the module driver received a message which it did not recognize.

Entity Code/Event Code: 21/11

Severity: Warning

Message: Waiting for wfModuleEntry to be created on this slot.

Meaning: The configuration does not contain an instance of the MIB object wfModuleEntry for this slot. You cannot configure any interfaces on this slot unless you create an instance of wfModuleEntry from Site Manager or from the Technician Interface.

Action: Create an instance of wfModuleEntry for this slot from Site Manager or from the Technician Interface.

Entity Code/Event Code: 21/13

Severity: Warning

Message: Could not read Module Serial Number Prom in Module Location <location>.

Meaning: Although the serial number PROM exists in the specified module location, it could not be read. The interface(s) on this network module will not be brought up.

Action: Contact Bay Networks Help Desk.

Info Events

Entity Code/Event Code: 21/6

Severity: Info

Message: <module> I/O module is present.

Meaning: The hardware module indicated, previously removed, is present.

Entity Code/Event Code: 21/7

Severity: Info

Message: Service initializing.

Meaning: The module driver is initializing.

NBASE Events

The NBASE entity issues the following event messages. The entity code assigned to NBASE events is 75.

Fault Event

Entity Code/Event Code: 75/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The NBASE driver experienced a fatal error and is restarting automatically. The driver will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call the Bay Networks Help Desk if the NBASE driver fails to restart.

Info Events

Entity Code/Event Code: 75/2

Severity: Info

Message: NBASE Service initializing.

Meaning: NBASE is starting.

Entity Code/Event Code: 75/3

Severity: Info

Message: NBASE Service terminating.

Meaning: NBASE is stopping.

NBIP Events

The NetBIOS over IP service, referred to as the NBIP entity, issues the following event messages. The entity code assigned to NBIP events is 77.

Fault Event

Entity Code/Event Code: 77/1

Severity: Fault

Message: System Error, service attempting restart

Meaning: The router experienced the fatal error *<fatal_error_message>* and is restarting automatically. The router will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if the router fails to restart.

Warning Events

Entity Code/Event Code: 77/2

Severity: Warning

Message: Invalid NetBIOS over IP packet received

Meaning: NetBIOS has detected a packet with an invalid format such as a corrupted length or offset information.

Action: Analyze the network for the offending station.

Entity Code/Event Code: 77/3

Severity: Warning

Message: Invalid NetBIOS over IP name

Meaning: An illegal name was configured for a static NetBIOS name entry.

Action: Check and, if necessary, redo the configuration.

Info Events

Entity Code/Event Code: 77/4

Severity: Info

Message: Service initializing

Meaning: The NBIP entity is executing startup procedures which include reading pertinent information and starting NBIP interface where appropriate.

Entity Code/Event Code: 77/5

Severity: Info

Message: Interface %d.%d.%d.%d up

Meaning: A given NBIP interface that is associated with the displayed interface has been created, initialized, and activated.

Entity Code/Event Code: 77/6

Severity: Info

Message: Interface %d.%d.%d.%d down

Meaning: A given NBIP interface that is associated with the displayed interface has been disabled.

Entity Code/Event Code: 77/7

Severity: Info

Message: Service terminating

Meaning: All NBIP functionality has stopped.

NML Events

The Native Mode LAN service, referred to as the NML entity, issues the following event message. The entity code assigned to NML events is 81.

Fault Event

Entity Code/Event Code: 81/1

Severity: Fault

Message: System error, service attempting restart

Meaning: Native Mode LAN experienced a fatal error and is restarting automatically. Native Mode LAN will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if Native Mode LAN fails to restart.

NOV_SYNC Events

The Non-Volatile Random Access Memory Synchronization service, referred to as the NOV_SYNC entity, issues the following event messages. The entity code assigned to NOV_SYNC events is 61.

Fault Event

Entity Code/Event Code: 61/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The NOV_SYNC driver experienced a fatal error and is restarting automatically. NOV_SYNC will attempt to restart up to five times.

Action: Contact Bay Networks Help Desk if this condition persists.

Info Event

Entity Code/Event Code: 61/2

Severity: Info

Message: Service Initializing

Meaning: NOV_SYNC is initializing.

NVFS Events

The Non-Volatile File System service, referred to as the NVFS entity, issues the following event messages. The entity code assigned to NVFS events is 11.

Fault Event

Entity Code/Event Code: 11/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: NVFS experienced a fatal error and is restarting automatically. NVFS will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call the Bay Networks Help Desk in your area if NVFS fails to restart.

Warning Events

Entity Code/Event Code: 11/2

Severity: Warning

Message: File System is in a corrupt state, re-format.

Meaning: The files on the flash card are corrupted.

Action: Issue the **compact** command. If the message reappears, issue the **erase** command and restore the files from a backup file system.

Entity Code/Event Code: 11/3

Severity: Warning

Message: Flash compact failed: error status = `<error_code>`

Meaning: The file management system driver failed to execute the **compact** command. The files on the flash card may be corrupted.

Action: Issue the **erase** command and restore the files from a backup file system. If the **erase** command fails, replace the flash card and restore the files.

Entity Code/Event Code: 11/4

Severity: Warning

Message: Flash format failed: address = *<physical_address>*, error status = *<error_code>*

Meaning: The file management system driver failed to execute the **format** command. The flash card may be corrupted.

Action: Replace the flash card and restore the files from a backup file system.

Entity Code/Event Code: 11/7

Severity: Warning

Message: Beginning NVFS compaction.

Meaning: NVFS is executing a request to compact (concatenate) the file system on a flash card and cannot accept further requests until it terminates the request.

Action: Wait for NVFS compaction completed message.

Entity Code/Event Code: 11/8

Severity: Warning

Message: NVFS compaction completed.

Meaning: NVFS successfully executed the compact request.

Action: No action necessary. You can now store other files that fit within the contiguous free space remaining on the selected volume.

Entity Code/Event Code: 11/39

Severity: Warning

Message: *<flash_card_volume>*File system is in a corrupt state, re-format.

Meaning: The files on the flash card are corrupted.

Action: Issue the **compact** command. If the message reappears, issue the **erase** command and restore the files from a backup file system.

Entity Code/Event Code: 11/40

Severity: Warning

Message: *<flash_card_volume>*Memory card compact failed: error status = *<error_code>*Meaning: The file management system driver failed to execute the **compact** command. The files or flash card may be corrupted.Action: Issue the **erase** command and restore the files from a backup file system. If the **erase** command fails, replace the flash card and restore the files.**Entity Code/Event Code: 11/41**

Severity: Warning

Message: *<flash_card_volume>*Memory card format failed: address = *<physical_address>*, error status = *<error_code>*Meaning: The file management system driver failed to execute the **format** command. The flash card may be corrupted.

Action: Replace the flash card and restore the files from a backup file system.

Entity Code/Event Code: 11/44

Severity: Warning

Message: *<flash_card_volume>* Beginning memory card compaction process.

Meaning: NVFS is executing a request to compact (concatenate) the files on a flash card and cannot accept further requests until it terminates the request.

Action: Wait for NVFS compaction completed message.

Entity Code/Event Code: 11/45

Severity: Warning

Message: *<flash_card_volume>*Memory card compaction completed.

Meaning: NVFS successfully executed the compact request.

Action: No action necessary. You can now store other files that fit within the contiguous free space remaining on the selected volume.

Entity Code/Event Code: 11/66

Severity: Warning

Message: FRE-I board(s) must be at least revision 29 to use this Flash Card

Meaning: There is a hardware problem with FRE-I boards with a revision less than 29 that prevents the card's attribute memory from being accessed by the flash driver. The attribute memory is required for Series II flash card support.

Action: Remove the offending card from the system. The router logs the message continuously until you remove the card.

Entity Code/Event Code: 11/67

Severity: Warning

Message: Unable to determine size of card because of invalid CIS

Meaning: Wellfleet requires that all Series II flash cards must provide a valid Card Information Structure (CIS) in the card's attribute memory.

Action: Remove the offending card from the system. The router logs the message continuously until you remove the card.

Entity Code/Event Code: 11/76

Severity: Warning

Message: <flash_card_volume> NVFS media contains partition which is not supported on this platform.

Meaning: The indicated flash card contains a partition between two logical volumes, but this router does not support a partitioned flash file system.

Action: Replace the partitioned card with a nonpartitioned card.

Info Events

Entity Code/Event Code: 11/5

Severity: Info

Message: Service initializing.

Meaning: NVFS is initializing.

Entity Code/Event Code: 11/6

Severity: Info

Message: Service terminating.

Meaning: NVFS is terminating.

Entity Code/Event Code: 11/7

Severity: Info

Message: Beginning NFVS compaction process.

Meaning: NVFS is executing a request to compact (concatenate) the file system on a flash card and cannot accept further requests until it terminates the request.

Entity Code/Event Code: 11/8

Severity: Info

Message: NVFS compaction completed.

Meaning: NVFS successfully executed the compact request.

Entity Code/Event Code: 11/42

Severity: Info

Message: <flash_card_volume>Service initializing.

Meaning: NVFS is initializing.

Entity Code/Event Code: 11/43

Severity: Info

Message: <flash_card_volume>Service terminating.

Meaning: NVFS is terminating.

Entity Code/Event Code: 11/44

Severity: Info

Message: <flash_card_volume>Beginning memory card compaction process.

Meaning: NVFS is executing a request to compact (concatenate) the file system on a flash card and cannot accept further requests until it terminates the request.

Entity Code/Event Code: 11/45

Severity: Info

Message: <flash_card_volume>Memory card compaction completed.

Meaning: NVFS successfully executed the compact request.

OSI Events

The Open Systems Interconnection service, referred to as the OSI entity, issues the following event messages. The entity code assigned to OSI events is 38.

Fault Event

Entity Code/Event Code: 38/1

Severity: Fault

Message: System Error, service attempting restart

Meaning: OSI experienced a fatal error and is restarting automatically. OSI will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if OSI fails to restart.

Info Events

Entity Code/Event Code: 38/2

Severity: Info

Message: Starting IS-IS on cct <circuit_no.>.

Meaning: The router enabled the Intermediate System to Intermediate System Intra-Domain Routing Exchange Protocol (ISO 10589) on circuit <circuit_no.>.

Entity Code/Event Code: 38/3

Severity: Info

Message: Stopping IS-IS on circuit <ircuit_no.>.

Meaning: The router disabled the Intermediate System to Intermediate System Intra-Domain Routing Exchange Protocol (ISO 10589) on circuit <ircuit_no.>.

Entity Code/Event Code: 38/4

Severity: Info

Message: Starting L1 decision process.

Meaning: The router started the Level 1 decision process. During the decision process, the OSI router uses the link state database information that it has accumulated during the update process to (1) define a set of paths from the router to every reachable destination in the area; (2) calculate the shortest path to each destination; and (3) record the identity of the first hop on the shortest path to each destination into a forwarding database.

Entity Code/Event Code: 38/5

Severity: Info

Message: Starting L2 decision process.

Meaning: The router started the Level 2 decision process. During the decision process, the OSI router uses the link state database information that it has accumulated during the update process to (1) define a set of paths from the router to every reachable destination in the domain; (2) calculate the shortest path to each destination; and (3) record the identity of the first hop on the shortest path to each destination into a forwarding database.

Entity Code/Event Code: 38/104

Severity: Info

Message: Protocol terminating.

Meaning: OSI is terminating.

Entity Code/Event Code: 38/105

Severity: Info

Message: Protocol initializing.

Meaning: OSI is initializing.

Entity Code/Event Code: 38/106

Severity: Info

Message: Interface up on circuit <ircuit_no.>.

Meaning: OSI came up on the specified circuit.

Entity Code/Event Code: 38/107

Severity: Info

Message: Interface down on circuit <ircuit_no.>.

Meaning: OSI went down on the specified circuit.

Entity Code/Event Code: 38/108

Severity: Info

Message: Starting DECnet 4 to 5 transition feature.

Meaning: The router enabled the DECnet IV to V transition feature.

Entity Code/Event Code: 38/109

Severity: Info

Message: Stopping DECnet 4 to 5 transition feature.

Meaning: The router disabled the DECnet IV to V transition feature.

Trace Events

Entity Code/Event Code: 38/96

Severity: Trace

Message: OSI TF — Rule <filter_rule_no.>, Cct <ircuit_no.> (Drop packet).

Meaning: A traffic filter match occurred on rule <filter_rule_no.>. The action defined is drop the packet.

Entity Code/Event Code: 38/97

Severity: Trace

Message: OSI TF — Rule <filter_rule_no.>, Cct <circuit_no.> (Log only)

Meaning: A traffic filter match occurred on rule <filter_rule_no.>. The action defined is log a message.

Entity Code/Event Code: 38/110

Severity: Trace

Message: Rule <filter_rule_no.>, Cct <circuit_no.> (Accept packet).

Meaning: A traffic filter match occurred on rule <filter_rule_no.>. The action defined is accept the packet.

OSPF Events

The Open Shortest Path First service, referred to as the OSPF entity, issues the following event messages. The entity code assigned to OSPF events is 12. Refer to the following table when looking up OSPF events.

**A message
beginning
with...**

Falls into this category

T#	Topological change in routing domain.
C1	Packet rejected, errors in IP/OSPF header.
C2	Hello packet rejected, mismatch between packet and configured parameters.
C3	DD, LS_REQ, LS_ACK, LS_UP packet rejected, source neighbor in wrong state.
R#	Router restarted, losing track of previous LS sequence number.

Fault Event

Entity Code/Event Code: 12/32

Severity: Fault

Message: System error, service attempting restart.

Meaning: OSPF experienced a fatal error and is restarting automatically. OSPF will attempt to restart up to five times.

Action: Call Bay Networks Help Desk if OSPF fails to restart.

Warning Events

Entity Code/Event Code: 12/44

Severity: Warning

Message: C1: Packet Rejected: IP Hdr: BAD OSPF PKT TYPE: *<type_value>*
src *<source_IP_address>* dst *<destination_IP_address>* routerid *<router_IP_address>*

Meaning: OSPF rejected a packet originated by OSPF router *<router_IP_address>* whose IP source and destinations are specified by *<source_IP_address>* and *<destination_IP_address>*. The packet was rejected because the Type field of the OSPF header contained a value other than the following:

- 1 Hello packet
- 2 Database Description packet
- 3 Link State Request packet
- 4 Link State Update packet
- 5 Link State Acknowledgment packet

Action: Check the neighboring router; it is creating bad packets.

Entity Code/Event Code: 12/45

Severity: Warning

Message: C1: Packet Rejected: IP Hdr: BAD IP DEST
src <source_IP_address> dst <destination_IP_address> routerid <router_IP_address>

Meaning: OSPF rejected a packet originated by OSPF router <router_IP_address> whose IP source and destinations are specified by <source_IP_address> and <destination_IP_address>. The packet was rejected because of an incorrect or unknown IP destination address.

Action: This error message may indicate a network configuration problem. Check that the router specified by <router_IP_address> and this router have the same interface type (point-to-point, broadcast, nonbroadcast multiaccess, and point-to-multipoint). Otherwise, the destination address does not match our configured address.

Entity Code/Event Code: 12/46

Severity: Warning

Message: C1: Packet Rejected: IP Hdr: PKT SRC = MY IP ADDR
src <source_IP_address> dst <destination_IP_address> routerid <router_IP_address>

Meaning: OSPF rejected a packet originated by an OSPF router <router_IP_address> whose IP source and destinations are specified by <source_IP_address> and <destination_IP_address>. The packet was rejected because the IP source address matches the router's own address.

Action: This error message may indicate a network configuration problem. Check your configuration.

Entity Code/Event Code: 12/47

Severity: Warning

Message: C1: Packet Rejected: BAD OSPF VERSION ver: <version_no.> src
<source_IP_address> dst <destination_IP_address> routerid <router_IP_address>

Meaning: OSPF rejected a packet originated by OSPF router <router_IP_address> whose IP source and destinations are specified by <source_IP_address> and <destination_IP_address>. The packet was rejected because the Version field of the OSPF header contained an unknown or unsupported value, <version_no.>.

Action: This error message may indicate a network configuration problem. Check your configuration.

Entity Code/Event Code: 12/48

Severity: Warning

Message: C1: Packet Rejected: CHECKSUM FAILURE
src <source_IP_address> dst <destination_IP_address> routerid <router_IP_address>

Meaning: OSPF rejected a packet originated by OSPF router <router_IP_address> whose IP source and destinations are specified by <source_IP_address> and <destination_IP_address>. The packet was rejected because the packet has an incorrect checksum.

Action: This error message may indicate a network configuration problem or faulty lines. Check both your configuration and your lines.

Entity Code/Event Code: 12/49

Severity: Warning

Message: C1: Packet Rejected: AREA MISMATCH <area_id>
src <source_IP_address> dst <destination_IP_address> routerid <router_IP_address>

Meaning: OSPF rejected a packet originated by OSPF router <router_IP_address> whose IP source and destinations are specified by <source_IP_address> and <destination_IP_address>. The packet was rejected because the Area ID field of the OSPF header neither matched the Area ID of the receiving interface nor indicated the backbone (area 0.0.0.0).

Action: This message may indicate a network configuration problem. Check the *config* file to make sure the proper area IDs are configured.

Entity Code/Event Code: 12/50

Severity: Warning

Message: C1: Packet Rejected: BAD VIRTUAL INFO
src <source_IP_address> dst <destination_IP_address> routerid <router_IP_address>

Meaning: Either no virtual link has been configured for this neighbor and transit area, or there is a faulty configuration on the other side.

Action: Check your *config* file to make sure that this virtual link's <router_IP_address> is the correct nbr_id. If it is not, the <router_IP_address> router may be incorrectly configured. If the <router_IP_address> is correct, check to see that the config names <router_IP_address> to be the neighbor. Also, check that the virtual link transit area is the same as the <area> configured for the interface at each end of the link. If you have not configured a virtual link for this interface, check the configuration on both routers to make sure the areas are properly configured.

Entity Code/Event Code: 12/51

Severity: Warning

Message: C1: Packet Rejected: AUTH TYPE <rcvd_type>
src <source_IP_address> dst <destination_IP_address> routerid <router_IP_address>

Meaning: OSPF rejected a packet originated by OSPF router <router_IP_address> whose IP source and destinations are specified by <source_IP_address> and <destination_IP_address>. The packet was rejected because the Authtype field (whose contents are echoed in <rcvd_type>) of the OSPF header did not match the configured type. Authtype values are as follows:

- No authentication
- Simple Password

Action: This error message may indicate a network configuration problem. Check the *config* file to make sure that the Authtype for this area is the same as that of <router_IP_address>.**Entity Code/Event Code: 12/52**

Severity: Warning

Message: C1: Packet Rejected: AUTH KEY <rcvd_key>
src <source_IP_address> dst <destination_IP_address> routerid <router_IP_address>

Meaning: OSPF rejected a packet originated by OSPF router <router_IP_address>, whose IP source and destinations are specified by <source_IP_address> and <destination_IP_address>. The packet was rejected because the Authentication field (whose contents are echoed in <rcvd_key>) of the OSPF header did not match the authentication key configured for this interface.

Action: This error message may indicate a network configuration problem. Check the *config* file to make sure the correct key is configured for this interface. If the key is correct, check the configuration of <router_IP_address>.

Entity Code/Event Code: 12/53

Severity: Warning

Message: C2: Hello Rejected: NETMASK MISMATCH
src <source_IP_address>:<netmask> interface <IP_address>: <netmask>

Meaning: OSPF rejected an incoming Hello packet originated by router <source_IP_address> and received on interface <IP_address>. The packet was rejected because the Network Mask field of the Hello packet did not match the network mask configured for the interface.

Action: Check the router specified by <IP_address> for configuration problems, or modify the Network Mask for this IP network in the IP record.

Entity Code/Event Code: 12/54

Severity: Warning

Message: C2: Hello Rejected: HELLO INTERVAL MISMATCH
src <source_IP_address> (x) interface <IP_address> (y)

Meaning: OSPF rejected an incoming Hello packet originated by router <source_IP_address> and received on interface <IP_address>. The packet was rejected because the HelloInt field of the Hello packet(x) did not match the Hello Interval configured for the interface (y).

Action: Check the router specified by <IP_address> for configuration problems, or modify the Hello Interval portion of the OSPF interface record for this interface.

Entity Code/Event Code: 12/55

Severity: Warning

Message: C2: Hello Rejected: DEAD INTERVAL MISMATCH
src <source_IP_address> (x) interface <IP_address> (y)

Meaning: OSPF rejected an incoming Hello packet originated by router <source_IP_address> and received on interface <IP_address>. The packet was rejected because the DeadInt field of the Hello packet (x) did not match the Dead Interval configured for the interface (y).

Action: Reconfigure the Dead Interval for either this interface or the router specified by <source_IP_address>.

Entity Code/Event Code: 12/56**Severity:** Warning**Message:** C2: Hello Rejected: EXTERN OPTION MISMATCH
src <source_IP_address> (x) interface <IP_address> (y)**Meaning:** OSPF rejected an incoming Hello packet originated by router <source_IP_address> and received on interface <IP_address>. The packet was rejected because the Options field E-bit for the originating router (x) did not match the Options field E-bit for the local router (y).**Action:** Determine which router has the incorrect Option E and reconfigure it. The E-bit is set to indicate that the attached area is capable of processing AS external advertisements (that is, it is not a stub area). In this message, a value of 0 for (x) indicates that the originating router thinks this area is a stub area. All routers in an area must agree on the setting of the E-bit.**Entity Code/Event Code: 12/57****Severity:** Warning**Message:** C2: Hello Rejected: UNKNOWN VIRTUAL NBR
src <source_IP_address> interface <IP_address>**Meaning:** OSPF rejected an incoming Hello packet originated by router <source_IP_address> and received on interface <IP_address>. The packet was rejected because it was received from an unknown virtual neighbor. The interface is down; the virtual link will come up when this neighbor is reconfigured as an area border router.**Action:** If you get this message continually, check to make sure that the router specified by <source_IP_address> is properly configured.

Entity Code/Event Code: 12/58

Severity: Warning

Message: C2: Hello Rejected: UNKNOWN NBMA NBR
src <IP_src_address> interface <IP_address>

Meaning: OSPF rejected an incoming Hello packet originated by router <source_IP_address> and received on this nonbroadcast multiaccess interface <IP_address>. The packet was rejected because it was received from an unknown neighbor. NBMA neighbors need to be configured.

Action: The router specified by src <IP_address> has this interface, specified by interface <IP_address>, as its neighbor. Add a statically defined neighbor for this interface, or reconfigure the interface type to Broadcast or Point-to-Point.

Entity Code/Event Code: 12/59

Severity: Warning

Message: C3: Packet Rejected: UNKNOWN NBR
src <source_IP_address> type <packet_type>

Meaning: OSPF received and rejected a Database Description, a Link State Request, a Link State Acknowledgment, or a Link State Update packet identified by <packet_type> from a neighbor, identified by <source_IP_address>, with which it has not established an adjacency.

Entity Code/Event Code: 12/60

Severity: Warning

Message: C3: Packet Rejected: SOURCE NEIGHBOR IN WRONG STATE
src <source_IP_address> state <state> type <packet_type>

Meaning: OSPF received and rejected a Database Description, a Link State Request, a Link State Acknowledgment, or a Link State Update packet, identified by <packet_type> from a neighbor identified by <source_IP_address>, who is in the wrong state with this router to generate this packet.

Action: This message generally indicates that the identity of the network's Designated Router has changed, causing transient disagreements between adjacencies. This is temporary; the routers will synchronize soon. No action is required.

Entity Code/Event Code: 12/61

Severity: Warning

Message: C3: Packet Rejected: NBR's RTR = MY RTRID
src <source_IP_address> type <packet_type> rtrid <router_IP_address>

Meaning: OSPF received and rejected a Database Description, a Link State Request, a Link State Acknowledgment, or a Link State Update identified by <packet_type>, from a neighbor, identified by <source_IP_address>, whose router ID is the same as this router's ID.

Action: Check both routers' Router ID Configuration parameter.

Entity Code/Event Code: 12/62

Severity: Warning

Message: C3: Packet Rejected: DD: EXTERN OPTION MISMATCH
src <source_IP_address> interface <IP_address>

Meaning: OSPF received and rejected a Database Description packet originated by <source_IP_address> and received on interface <IP_address>. The packet was rejected because the local and originating routers disagree on the state of the Options field E-bit.

Action: Determine which router has the incorrect Option field E-bit by checking each router's configuration. The E-bit is set to indicate that the attached area is capable of processing AS external advertisements (that is, it is not a stub area). All routers within an area must agree on the setting of the E-bit.

Entity Code/Event Code: 12/63

Severity: Warning

Message: C3: Packet Rejected: LS REQ: EMPTY REQUEST
src <source_IP_address> Link State Request

Meaning: OSPF received and rejected a Link State Request packet originated by <source_IP_address>. The packet was rejected because it contained no data beyond the packet header.

Action: This is just a warning message that the neighboring router has constructed a link state request packet with no contents. If this message continues to be received, check the neighboring router.

Entity Code/Event Code: 12/64

Severity: Warning

Message: C3: Packet Rejected: LS REQ: BAD PACKET
src <source_IP_address> type <LS_type>

Meaning: OSPF received and rejected a Link State Request packet originated by <source_IP_address>. Either the <LS_type> is bad, or the advertisement cannot be found in the Link State database. If the <LS_type> number is 1 through 5, then this LSA was not found in the Link State database. If the <LS_type> number was a number other than 1 through 5, then the type field is bad. <LS_type> normally contains one of five possible values, as follows:

- 1 Router links advertisement (LS_RTR)
- 2 Network links advertisement (LS_NET)
- 3 Network summary links advertisement (LS_SUM_NET)
- 4 AS boundary summary links advertisement (LS_SUM_ASB)
- 5 External links advertisement (LS_ASE)

Action: If the <LS_type> is 1 through 5, then the routers are not synchronized. The router specified by <IP_address> is requesting an LSA that had been advertised as being in this router's database. The routers should synchronize soon. If the <LS_type> is not 1 through 5, then the neighboring router is sending bad packets. Check the neighboring router; its database may be corrupted.

Entity Code/Event Code: 12/65

Severity: Warning

Message: C3: Packet Rejected: LS UPDATE: BAD LS CHECKSUM area <area_id> ls_id <LS_ID> adv_rtr <router_IP_address> type <type> src <source_IP_address> ls_seq: <seq_no> ls_age <age> ls_chksum: <value> orig_chk: <value>

Meaning: OSPF received and rejected a Link State Request packet originated by <source_IP_address>. The packet was rejected because one of the advertisements contained a faulty checksum value. <LS_type> contains one of the five following values, which indicates the type of advertisement that had the incorrect checksum.

- 1 Router links advertisement (LS_RTR)
 - 2 Network links advertisement (LS_NET)
 - 3 Network summary links advertisement (LS_SUM_NET)
 - 4 AS boundary summary links advertisement (LS_SUM_ASB)
-

5 External links advertisement (LS_ASE)

Action: The neighboring router has an advertisement with a bad checksum in its database. Check the neighboring router for problems. No action is required for this router.

Entity Code/Event Code: 12/67

Severity: Warning

Message: C3: Packet Rejected: <PACKET TYPE>: UNKNOWN TYPE
src <source_IP_address> type <LS_type>

Meaning: OSPF received and rejected a Database Description, a Link State Request, a Link State Acknowledgment, or a Link State Update packet identified by <LS_type> from a neighbor identified by <source_IP_address>. The link state type in the packet was not one of the valid types:

- 1 Router links advertisement (LS_RTR)
- 2 Network links advertisement (LS_NET)
- 3 Network summary links advertisement (LS_SUM_NET)
- 4 AS boundary summary links advertisement (LS_SUM_ASB)
- 5 External links advertisements (LS_ASE)

Action: Check the neighboring router for problems; it is sending bad packets.

Info Events

Entity Code/Event Code: 12/33

Severity: Info

Message: Protocol initializing.

Meaning: OSPF is initializing.

Entity Code/Event Code: 12/34

Severity: Info

Message: Protocol terminating.

Meaning: OSPF is terminating.

Entity Code/Event Code: 12/35

Severity: Info

Message: Interface <IP_address> up on circuit <circuit>.

Meaning: OSPF has come up on the specified circuit.

Entity Code/Event Code: 12/36

Severity: Info

Message: Interface <IP_address> down on circuit <circuit>.

Meaning: OSPF has gone down on the specified circuit.

Entity Code/Event Code: 12/75

Severity: Info

Message: Primary initializing

Meaning: The OSPF primary is initializing.

Entity Code/Event Code: 12/76

Severity: Info

Message: Backup Initializing

Meaning: The OSPF backup is initializing.

Entity Code/Event Code: 12/77

Severity: Info

Message: Primary death (old_gh: <gate_handle_no.> new_gh: <gate_handle_no.>
Backup=>Primary transition

Meaning: The OSPF Primary has died; the OSPF Backup is transitioning into Primary state.

Entity Code/Event Code: 12/78

Severity: Info

Message: Primary death (old_gh: <gate_handle_no.> new_gh: <gate_handle_no.> Backup
database invalid.

Meaning: The OSPF Primary has died; the OSPF has been unable to transition into Primary state.

Entity Code/Event Code: 12/79

Severity: Info

Message: Backup load completed from Primary on slot <slot_no.>

Meaning: The OSPF Backup load has been completed on the specified router slot.

Entity Code/Event Code: 12/80

Severity: Info

Message: Primary received load request from Backup on slot <slot_no.>

Meaning: The OSPF Primary received a load request from the OSPF Backup on the specified router slot.

Trace Events

Entity Code/Event Code: 12/38

Severity: Trace

Message: T1: IP Interface <IP_address> Type: <interface_type> Event: <OSPF_event> State change: <state_1> to <state_2>

Meaning: The OSPF interface, of type <interface_type>, specified by <IP_address>, has transitioned from <state_1> to <state_2>. The state change was precipitated by <OSPF_event>. Interface states (BackupDr, Down, DR, DR Other, Loopback, PtoP, and Waiting) are described in Section 9.1 of RFC 1247; events that cause interface state changes (Backup Seen, Interface Down, Interface Up, Loop Indication, Neighbor Change, Unloop Indication, and Wait Timer) are described in Section 9.2 of RFC 1247.

Entity Code/Event Code: 12/39

Severity: Trace

Message: T2: Neighbor <IP_address> Event: <OSPF_event> State change: <state_1> to <state_2>

Meaning: OSPF has detected a state change, in the neighbor identified by <IP_address>, from <state_1> to <state_2>. The state change was precipitated by <OSPF_event>. Neighbor states (Down, Attempt, Init, 2 Way, Exch Start, Exchange, Loading, Full, and SCVirtual) are described in Section 10.1 of RFC 1247. Events that cause neighbor state changes (Hello Received, Start, Two Way Received, Adjacency OK, Negotiation Done, Seq no. Mismatch, Bad LS Request, Loading Done, One way, Reset Adjacency, Kill Neighbor, Inactivity Timer and Lower Level Down) are described in Section 10.2 of RFC 1247.

Entity Code/Event Code: 12/40

Severity: Trace

Message: T3: <Backup>Designated Router changed on network: <IP_address> <old_router_IP_address> to <new_router_IP_address>

Meaning: The Designated Router (or the Backup Designated Router) has changed on the network specified by <IP_address>. <old_router_IP_address> identifies the previous DR or BDR, while <new_router_IP_address> identifies the new DR or BDR.

Entity Code/Event Code: 12/41

Severity: Trace

Message: T4: Originating new LSA — type <LS_type> LSID <LS_ID> router <router_IP_address>

Meaning: OSPF is originating a new instance of a link state advertisement. <router_IP_address> identifies the advertising router. <LS_type> contains one of five possible values, as follows:

- 1 Router links advertisement (LS_RTR)
- 2 Network links advertisement (LS_NET)
- 3 Network summary links advertisement (LS_SUM_NET)
- 4 AS boundary summary links advertisement (LS_SUM_ASB)
- 5 External links advertisement (LS_ASE)

Depending upon <LS_type>, <LS_ID> contains an IP address as follows:

LS_type	LS_ID
---------	-------

-
- | | |
|---|---|
| 1 | Router ID of the originating router |
| 2 | IP interface address of network's DR |
| 3 | IP address of destination network |
| 4 | Router ID of the described AS boundary router |
| 5 | IP address of destination network |

Entity Code/Event Code: 12/42

Severity: Trace

Message: T5: Received new LSA- type <LS_type> ls_id <LS_ID> router <router_IP_address> neighbor <IP_address>

Meaning: OSPF received a Link State Update packet (originated by <router_IP_address>) from the neighbor identified by <IP_address> and has recalculated its routing table. <LS_type> contains one of five possible values, as follows:

- | | |
|---|--|
| 1 | Router links advertisement (LS_RTR) |
| 2 | Network links advertisement (LS_NET) |
| 3 | Network summary links advertisement (LS_SUM_NET) |
| 4 | AS boundary summary links advertisement (LS_SUM_ASB) |
| 5 | External links advertisement (LS_ASE) |

Depending upon <LS_type>, <LS_ID> contains an IP address, as follows:

- | LS_type | LS_ID |
|---------|---|
| 1 | Router ID of the originating router |
| 2 | IP interface address of network's DR |
| 3 | IP address of destination network |
| 4 | Router ID of the described AS boundary router |
| 5 | IP address of destination network |
-

Entity Code/Event Code: 12/43

Severity: Trace

Message: T6: Routing Table changed — type <LS_type> dst <destination_IP_address> old <old_next_hop> new <new_next_hop>

Meaning: OSPF has changed an entry in IP's routing table. <IP_address> identifies the changed entry, while <LS_type> specifies the link state type (LS_RTR, LS_NET, LS_SUM_NET, LS_SUM_ASB or LS_ASE). <old_next_hop> and <new_next_hop> specify the IP addresses of the old and new next-hop routers. <LS_type> contains one of five possible values, as follows:

- 1 Router links advertisement (LS_RTR)
- 2 Network links advertisement (LS_NET)
- 3 Network summary links advertisement (LS_SUM_NET)
- 4 AS boundary summary links advertisement (LS_SUM_ASB)
- 5 External links advertisement (LS_ASE)

Entity Code/Event Code: 12/66

Severity: Trace

Message: C3: Packet Rejected: LS UPDATE: LESS RECENT RX <self orig lsa/not my lsa> src <IP_address> type <LS_type>ls_id: <LS_ID> adv_rtr <IP_address>

ls_seq: ls_age:
 db_seq: db_age: elapse:
 freeme: ackcnt: nbr_retrans: nbrEcnt: Fcnt:

Meaning: OSPF received and rejected a Link State Update packet originated by <source_IP_address>. The Link State Update received is less recent than this advertisement in the currently stored database. This is not an abnormal condition; when routers go up and down, their neighboring routers will contain their database. When the exchange process begins, the neighboring router will advertise the router's original database. The routers will soon synchronize.

- self orig LSA* indicates that this LSA is one that this router originated.
- not my LSA* indicates that this LSA is not one that this router originated.
- ls_seq* sequence of the received LSA.
- ls_age* age of the received LSA.
- db_seq* sequence of the LSA in the database.

<i>db_age</i>	age of the LSA in the database.
<i>elapse</i>	number of seconds since the LSA in the database was updated or added.
<i>freeme</i>	if "1", indicates that this entry is marked to be deleted from the database.
<i>ackcnt</i>	number of acknowledgments that are outstanding.
<i>nbr_retrans</i>	if "1", indicates that this LSA is on a neighbor retransmission queue.
<i>nbrEcnt</i>	number of neighbors that are in the Exchange state or greater.
<i>Fcnt</i>	number of neighbors in the Full state.

Entity Code/Event Code: 12/68

Severity: Trace

Message: R3: Received more recent self-originated LSA: type *<LS_type>* ls_id *<LS_ID>* router *<router_IP_address>* neighbor *<IP_address>*

Meaning: OSPF received (from the neighbor identified by *<IP_address>*) a more recent instance of a self-generated advertisement. *<router_IP_address>* identifies the advertising router. *<LS_type>* contains one of five possible values, as follows:

- | | |
|---|--|
| 1 | Router links advertisements (LS_RTR) |
| 2 | Network links advertisement (LS_NET) |
| 3 | Network summary links advertisement (LS_SUM_NET) |
| 4 | AS boundary summary links advertisement (LS_SUM_ASB) |
| 5 | External links advertisement (LS_ASE) |

Depending upon *<LS_type>*, *<LS_ID>* contains an IP address, as follows:

LS_type	LS_ID
1	Router ID of the originating router
2	IP interface address of network's DR
3	IP address of destination network
4	Router ID of the described AS boundary router
5	IP address of destination network

This message generally indicates that the router has restarted and lost track of its previous link state advertisement sequences. No action is required. OSPF increments the received sequence number and generates a new advertisement. Persistent messages of this type may indicate duplicate router IDs within the network.

Entity Code/Event Code: 12/69

Severity: Trace

Message: R4: Ack received for non-existent LSA: type <LS_type> LSID <LS_ID> neighbor <IP_address>

Meaning: OSPF received an acknowledgment from the neighbor identified by <IP_address> for the instance of an advertisement not currently found in the database. <LS_type> contains one of five possible values, as follows:

- 1 Router links advertisement (LS_RTR)
- 2 Network links advertisement (LS_NET)
- 3 Network summary links advertisement (LS_SUM_NET)
- 4 AS boundary summary links advertisement (LS_SUM_ASB)
- 5 External links advertisement (LS_ASE)

Depending upon <LS_type>, <LS_ID> contains an IP address, as follows:

- | LS_type | LS_ID |
|---------|---|
| 1 | Router ID of the originating router |
| 2 | IP interface address of network's DR |
| 3 | IP address of destination network |
| 4 | Router ID of the described AS boundary router |
| 5 | IP address of destination network |

This message generally indicates that the router has restarted and lost track of its previous link state advertisement sequences. As such, no action is required. Persistent messages of this type may indicate duplicate router IDs within the network.

Entity Code/Event Code: 12/70

Severity: Trace

Message: N3: LSA of MaxAge flushed: type <LS_type> LSID <LS_ID> router <router_IP_address>

Meaning: OSPF has removed an advertisement of MaxAge from its database. <router_IP_address> identifies the advertising router. <LS_type> contains one of five possible values, as follows:

- 1 Router links advertisement (LS_RTR)
- 2 Network links advertisement (LS_NET)

- 3 Network summary links advertisement (LS_SUM_NET)
- 4 AS boundary summary links advertisement (LS_SUM_ASB)
- 5 External links advertisement (LS_ASE)

Depending upon *<LS_type>*, *<LS_ID>* contains an IP address, as follows:

- | LS_type | LS_ID |
|---------|---|
| 1 | Router ID of the originating router |
| 2 | IP interface address of network's DR |
| 3 | IP address of destination network |
| 4 | Router ID of the described AS boundary router |
| 5 | IP address of destination network |

Entity Code/Event Code: 12/81

Severity: Trace

Message: Primary reset nbr *<IP_address>* router *<IP_address>* during Backup load

Meaning: The OSPF Primary reset the specified neighbor.

Entity Code/Event Code: 12/82

Severity: Trace

Message: Primary reset intf *<IP_address>* during Backup load

Meaning: The OSPF Primary reset the specified interface.

PCAP Events

The Packet Capture service, referred to as the PCAP entity, issues the following event messages. The entity code assigned to PCAP events is 62.

Fault Event

Entity Code/Event Code: 62/01
Severity: Fault
Message: System error, service attempting restart.
Meaning: A fatal error occurred in the Packet Capture.
Action: If this condition persists, contact Bay Networks Help Desk.

Warning Events

Entity Code/Event Code: 62/02
Severity: Warning
Message: Pcap_capture_null for line <line_no.>
Meaning: A bug in the code loaded an invalid function number.
Action: Send a copy of the log and configuration to Bay Networks Help Desk.

Entity Code/Event Code: 62/03
Severity: Warning
Message: No buffer for init stop message — line <line_no.>
Meaning: No buffer was available for the interface gate to send a stop indication to the control gate.
Action: Try stopping the capture manually.

Entity Code/Event Code: 62/04
Severity: Warning
Message: Fwd of init stop message failed — line <line_no.>
Meaning: The forwarding of the stop indication to the control gate failed.
Action: Try stopping the capture manually.

Entity Code/Event Code: 62/05

Severity: Warning

Message: No buffer for registration msg — line <line_no.>

Meaning: No buffer was available for the interface gate to send a registration message to the control gate.

Action: Disable and enable the interface, or unload and load Packet Capture from that slot.

Entity Code/Event Code: 62/06

Severity: Warning

Message: Fwd of registration msg failed — line <line_no.>

Meaning: The forwarding of the registration message from the interface gate to the control gate failed.

Action: Disable and enable the interface, or unload and load Packet Capture from that slot.

Entity Code/Event Code: 62/07

Severity: Warning

Message: No buffer for init count message — line <line_no.>

Meaning: No buffer was available for the interface gate to send a count message to the control gate.

Action: None required.

Entity Code/Event Code: 62/08

Severity: Warning

Message: Fwd of init count message failed — line <line_no.>

Meaning: The forwarding of the count message from the interface gate to the control gate has failed.

Action: None required.

Entity Code/Event Code: 62/09

Severity: Warning

Message: PktSize greater than BufSize — line <line_no.>

Meaning: The number of bytes configured to be saved is greater than the entire configured capture buffer.

Action: Increase the size of the capture buffer or decrease the number of bytes to be saved.

Entity Code/Event Code: 62/10

Severity: Warning

Message: BufSize greater than available memory — line <line_no.>

Meaning: The configured capture buffer size exceeds the amount of available contiguous memory.

Action: The amount of memory configured must be less than wfKernelEntry.wfKernelMemoryMaxSegFree.<slot_no.>

Entity Code/Event Code: 62/11

Severity: Warning

Message: wfPktCaptureRxFltr1Type for line <line_no.> invalid

Meaning: The value for this attribute is not 1, 2, or 3.

Action: Configure a valid value.

Entity Code/Event Code: 62/12

Severity: Warning

Message: wfPktCaptureRxFltr1Offset for line <line_no.> exceeds buffer

Meaning: The value for this attribute is greater than the size of a buffer on the slot.

Action: Configure a valid value.

Entity Code/Event Code: 62/13

Severity: Warning

Message: wfPktCaptureRxFltr1Ref for line <line_no.> invalid

Meaning: The value for this attribute is not 1, 2, or 3.

Action: Configure a valid value.

Entity Code/Event Code: 62/14

Severity: Warning

Message: wfPktCaptureRxFiltr1Size for line <line_no.> invalid

Meaning: The value for this attribute plus the value of wfPktCaptureRxFiltr1Offset is greater than the size of a buffer on the slot.

Action: Configure a valid value.

Entity Code/Event Code: 62/15

Severity: Warning

Message: wfPktCaptureRxFiltr1Match length for line <line_no.> invalid

Meaning: The size of this attribute does not match the value of wfPktCaptureRxFiltr1Size.

Action: Change the string or change the size.

Entity Code/Event Code: 62/16

Severity: Warning

Message: wfPktCaptureRxFiltr2Type for line <line_no.> invalid

Meaning: The value for this attribute is not 1, 2, or 3.

Action: Configure a valid value.

Entity Code/Event Code: 62/17

Severity: Warning

Message: Filters configured out of order for line <line_no.>

Meaning: Configure filters in order. If you use only one filter, use filter one, not filter two.

Action: Configure the correct filter number.

Entity Code/Event Code: 62/18

Severity: Warning

Message: Rx trigger filter for line <line_no.> must be last

Meaning: A trigger filter must be the last filter configured. If it is the only filter, it must be filter one. If it is not the only filter, then it must be the last filter configured.

Action: Configure the correct filter number.

Entity Code/Event Code: 62/19

Severity: Warning

Message: Only one rx trigger filter allowed — line <line_no.>

Meaning: Only one trigger filter can be configured at a time.

Action: Remove the extra trigger filter.

Entity Code/Event Code: 62/20

Severity: Warning

Message: wfPktCaptureRxFiltr2Offset for line <line_no.> exceeds buffer

Meaning: The value of this attribute exceeds the size of a buffer for the slot.

Action: Configure a valid value.

Entity Code/Event Code: 62/21

Severity: Warning

Message: wfPktCaptureRxFiltr2Ref for line <line_no.> invalid

Meaning: The value for this attribute is not 1, 2, or 3.

Action: Configure a valid value.

Entity Code/Event Code: 62/22

Severity: Warning

Message: wfPktCaptureRxFiltr2Size for line <line_no.> invalid

Meaning: The value of this attribute plus the value of wfPktCaptureRxFiltr2Offset is greater than the size of a buffer for the slot.

Action: Configure a valid value.

Entity Code/Event Code: 62/23

Severity: Warning

Message: wfPktCaptureRxFiltr2Match length for line <line_no.> invalid

Meaning: The length of this attribute does not match the value of wfPktCaptureRxFiltr2Size.

Action: Change the string or the size attribute.

Entity Code/Event Code: 62/24

Severity: Warning

Message: wfPktCaptureRxFltr2Group for line <line_no.> invalid

Meaning: The value of this attribute is not 1 or 2.

Action: Configure a valid value.

Entity Code/Event Code: 62/25

Severity: Warning

Message: Rx trgr fltr configured but trgr is full for line <line_no.>

Meaning: A trigger filter has been configured but the wfPktCaptureRxTrigger attribute is set to FULL (1).

Action: Remove the trigger filter or change wfPktCaptureTrigger to one of the filter match values (2 or 3).

Entity Code/Event Code: 62/26

Severity: Warning

Message: wfPktCaptureRxFltr1Type not a trgr fltr — line <line_no.>

Meaning: RxTrigger attribute was set to MATCH1 (2) but wfPktCaptureRxFltr1Type is not a trigger filter.

Action: Change the filter or trigger type.

Entity Code/Event Code: 62/27

Severity: Warning

Message: wfPktCaptureRxFltr2Type not a trgr fltr — line <line_no.>

Meaning: The wfPktCaptureRxTrigger attribute was set to MATCH2 (3) but wfPktCaptureRxFltr2Type is not a trigger filter.

Action: Change the filter or trigger type.

Entity Code/Event Code: 62/28

Severity: Warning

Message: No rx trgr for configured rx trgr fltr — line <line_no.>

Meaning: A trigger filter was configured, but no trigger was configured.

Action: Remove the trigger filter or set wfPktCaptureRxTrigger to a filter match value.

Entity Code/Event Code: 62/29

Severity: Warning

Message: wfPktCaptureRxTrigger for line <line_no.> invalid

Meaning: The value of this attribute is not 1, 2, 3, or 4.

Action: Configure a valid value.

Entity Code/Event Code: 62/30

Severity: Warning

Message: wfPktCaptureTxFltr1Type for line <line_no.> invalid

Meaning: The value for this attribute is not 1, 2, or 3.

Action: Configure a valid value.

Entity Code/Event Code: 62/31

Severity: Warning

Message: wfPktCaptureTxFltr1Offset for line <line_no.> exceeds buffer

Meaning: The value for this attribute is greater than the size of a buffer on the slot.

Action: Configure a valid value.

Entity Code/Event Code: 62/32

Severity: Warning

Message: wfPktCaptureTxFltr1Ref for line <line_no.> invalid

Meaning: The value for this attribute is not 1, 2, or 3.

Action: Configure a valid value.

Entity Code/Event Code: 62/33

Severity: Warning

Message: wfPktCaptureTxFltr1Size for line <line_no.> invalid

Meaning: The value for this attribute plus the value of wfPktCaptureTxFltr1Offset is greater than the size of a buffer on the slot.

Action: Configure a valid value.

Entity Code/Event Code: 62/34

Severity: Warning

Message: wfPktCaptureTxFltr1Match length for line <line_no.> invalid

Meaning: The size of this attribute does not match the value of wfPktCaptureTxFltr1Size.

Action: Change the string or change the size.

Entity Code/Event Code: 62/35

Severity: Warning

Message: wfPktCaptureTxFltr2Type for line <line_no.> invalid

Meaning: The value for this attribute is not 1, 2, or 3.

Action: Configure a valid value.

Entity Code/Event Code: 62/36

Severity: Warning

Message: Tx trigger filter for line <line_no.> must be last

Meaning: A trigger filter must be the last filter configured. If it is the only filter, it must be filter one. If it is not the only filter, then it must be the last filter configured.

Action: Configure the correct filter number.

Entity Code/Event Code: 62/37

Severity: Warning

Message: Only one tx trigger filter allowed — line <line_no.>

Meaning: Only one trigger filter can be configured at a time.

Action: Remove the extra trigger filter.

Entity Code/Event Code: 62/38

Severity: Warning

Message: wfPktCaptureTxFltr2Offset for line <line_no.> exceeds buffer

Meaning: The value of this attribute exceeds the size of a buffer for the slot.

Action: Configure a valid value.

Entity Code/Event Code: 62/39

Severity: Warning

Message: wfPktCaptureTxFltr2Ref for line <line_no.> invalid

Meaning: The value for this attribute is not 1, 2, or 3.

Action: Configure a valid value.

Entity Code/Event Code: 62/40

Severity: Warning

Message: wfPktCaptureTxFltr2Size for line <line_no.> invalid

Meaning: The value of this attribute plus the value of wfPktCaptureTxFltr2Offset is greater than the size of a buffer for the slot.

Action: Configure a valid value.

Entity Code/Event Code: 62/41

Severity: Warning

Message: wfPktCaptureTxFltr2Match length for line <line_no.> invalid

Meaning: The length of this attribute does not match the value of wfPktCaptureTxFltr2Size.

Action: Change the string or the size attribute.

Entity Code/Event Code: 62/42

Severity: Warning

Message: wfPktCaptureTxFltr2Group for line <line_no.> invalid

Meaning: The value of this attribute is not 1 or 2.

Action: Configure a valid value.

Entity Code/Event Code: 62/43

Severity: Warning

Message: Tx trgr fltr configured but trgr is full for line <line_no.>

Meaning: A trigger filter has been configured but the wfPktCaptureTxTrigger attribute is set to FULL (1).

Action: Remove the trigger filter or change wfPktCaptureTxTrigger to one of the filter match values (2 or 3).

Entity Code/Event Code: 62/44

Severity: Warning

Message: wfPktCaptureTxFltr1Type not a trgr fltr — line <line_no.>

Meaning: The wfPktCaptureRxTrigger attribute was set to MATCH1 (2) but wfPktCaptureTxFltr1Type is not a trigger filter.

Action: Change either the filter or the trigger type.

Entity Code/Event Code: 62/45

Severity: Warning

Message: wfPktCaptureTxFltr2Type not a trgr fltr — line <line_no.>

Meaning: The wfPktCaptureTxTrigger attribute was set to MATCH2 (3) but wfPktCaptureTxFltr2Type is not a trigger filter.

Action: Change either the filter or the trigger type.

Entity Code/Event Code: 62/46

Severity: Warning

Message: No tx trgr for configured tx trgr fltr — line <line_no.>

Meaning: A trigger filter was configured, but no trigger was configured.

Action: Either remove the trigger filter or set wfPktCaptureTxTrigger to a filter match value.

Entity Code/Event Code: 62/47

Severity: Warning

Message: wfPktCaptureTxTrigger for line <line_no.> invalid

Meaning: The value of this attribute is not 1, 2, 3 or 4.

Action: Configure a valid value.

Entity Code/Event Code: 62/48

Severity: Warning

Message: No buffer for stop message — line <line_no.>

Meaning: No buffer was available for the stop message.

Action: Try manually stopping the capture.

Entity Code/Event Code: 62/49

Severity: Warning

Message: Fwd of stop message failed — line <line_no.>

Meaning: The forwarding of the stop message failed.

Action: Try manually stopping the capture.

Entity Code/Event Code: 62/50

Severity: Warning

Message: No buffer for start message — line <line_no.>

Meaning: No buffer was available for the start message.

Action: Try manually starting the capture.

Entity Code/Event Code: 62/51

Severity: Warning

Message: Fwd of start message failed — line <line_no.>

Meaning: The forwarding of the start message failed.

Action: Try manually starting the capture.

Entity Code/Event Code: 62/52

Severity: Warning
Message: No buffer for init message — line <line_no.>
Meaning: No buffer was available for the init message.
Action: Try manually disabling the interface.

Entity Code/Event Code: 62/53

Severity: Warning
Message: Fwd of init message failed — line <line_no.>
Meaning: The forwarding of the init message has failed.
Action: Try manually disabling the interface.

Entity Code/Event Code: 62/54

Severity: Warning
Message: wfPktCaptureBufSize for line <line_no.> invalid
Meaning: The value of this attribute multiplied by 1024 exceeds available contiguous memory.
Action: Check wfKernelEntry.wfKernelMaxSegSize.<slot_no.> for available contiguous memory.

Entity Code/Event Code: 62/55

Severity: Warning
Message: wfPktCapturePktSize for line <line_no.> invalid
Meaning: The value of this attribute multiplied by 32 exceeds 1024.
Action: Configure a valid value.

Entity Code/Event Code: 62/56

Severity: Warning
Message: PktSize greater than BufSize for line <line_no.>
Meaning: The value of wfPktCapturePktSize is greater than the value of wfPktCaptureBufSize.
Action: Configure a valid value.

Entity Code/Event Code: 62/57

Severity: Warning

Message: wfPktCaptureDirection for line <line_no.> invalid

Meaning: The value of this attribute is not 1, 2, or 3.

Action: Configure a valid value.

Entity Code/Event Code: 62/97

Severity: Warning

Message: Capture buffer allocation leaves less than 200kb free

Meaning: The capture buffer memory allocation will leave less than 200 KB of contiguous memory free.

Action: None needed unless errors occur because of a lack of available memory. In this case, create a smaller capture buffer.

Info Events

Entity Code/Event Code: 62/58

Severity: Info

Message: Service initializing.

Meaning: The Packet Capture subsystem has been loaded.

Entity Code/Event Code: 62/59

Severity: Info

Message: Triggered stop has occurred — line <line_no.>

Meaning: A capture stopped because of a trigger

Entity Code/Event Code: 62/60

Severity: Info

Message: Rx capture started — line <line_no.> <function_index>

Meaning: A capture has been started.

Entity Code/Event Code: 62/61

Severity: Info

Message: Tx capture started — line <line_no.> <function_index>

Meaning: A capture has been started.

PING Events

The event messages that follow are issued by the PING entity. The event messages are organized by severity and event code. The entity code/event code pair within the SNMP trap code uniquely identifies each event. The entity code assigned to the PING events is 86.

Fault Event

Entity Code/Event Code: 86/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: PING experienced a fatal error and is restarting automatically. PING will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call your local Bay Networks Help Desk if PING fails to restart.

Info Events

Entity Code/Event Code: 86/2

Severity: Info

Message: Protocol initializing.

Meaning: PING is initializing.

Entity Code/Event Code: 86/4

Severity: Info

Message: Disabling Ping Timer for address <IP_address>.

Meaning: Someone changed the IP Ping Timer parameter from a nonzero value to zero. As a result, the timer will not go off.

PPP Events

The Point-to-Point Protocol service, referred to as the PPP entity, issues the following event messages. The entity code assigned to PPP events is 44.

Fault Event

Entity Code/Event Code: 44/1

Severity: Fault

Message: System Error, service attempting restart

Meaning: PPP experienced a fatal error and is restarting automatically. PPP will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call the Bay Networks Help Desk if PPP fails to restart.

Warning Events

Entity Code/Event Code: 44/2

Severity: Warning

Message: Circuit record does not exist for circuit <circuit_no.>.

Meaning: PPP has not been configured on the circuit <circuit_no.>.

Action: Configure PPP on the circuit.

Entity Code/Event Code: 44/3

Severity: Warning

Message: Line record does not exist for line <line_no.>.

Meaning: The router attempted to find a line record for line <line_no.>; however, the line record does not exist. The driver assigns the line number.

Entity Code/Event Code: 44/4

Severity: Warning

Message: Circuit record is disabled on circuit <circuit_no.>.

Meaning: Circuit <circuit_no.> has been disabled.

Action: Reset the Enable parameter to restore PPP service.

Entity Code/Event Code: 44/5

Severity: Warning

Message: Peer is using same Magic number, possible loopback condition on circuit <circuit_no.>.

Meaning: Both the local and remote peer may be using the same PPP magic number.

Action: Verify that PPP traffic sent out on circuit <circuit_no.> is not looping back to the local router.

Entity Code/Event Code: 44/6

Severity: Warning

Message: Configuration not converging for <protocol> on circuit <circuit_no.>.

Meaning: The PPP interface configured on circuit <circuit_no.> is not converging because the peer routers cannot agree on the NCP options for the protocol <protocol>.

Action: Disable the PPP interface, change the NCP options for <protocol>, then re-enable the interface.

Entity Code/Event Code: 44/7

Severity: Warning

Message: No buffers available on circuit <circuit_no.>.

Meaning: Circuit <circuit_no.> has run out of buffer space.

Entity Code/Event Code: 44/8

Severity: Warning

Message: Peer not responding to Echo-Requests on circuit <ircuit_no.>.

Meaning: The peer PPP router is not responding to Echo Request packets transmitted by the local router on circuit <ircuit_no.>.

Action: Verify that the LCP is in the opened state.

Entity Code/Event Code: 44/9

Severity: Warning

Message: Circuit <ircuit_no.> rejecting packet — larger than MTU size.

Meaning: The router will not transmit a packet on PPP circuit <ircuit_no.>, because it is larger than the configured Maximum Transfer Unit (MTU) size.

Action: Increase the MTU size for the PPP line and force LCP renegotiation by disabling, then reenabling, the LCP.

Entity Code/Event Code: 44/10

Severity: Warning

Message: Peer sent incorrect PAP ID <PAD_ID> on circuit <ircuit_no.>.

Meaning: The router received an Authenticate Request packet from its peer on circuit <ircuit_no.> that contained an incorrect PAP ID.

Action: Verify that the peer router is configured with the correct PAP ID.

Entity Code/Event Code: 44/11

Severity: Warning

Message: Peer sent incorrect PAP Password <PAP password> on circuit <ircuit_no.>.

Meaning: The router received an Authenticate Request packet from its peer on circuit <ircuit_no.> that contained an incorrect PAP password.

Action: Verify that the peer router is configured with the correct PAP password.

Entity Code/Event Code: 44/12

Severity: Warning

Message: Expecting authentication message from peer on circuit <ircuit_no.>.

Meaning: The router expected an authentication message from its peer on PPP circuit <ircuit_no.>, but did not receive one in the specified time period.

Action: Verify that the line is up on the peer router.

Entity Code/Event Code: 44/13

Severity: Warning

Message: Expected LQRs from peer not received on circuit <ircuit_no.>.

Meaning: The router expected Link Quality Report (LQR) packets from its peer on PPP circuit <ircuit_no.>, but never received any.

Action: Verify that the line is up on the peer router.

Entity Code/Event Code: 44/14

Severity: Warning

Message: Back to receiving LQRs from peer on circuit <ircuit_no.>.

Meaning: The router is once again receiving LQR packets from its peer on PPP circuit <ircuit_no.> (following a period when no LQR packets had been received).

Entity Code/Event Code: 44/15

Severity: Warning

Message: Inbound link quality at <link_quality_percentage> on circuit <ircuit_no.>.

Meaning: The link quality of inbound LQR packets received on PPP circuit <ircuit_no.> is at <link_quality_percentage>.

Entity Code/Event Code: 44/16

Severity: Warning

Message: Outbound link quality at <outbound_link_quality_percentage> on circuit <ircuit_no.>.

Meaning: The link quality of outbound LQR packets transmitted on PPP circuit <ircuit_no.> is at <link_quality_percentage>.

Entity Code/Event Code: 44/17

Severity: Warning

Message: Received LQR with no change in PeerInLQRs on circuit <ircuit_no.>.

Meaning: The router received an LQR packet on circuit <ircuit_no.> with the PeerInLQRs value set to the same value as the previously received LQR packet.

Entity Code/Event Code: 44/18

Severity: Warning

Message: Received LQR with inbound line errors on circuit <ircuit_no.>.

Meaning: The router received an inbound LQR packet on PPP circuit <ircuit_no.> that contained line errors.

Action: Check the driver statistics on the local router to determine what the errors are.

Entity Code/Event Code: 44/19

Severity: Warning

Message: Received LQR with outbound line errors on circuit <ircuit_no.>.

Meaning: The router received an outbound LQR packet on PPP circuit <ircuit_no.> that contained line errors.

Action: Check the driver statistics on the peer router to determine what the errors are.

Entity Code/Event Code: 44/20

Severity: Warning

Message: Received LQR with inbound congestion indication on circuit <ircuit_no.>.

Meaning: The router received an inbound LQR packet on PPP circuit <ircuit_no.> that indicated line congestion.

Entity Code/Event Code: 44/21

Severity: Warning

Message: Received LQR with outbound congestion indication on circuit <ircuit_no.>.

Meaning: The router received an outbound LQR packet on PPP circuit <ircuit_no.> that indicated line congestion.

Entity Code/Event Code: 44/22

Severity: Warning

Message: Not expecting PAP Authenticate-Request on circuit <ircuit_no.>.

Meaning: The router received an Authenticate-Request message on circuit <ircuit_no.> without having negotiated PAP with the peer.

Action: Verify that the peer router is operating properly.

Entity Code/Event Code: 44/23

Severity: Warning

Message: Not expecting PAP Authenticate-ACK on circuit <ircuit_no.>.

Meaning: The router received a PAP Authenticate ACK packet on PPP circuit <ircuit_no.> without having negotiated PAP with the peer.

Action: Verify that the peer router is operating properly.

Entity Code/Event Code: 44/24

Severity: Warning

Message: Not expecting PAP Authenticate-NAK on circuit <ircuit_no.>.

Meaning: The router received a PAP Authenticate NAK packet on PPP circuit <ircuit_no.> without having negotiated PAP with the peer.

Action: Verify that the peer router is operating properly.

Entity Code/Event Code: 44/25

Severity: Warning

Message: Received PAP message with incorrect identifier on circuit <ircuit_no.>.

Meaning: The router received a PAP message on circuit <ircuit_no.> that contained a PAP message identifier that didn't match the corresponding PAP message sent previously.

Entity Code/Event Code: 44/82

Severity: Warning

Message: Falling back to PAP on circuit <ircuit_no.>.

Meaning: The attempt to negotiate CHAP failed; The router is negotiating PAP instead.

Entity Code/Event Code: 44/91

Severity: Warning

Message: Not expecting CHAP message on circuit <ircuit_no.>.

Meaning: The router received a CHAP message on PPP circuit <ircuit_no.> without having negotiated CHAP with the peer router.

Action: Verify that the peer router is operating properly.

Entity Code/Event Code: 44/92

Severity: Warning

Message: No CHAP secret configured on circuit <ircuit_no.>.

Meaning: CHAP is enabled, but the secret has not been configured on PPP circuit <ircuit_no.>.

Action: Enter the secret. The secret must be the same on both ends of a link.

Entity Code/Event Code: 44/93

Severity: Warning

Message: Expecting CHAP Response message from peer on circuit <ircuit_no.>.

Meaning: The router has sent a CHAP Challenge message on PPP circuit <ircuit_no.>, but has not received a response within a specified time period.

Action: Verify that the peer router is operating properly.

Entity Code/Event Code: 44/94

Severity: Warning

Message: Expecting CHAP Challenge message from peer on circuit <ircuit_no.>.

Meaning: The router has not received a CHAP Challenge message from the peer on PPP circuit <ircuit_no.> within a specified time period, although the peer has indicated that it will use CHAP.

Action: Verify that the peer router is operating properly.

Entity Code/Event Code: 44/95

Severity: Warning

Message: Expecting CHAP Success/Fail message from peer on circuit <ircuit_no.>.

Meaning: The router has received a Challenge message from the peer on PPP circuit <ircuit_no.>, and has sent a response. The router has not received a Success or Fail message from the peer within a specified time period.

Action: Verify that the peer router is operating properly.

Entity Code/Event Code: 44/96

Severity: Warning

Message: Received CHAP message with incorrect identifier on circuit <ircuit_no.>.

Meaning: The identifier should increment by one each time the peer sends this message to the router. If the identifier increments in any other way, the router receives this event message.

Action: Reset the line to resynchronize the router and the peer.

Entity Code/Event Code: 44/97

Severity: Warning

Message: Received incorrect CHAP response from peer on circuit <ircuit_no.>.

Meaning: The router received a secret from the peer on PPP circuit <ircuit_no.> that does not match its CHAP secret.

Action: Verify that the secrets are the same on both ends of the link.

Entity Code/Event Code: 44/98

Severity: Warning

Message: Failed to locate %s in WHOAMI table.

Meaning: The router's CHAP Name is not in the WHOAMI table. This message applies to switched services only.

Action: Create an entry in the WHOAMI table for this CHAP Name.

Info Events

Entity Code/Event Code: 44/26

Severity: Info

Message: Interface up on circuit <ircuit_no.>.

Meaning: PPP is enabled on circuit <ircuit_no.>.

Entity Code/Event Code: 44/27

Severity: Info

Message: Interface down on circuit <ircuit_no.>.

Meaning: PPP is disabled on circuit <ircuit_no.>.

Entity Code/Event Code: 44/28

Severity: Info

Message: <protocol> up on circuit <ircuit_no.>.

Meaning: The NCP for <protocol> has reached the opened state on PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/29

Severity: Info

Message: <protocol> down on circuit <ircuit_no.>.

Meaning: The NCP for <protocol> has been shut down on PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/30

Severity: Info

Message: Starting Network Control Protocols on circuit <ircuit_no.>.

Meaning: NCP negotiations have begun on PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/31

Severity: Info

Message: Stopping Network Control Protocols on circuit <ircuit_no.>.

Meaning: NCP negotiations have stopped on PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/32

Severity: Info

Message: Link Quality Reporting off on circuit <ircuit_no.>.

Meaning: LQR has been disabled on PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/33

Severity: Info

Message: Link Quality Reporting on circuit <ircuit_no.>.

Meaning: Link Quality Reporting has been enabled on PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/34

Severity: Info

Message: Duplicate <protocol> ACK being dropped on circuit <ircuit_no.>.

Meaning: The router received a duplicate <protocol> ACK on PPP circuit <ircuit_no.>. As a result, the <protocol> ACK was dropped.

Entity Code/Event Code: 44/35

Severity: Info

Message: <protocol> ACK already received, dropping NAK on circuit <ircuit_no.>.

Meaning: The router received a <protocol> NAK on PPP circuit <ircuit_no.> after already receiving a <protocol> ACK. As a result, the <protocol> NAK was dropped.

Entity Code/Event Code: 44/36

Severity: Info

Message: Echo packets disabled on circuit <ircuit_no.>.

Meaning: The router is not generating Echo packets on PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/37

Severity: Info

Message: Echo packets enabled on circuit <ircuit_no.>.

Meaning: The router is generating Echo packets on PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/38

Severity: Info

Message: Link establishment phase complete on circuit <ircuit_no.>.

Meaning: The router has completed the link establishment phase on PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/39

Severity: Info

Message: Authentication phase complete on circuit <ircuit_no.>.

Meaning: The router has completed the authentication phase on PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/40

Severity: Info

Message: PAP enabled on circuit <ircuit_no.>.

Meaning: The Password Authentication Protocol is enabled on PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/41

Severity: Info

Message: PAP disabled on circuit <ircuit_no.>.

Meaning: The Password Authentication Protocol is disabled on PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/42

Severity: Info

Message: Inbound/Outbound link quality back to desired level on circuit <ircuit_no.>.

Meaning: The link quality of inbound and outbound packets has improved to the desired level (percentage) for PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/76

Severity: Info

Message: Service initializing

Meaning: PPP is initializing.

Entity Code/Event Code: 44/77

Severity: Info

Message: Service terminating

Meaning: PPP is terminating.

Entity Code/Event Code: 44/99

Severity: Info

Message: CHAP enabled on circuit <ircuit_no.>.

Meaning: CHAP is enabled on PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/100

Severity: Info

Message: CHAP disabled on circuit <ircuit_no.>.

Meaning: CHAP is disabled on PPP circuit <ircuit_no.>.

Trace Events

Entity Code/Event Code: 44/44

Severity: Trace

Message: Sending <protocol> Configure Request on circuit <ircuit_no.>.

Meaning: The router sent a <protocol> Configure Request packet to its peer on PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/45

Severity: Trace

Message: Sending <protocol> Configure-ACK on circuit <ircuit_no.>.

Meaning: The router sent a <protocol> Configure ACK packet to its peer on PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/46

Severity: Trace

Message: Sending <protocol> Configure-NAK on circuit <circuit_no.>.

Meaning: The router sent a <protocol> Configure NAK packet to its peer on PPP circuit <circuit_no.>.

Entity Code/Event Code: 44/47

Severity: Trace

Message: Sending <protocol> Configure-Reject on circuit <circuit_no.>.

Meaning: The router sent a <protocol> Configure Reject packet to its peer on PPP circuit <circuit_no.>.

Entity Code/Event Code: 44/48

Severity: Trace

Message: Sending <protocol> Terminate-Request on circuit <circuit_no.>.

Meaning: The router sent a <protocol> Terminate Request packet to its peer on PPP circuit <circuit_no.>.

Entity Code/Event Code: 44/49

Severity: Trace

Message: Sending <protocol> Terminate-ACK on circuit <circuit_no.>.

Meaning: The router sent a <protocol> Terminate ACK packet to its peer on PPP circuit <circuit_no.>.

Entity Code/Event Code: 44/50

Severity: Trace

Message: Sending <protocol> Code-Reject for code <code> on circuit <circuit_no.>.

Meaning: The router sent a <protocol> Code Reject packet containing code <code> to its peer on PPP circuit <circuit_no.>.

Entity Code/Event Code: 44/51

Severity: Trace

Message: Sending Protocol-Reject for protocol *<protocol_code>* on circuit *<circuit_no.>*.Meaning: The router sent a Protocol Reject message to *<protocol_code>* on circuit *<circuit_no.>*.**Entity Code/Event Code: 44/52**

Severity: Trace

Message: Sending Open Event to *<protocol>* on circuit *<circuit_no.>*.Meaning: The router sent an Open Event message to *<protocol>* on circuit *<circuit_no.>*.**Entity Code/Event Code: 44/53**

Severity: Trace

Message: Sending Close Event to *<protocol>* on circuit *<circuit_no.>*.Meaning: The router sent a Close Event message to *<protocol>* on circuit *<circuit_no.>*.**Entity Code/Event Code: 44/54**

Severity: Trace

Message: Received *<protocol>* Discard-request on circuit *<circuit_no.>*.Meaning: The router received a *<protocol>* Discard Request packet on PPP circuit *<circuit_no.>*.**Entity Code/Event Code: 44/55**

Severity: Trace

Message: Received *<protocol>* Configure-Request on circuit *<circuit_no.>*.Meaning: The router received a *<protocol>* Configure Request packet on PPP circuit *<circuit_no.>*.**Entity Code/Event Code: 44/56**

Severity: Trace

Message: Received *<protocol>* Configure-ACK on circuit *<circuit_no.>*.Meaning: The router received a *<protocol>* Configure ACK packet on PPP circuit *<circuit_no.>*.

Entity Code/Event Code: 44/57

Severity: Trace

Message: Received <protocol> Configure-NAK on circuit <circuit_no.>.

Meaning: The router received a <protocol> Configure NAK packet on PPP circuit <circuit_no.>.

Entity Code/Event Code: 44/58

Severity: Trace

Message: Received <protocol> Configure-Reject on circuit <circuit_no.>.

Meaning: The router received a <protocol> Configure Reject packet on PPP circuit <circuit_no.>.

Entity Code/Event Code: 44/59

Severity: Trace

Message: Received <protocol> Terminate-Request on circuit <circuit_no.>.

Meaning: The router received a <protocol> Terminate Request packet on PPP circuit <circuit_no.>.

Entity Code/Event Code: 44/60

Severity: Trace

Message: Received <protocol> Terminate-ACK on circuit <circuit_no.>.

Meaning: The router received a <protocol> Terminate ACK packet on PPP circuit <circuit_no.>.

Entity Code/Event Code: 44/61

Severity: Trace

Message: Received <protocol> Code-Reject for code <code> on PPP circuit <circuit_no.>.

Meaning: The router received a <protocol> Code Reject message for code <code> on circuit <circuit_no.>.

Entity Code/Event Code: 44/62

Severity: Trace

Message: Received Protocol-Reject for protocol <protocol> on PPP circuit <circuit_no.>.

Meaning: The router received a Protocol Reject message for protocol <protocol> on circuit <circuit_no.>.

Entity Code/Event Code: 44/63

Severity: Trace

Message: <protocol> Rejecting <protocol> option on circuit <circuit_no.>.

Meaning: The router received a <protocol> packet on PPP circuit <circuit_no.> that contains <protocol> options that the router will not negotiate. As a result, the router responded with a Configure Reject packet.

Entity Code/Event Code: 44/64

Severity: Trace

Message: <protocol> Naking <protocol> option value <option_value> with value <option_value> on circuit on circuit <circuit_no.>.

Meaning: The router received a <protocol> packet on PPP circuit <circuit_no.> that contained a <protocol> option value that is not acceptable. As a result, the router responded with a Configure NAK packet that contained its suggested value for the option.

Entity Code/Event Code: 44/65

Severity: Trace

Message: Peer <protocol> Rejected <protocol> option on circuit <circuit_no.>.

Meaning: The peer router received a <protocol> packet on PPP circuit <circuit_no.> that contains a <protocol> option that the peer router will not negotiate. As a result, the peer router sent this router a Configure Reject packet.

Entity Code/Event Code: 44/66

Severity: Trace

Message: Peer <protocol> Naked <protocol> option suggested <option_value> on circuit <circuit_no.>.

Meaning: The peer router received a <protocol> packet on PPP circuit <circuit_no.> that contained a <protocol> option value that is not acceptable. As a result, the peer router sent this router a Configure NAK packet that contained the value it suggests for the option.

Entity Code/Event Code: 44/67

Severity: Trace

Message: Peer *<protocol>* Naked IPX-Node-Number option suggested *<option_value>* on circuit *<circuit_no.>*.

Meaning: The peer router received a *<protocol>* packet on PPP circuit *<circuit_no.>* that contained a value for the IPX node number option that the peer found unacceptable. As a result, the peer router sent this router a Configure NAK packet that contained the value it suggests for IPX node number.

Entity Code/Event Code: 44/68

Severity: Trace

Message: Received Authenticate Request on circuit *<circuit_no.>*.

Meaning: The router received an Authenticate Request packet on PPP circuit *<circuit_no.>*.

Entity Code/Event Code: 44/69

Severity: Trace

Message: Received Authenticate ACK on circuit *<circuit_no.>*.

Meaning: The router received an Authenticate ACK packet on PPP circuit *<circuit_no.>*.

Entity Code/Event Code: 44/70

Severity: Trace

Message: Received Authenticate NAK on circuit *<circuit_no.>*.

Meaning: The router received an Authenticate NAK packet on PPP circuit *<circuit_no.>*.

Entity Code/Event Code: 44/71

Severity: Trace

Message: Sending Authenticate-Request on circuit *<circuit_no.>*.

Meaning: The router transmitted an Authenticate Request packet on PPP circuit *<circuit_no.>*.

Entity Code/Event Code: 44/72

Severity: Trace

Message: Sending Authenticate-ACK on circuit <ircuit_no.>.

Meaning: The router transmitted an Authenticate ACK packet on PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/73

Severity: Trace

Message: Sending Authenticate-NAK on circuit <ircuit_no.>.

Meaning: The router transmitted an Authenticate NAK packet on PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/78

Severity: Trace

Message: Peer master gate dropped <no.> packets.

Meaning: The router dropped <no.> packets before PPP initialized.

Entity Code/Event Code: 44/83

Severity: Trace

Message: Received CHAP Challenge message on circuit <ircuit_no.>.

Meaning: The router has received a Challenge Handshake Authentication Protocol (CHAP) Challenge message on PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/84

Severity: Trace

Message: Sending CHAP Challenge message on circuit <ircuit_no.>.

Meaning: The router is sending a CHAP Challenge message on PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/85

Severity: Trace

Message: Received CHAP Response message on circuit <ircuit_no.>

Meaning: The router has received a CHAP Response message on PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/86

Severity: Trace

Message: Sending CHAP Response message on circuit <ircuit_no.>

Meaning: The router is sending a CHAP Response message on PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/87

Severity: Trace

Message: Received CHAP Success message on circuit <ircuit_no.>.

Meaning: The router has received a CHAP Success message on PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/88

Severity: Trace

Message: Sending CHAP Success message on circuit <ircuit_no.>.

Meaning: The router is sending a CHAP Success message on PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/89

Severity: Trace

Message: Received CHAP Failure message on circuit <ircuit_no.>.

Meaning: The router has received a CHAP Failure message on PPP circuit <ircuit_no.>.

Entity Code/Event Code: 44/90

Severity: Trace

Message: Sending CHAP Failure message on circuit <ircuit_no.>.

Meaning: The router is sending a CHAP Failure message on PPP circuit <ircuit_no.>.

PTY Events

The Pseudo TTY driver, referred to as the PTY entity, issues the following event message. The entity code assigned to PTY events is 41.

Info Event

Entity Code/Event Code: 41/4

Severity: Info

Message: Input FIFO Overflow error — data lost. Total: <total_no.>

Meaning: The PTY/Telnet entity received more data than it had room to accept. <total_no.> indicates the number of times this error has occurred.

Reverse ARP Protocol Events

The Reverse ARP Protocol, referred to as the RARP entity, issues the following event messages. The entity code assigned to RARP events is 45.

Fault Events

Entity Code/Event Code: 45/1

Severity: Fault

Message: System error, Reverse ARP service attempting restart.

Meaning: Reverse ARP experienced a fatal error and is restarting automatically.

Action: Verify that the configuration is correct.

Entity Code/Event Code: 45/4

Severity: Fault

Message: Bad value for wfRarpDelete: Reverse ARP Master Gate deleted on slot <slot_no.>

Meaning: Reverse ARP has been deleted from the specified slot.

Action: Verify that the configuration is correct.

Information Events

Entity Code/Event Code: 45/2

Severity: Info

Message: Reverse ARP Master Gate is up on slot <slot_no>

Meaning: Reverse ARP is providing service on the specified slot.

Entity Code/Event Code: 45/3

Severity: Info

Message: Reverse ARP Master Gate is deleted on slot <slot_no>

Meaning: Reverse ARP has been deleted from the specified slot.

Entity Code/Event Code: 45/6

Severity: Info

Message: Reverse ARP Service is up on circuit <circuit_no>

Meaning: Reverse ARP is providing service on the specified slot.

Entity Code/Event Code: 45/7

Severity: Info

Message: Reverse ARP Service is down on circuit <circuit_no>

Meaning: Reverse ARP is no longer providing service on the specified circuit.

SDLC Events

The event messages that follow are issued by the SDLC entity. The event messages are organized by severity and event code. The entity code/event code pair within the SNMP trap code uniquely identifies each event. The entity code assigned to the SDLC events is 74.

Fault Event

Entity Code/Event Code: 74/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: SDLC experienced a fatal error and is restarting automatically. SDLC will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call your local Bay Networks Help Desk if SDLC fails to restart.

Warning Events

Entity Code/Event Code: 74/7

Severity: Warning

Message: sdlc malloc failed: not enough memory to allocate space.

Meaning: SDLC is unable to obtain buffers at a critical point (for example, while trying to create a port); as a result, SDLC terminates.

Action: Try to reconfigure the number of buffers that SDLC or other protocols use on the slot, or get more memory.

Info Events

Entity Code/Event Code: 74/2

Severity: Info

Message: SDLC Service initializing.

Meaning: SDLC is initializing.

Entity Code/Event Code: 74/3

Severity: Info

Message: SDLC Service terminating.

Meaning: SDLC is terminating.

SMDS Events

Entity Code/Event Code: 74/4

Severity: Info

Message: SDLC Service up on circuit <no.>.

Meaning: An SDLC interface has come up on a circuit.

Entity Code/Event Code: 74/5

Severity: Info

Message: SDLC Service down on circuit <no.>.

Meaning: An SDLC interface has gone down on a circuit.

SMDS Events

The Switched Multimegabit Data Service, referred to as the SMDS entity, issues the following event messages. The entity code assigned to SMDS events is 24.

Fault Event

Entity Code/Event Code: 24/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: SMDS experienced a fatal error and is restarting automatically. SMDS will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if SMDS fails to restart.

Warning Events

Entity Code/Event Code: 24/2

Severity: Warning

Message: Circuit record does not exist for circuit <ircuit_no.>.

Meaning: SMDS has not been configured on circuit <ircuit_no.>.

Action: Configure SMDS on the circuit.

Entity Code/Event Code: 24/3

Severity: Warning

Message: Circuit record is disabled on circuit <ircuit_no.>.

Meaning: SMDS has been disabled on circuit <ircuit_no.>.

Action: Reset the Enable parameter to restore SMDS service.

Entity Code/Event Code: 24/4

Severity: Warning

Message: Circuit <ircuit_no.> SMDS address is of incorrect length.

Meaning: An SMDS address entered on circuit <ircuit_no.> using the Technician Interface is of improper length.

Action: Correct the address.

Note: This message should not appear if you have configured SMDS using Site Manager, because Site Manager checks SMDS addresses for format and length.

Entity Code/Event Code: 24/5

Severity: Warning

Message: Circuit <ircuit_no.> SMDS address is of incorrect type.

Meaning: An SMDS address entered on circuit <ircuit_no.> using the Technician Interface is of the incorrect type. That is, an individual address has been entered as a group address, or a group address has been entered as an individual address.

Action: Correct the address.

Note: This message should not appear if you have configured SMDS using Site Manager, because Site Manager provides formatting for group and individual addresses.

Entity Code/Event Code: 24/6

Severity: Warning

Message: Circuit <*circuit_no.*> SMDS NANP address is incorrect.

Meaning: An improper NANP address has been entered on circuit <*circuit_no.*>.

Action: Correct the address.

Entity Code/Event Code: 24/7

Severity: Warning

Message: Circuit <*circuit_no.*> rejecting bridge media type of <*media_type.*>.

Meaning: The router received a bridged packet on circuit <*circuit_no.*> over an unsupported media (not Ethernet or FDDI).

Action: Reconfiguration may be required. SMDS can bridge only those frames that originate on Ethernet or FDDI media.

Entity Code/Event Code: 24/8

Severity: Warning

Message: Circuit <*circuit_no.*> rejecting packet — larger than MTU size.

Meaning: Circuit <*circuit_no.*> received a packet larger than the MTU supported by the interface.

Action: Adjust the MTU parameter.

Entity Code/Event Code: 24/9

Severity: Warning

Message: No response to heartbeat poll on circuit <*circuit_no.*>.

Meaning: The router issued an unacceptable number of unacknowledged heartbeat poll messages on circuit <*circuit_no.*>, and has taken the router/CSU connection down.

Action: Verify that the CSU/DSU supports heartbeat polling; verify the integrity of the router/CSU connection.

Entity Code/Event Code: 24/10

Severity: Warning

Message: Heartbeat Poll interval not > 5 seconds on circuit <ircuit_no.>.

Meaning: A Heartbeat Poll Interval entered using the Technician Interface is unacceptably short on circuit <ircuit_no.>.

Action: Configure the interval to be greater than 5 seconds.

Note: This message should not appear if you have configured SMDS using Site Manager, because Site Manager provides boundary checking for this interval.**Entity Code/Event Code: 24/11**

Severity: Warning

Message: Can't decode DXI Addr/Ctrl 0x<field_contents> received on circuit <ircuit_no.>.

Meaning: The router received from the CSU on circuit <ircuit_no.> a DXI frame which contained an unparsable Address or Control field. The contents of the fields are displayed in hexadecimal format.

Action: Monitor the CSU for integrity.

Entity Code/Event Code: 24/12

Severity: Warning

Message: LMI response from DSU timed out on circuit <ircuit_no.>.

Meaning: The router has not received a response to an LMI PDU issued on the circuit <ircuit_no.> within the timeout period.

Action: Verify the integrity of the DSU.

Entity Code/Event Code: 24/13

Severity: Warning

Message: DSU alarm condition <value> present on circuit <ircuit_no.>.

Meaning: The router received an alarm indication from the DSU on the circuit <ircuit_no.>.

Alarm conditions are as follows:

2	Far and alarm
4	Alarm indication signal
8	Loss of frame
16	Loss of signal
32	Loopback state

Action: No action may be required, as the state may be transient. If condition persists, check DSU for integrity.

Info Events

Entity Code/Event Code: 24/14

Severity: Info

Message: Interface up on circuit <ircuit_no.>.

Meaning: SMDS service is present on circuit <ircuit_no.>.

Entity Code/Event Code: 24/15

Severity: Info

Message: Interface down on circuit <ircuit_no.>.

Meaning: SMDS service has been disabled on circuit<ircuit_no.>.

Entity Code/Event Code: 24/16

Severity: Info

Message: Querying DSU for trunk status on circuit <ircuit_no.>.

Meaning: The router queried the CSU/DSU for trunk status information on circuit <ircuit_no.>.

Entity Code/Event Code: 24/17

Severity: Info

Message: No alarm condition present on circuit <ircuit_no.>.

Meaning: An LMI GetResponse issued by the CSU/DSU indicates a No Alarm condition for circuit <ircuit_no.>.

Entity Code/Event Code: 24/18

Severity: Info

Message: Cold Start trap received from DSU on circuit <ircuit_no.>.

Meaning: The router received a Cold-Start Trap from the CSU/DSU device on circuit <ircuit_no.>. A cold start signifies that the CSU/DSU has restarted and may have altered its configuration.

Entity Code/Event Code: 24/19

Severity: Info

Message: Warm Start trap received from DSU on circuit<ircuit_no.>.

Meaning: The router received a warmStart Trap from the CSU/DSU device on circuit <ircuit_no.>. A warm start signifies that the CSU/DSU has restarted and has not altered its configuration.

Entity Code/Event Code: 24/20

Severity: Info

Message: Link Down trap received from DSU on circuit <ircuit_no.>.

Meaning: The router received a linkDownTrap from the CSU/DSU device on circuit <ircuit_no.>. A link down signifies that the CSU/DSU SNI (Subscriber Network Interface) has been removed from service.

Entity Code/Event Code: 24/21

Severity: Info

Message: Link Up trap received from DSU on circuit <ircuit_no.>.

Meaning: The router received a linkUp Trap from the CSU/DSU device on circuit <ircuit_no.>. A link up signifies that the CSU/DSU SNI has been put into or restored to service.

Entity Code/Event Code: 24/22

Severity: Info

Message: Enterprise Specific trap received from DSU on circuit <ircuit_no.>.

Meaning: SMDS received an enterprise specific trap from the CSU/DSU device on circuit <ircuit_no.>.

Trace Events

Entity Code/Event Code: 24/23

Severity: Trace

Message: Proxy agent couldn't get a buffer on circuit <ircuit_no.>.

Meaning: The DXI proxy agent could not obtain a buffer on circuit <ircuit_no.>.

Action: Condition is probably transient, and most likely no action is necessary.

Entity Code/Event Code: 24/24

Severity: Trace

Message: Proxy agent received bad response of type <value> on circuit <ircuit_no.>.

Meaning: The DXI proxy agent received an unexpected response (something other than a get_response) to a get_request transmitted on circuit <ircuit_no.>.

The type of received response is encoded in <value> as follows:

0	get_request PDU
1	get_next_request PDU
3	set_request
4	trap

Action: Verify DSU integrity.

Entity Code/Event Code: 24/25

Severity: Trace

Message: Proxy agent received error <value> in response to status query on circuit <circuit_no.>.

Meaning: The DXI proxy agent received an unexpected response (something other than a get_response) to a status request transmitted on circuit <circuit_no.>.

The type of received response is encoded in <value> as follows:

0	get_request PDU
1	get_next_request PDU
3	set_request
4	trap

Action: Verify DSU integrity.

SNMP Events

The Simple Network Management Protocol service, referred to as the SNMP entity, issues the following event messages. The entity code assigned to SNMP events is 3.

Fault Event

Entity Code/Event Code: 3/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: SNMP experienced a fatal error and is restarting automatically. SNMP will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Wellfleet Customer Support if SNMP fails to restart.

Warning Events

Entity Code/Event Code: 3/5

Severity: Warning

Message: Duplicate community *<community>*, with index *<value>* deleted.

Meaning: You created an SNMP community, *<community_name>*, whose name matches that of an existing community. SNMP deletes the newly created community.

Action: None required, because SNMP deletes the duplicate community. To add multiple management communities, assign a unique name to each community.

Entity Code/Event Code: 3/6

Severity: Warning

Message: No corresponding community index *<value>* for manager *<IP_address>*, deleting instance.

Meaning: You created a manager *<IP_address>* that cannot be associated with an existing management community. SNMP deletes the newly created manager.

Action: None required, because SNMP deletes the manager record. To add multiple managers, associate them with existing communities, or add new community records.

Entity Code/Event Code: 3/41

Severity: Warning

Message: Agent detected death of Trap Manager.

Meaning: The entity that sends SNMP traps failed.

Action: None required, because the system recovers automatically.

Entity Code/Event Code: 3/55

Severity: Warning

Message: Agent received trap switches for unknown entity *<entity>*, deleting instance.

Meaning: You tried to configure traps for an entity using an invalid entity number.

Info Events

Entity Code/Event Code: 3/7

Severity: Info

Message: Protocol initializing.

Meaning: The SNMP Agent is initializing.

Entity Code/Event Code: 3/50

Severity: Info

Message: Agent reset seed counters for manager <manager> in community <community>.

Meaning: You reset the counter for the proprietary SNMP security system.

Entity Code/Event Code: 3/52

Severity: Info

Message: Agent changed authentication mode to <mode>.

Meaning: You used the Technician Interface to change the authentication mode of the SNMP agent on the router. A mode of 1 indicates that the router is now set to operate in trivial security mode and a mode of 3 indicates that the router is now set to operate in proprietary security mode.

Trace Event

Entity Code/Event Code: 3/8

Severity: Trace

Message: Agent received unauthorized request from <IP_address> in community <community>.

Meaning: The SNMP agent received an SNMP packet from an unknown community and manager.

Action: None required, because SNMP drops the packet without a response. Message may indicate a configuration error or an attempt to breach system security.

SPAN Events

The Spanning Tree service, referred to as the SPAN entity, issues the following event messages. The entity code assigned to SPAN events is 16.

Fault Event

Entity Code/Event Code: 16/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The Spanning Tree experienced a fatal error and is restarting automatically. The Spanning Tree will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if Spanning Tree fails to restart.

Warning Events

Entity Code/Event Code: 16/6

Severity: Warning

Message: Invalid forward delay configured.

Meaning: The configured Forward Delay timer value is not within the bounds specified by IEEE 802.1D, Section 4.10.2.

Allowable values for the Forward Delay timer are expressed by the formula:
 $2 * (\text{fwd_delay} - 1.0 \text{ second}) \geq \text{max_age}$

Action: Modify the bridge configuration record to enter a valid Forward Delay timer value.

Entity Code/Event Code: 16/7

Severity: Warning

Message: Invalid max age configured.

Meaning: The configured Max Age value is not within the bounds specified by IEEE 802.1D, Section 4.10.2. Allowable values for Max Age are expressed by the formula: $\text{max_age} \geq 2 * (\text{hello_timer} + 1.0 \text{ second})$

Action: Modify the bridge configuration record to enter a valid Max Age value.

Entity Code/Event Code: 16/8

Severity: Warning

Message: Unknown packet type *<type_value>*.Meaning: Spanning Tree received a Bridge Protocol Data Unit (BPDU) packet which contained an unknown value, *<type_value>*, in the BPDU Type field.

Action: Monitor the network to identify and repair the source of the faulty BPDU.

Entity Code/Event Code: 16/9

Severity: Warning

Message: Invalid Spanning Tree base record instance ignored.

Meaning: You attempted to add a base record with an instance other than "0" to the MIB. Spanning Tree ignores the request.

Action: To alter the Spanning Tree base record, specify the instance "0".

Info Events

Entity Code/Event Code: 16/2

Severity: Info

Message: Protocol initializing.

Meaning: Spanning Tree is initializing.

Entity Code/Event Code: 16/3

Severity: Info

Message: Protocol terminating.

Meaning: Spanning Tree is terminating.

Entity Code/Event Code: 16/4

Severity: Info

Message: Interface <port_priority>.<interface_no.> up on circuit <circuit_no.>.

Meaning: Spanning Tree is running on the circuit identified by <circuit_no.>.

Entity Code/Event Code: 16/5

Severity: Info

Message: Interface <port_priority>.<interface_no.> down on circuit <circuit_no.>.

Meaning: Spanning Tree is down on the circuit identified by <circuit_no.>.

Trace Event

Entity Code/Event Code: 16/10

Severity: Trace

Message: Bridge <bridge ID> chosen as new root of Spanning Tree

Meaning: The bridge specified by <bridge ID> is now the root bridge for Spanning Tree.

SR Events

The Source Routing bridge service, referred to as the SR entity, issues the following event messages. The entity code assigned to SR events is 29.

Fault Event

Entity Code/Event Code: 29/1

Severity: Fault

Message: System error, service attempting restart.

Message: The Source Routing Bridge experienced a fatal error and is restarting automatically. The Source Routing bridge will attempt to restart up to five times.

Meaning: Verify that the configuration is correct. Call Bay Networks Help Desk if the Source Routing bridge fails to restart.

Warning Events

Entity Code/Event Code: 29/15

Severity: Warning

Message: Ring number not configured for circuit < *circuit_no* >.

Meaning: No ring number is configured for the circuit < *circuit_no* >.

Action: Assign a valid ring number to the circuit using the Ring ID parameter.

Entity Code/Event Code: 29/16

Severity: Warning

Message: IP Delivery registration failed.

Meaning: The Source Routing bridge attempted to communicate with the IP router and failed.

Action: Verify the IP router's configuration and state.

Entity Code/Event Code: 29/17

Severity: Warning

Message: IP Ring not configured.

Meaning: IP encapsulation has started but no ring number has been assigned to the IP network.

Action: Assign a valid ring number, using the Source Routing bridge's IP Ring parameter.

Entity Code/Event Code: 29/18

Severity: Warning

Message: SP Invalid forward delay configured.

Meaning: The forward delay value was configured too high relative to the hello time.

Action: Enter a lower forward delay value.

Entity Code/Event Code: 29/19

Severity: Warning

Message: SP Invalid max age configured

Meaning: The max age value was configured too high relative to the hello time.

Action: Enter a lower maximum age value.

Entity Code/Event Code: 29/20

Severity: Warning

Message: SP Unknown packet type <packet_type>

Meaning: A packet was received that was neither a configured BPDU nor a topology change BPDU.

Action: Determine who generated the packet.

Info Events

Entity Code/Event Code: 29/2

Severity: Info

Message: Service initializing

Meaning: Source routing is initializing.

Entity Code/Event Code: 29/3

Severity: Info

Message: Service terminating

Meaning: Source routing is terminating.

Entity Code/Event Code: 29/4

Severity: Info

Message: Interface up on circuit <*circuit_no.*>

Meaning: The circuit identified by <*circuit_no.*> has become enabled, thus providing Source Routing service to the interface.

Entity Code/Event Code: 29/5

Severity: Info

Message: Interface down on circuit <*circuit_no.*>

Meaning: The circuit identified by <*circuit_no.*> has become disabled, thus disabling Source Routing service to the interface.

Entity Code/Event Code: 29/6

Severity: Info

Message: IP encapsulation active

Meaning: IP encapsulation service has become active.

Entity Code/Event Code: 29/7

Severity: Info

Message: IP encapsulation not active

Meaning: IP encapsulation service has gone from active to not active.

Entity Code/Event Code: 29/8

Severity: Info

Message: Source Routing Traffic Filter — Rule <filter_rule_no.>, Circuit <circuit_no.>
(Drop packet).

Meaning: A Source Route packet has been dropped in accordance with the specified filter rule.

Entity Code/Event Code: 29/9

Severity: Info

Message: Source Routing Traffic Filter — Rule <filter_rule_no.>, Circuit <circuit_no.>
(Log only).

Meaning: A Source Route packet has been logged in accordance with the specified filter rule.

Entity Code/Event Code: 29/10

Severity: Info

Message: Source Routing Traffic Filter — Rule <filter_rule_no.>, Circuit <circuit_no.>
(Direct IP Explorers).

Meaning: A Source Route packet has been logged in accordance with the specified filter rule.

Entity Code/Event Code: 29/11

Severity: Info

Message: SP Protocol Initializing.

Meaning: Source route Spanning Tree has verified its Base Record information and is beginning to initialize its interfaces.

Entity Code/Event Code: 29/12

Severity: Info

Message: SP Protocol Terminating.

Meaning: Source route Spanning Tree has either temporarily or permanently been removed from operation.

Entity Code/Event Code: 29/13

Severity: Info

Message: SP Interface <port_no.> up on circuit <circuit_no.>.

Meaning: The specified port is now functioning as a Source Routing Spanning Tree port.

Entity Code/Event Code: 29/14

Severity: Info

Message: SP Interface <port_no.> down on circuit <circuit_no.>.

Meaning: The specified port is no longer functioning as a Source Route Spanning Tree port.

Entity Code/Event Code: 29/75

Severity: Info

Message: NetBIOS RIF cache is full.

Meaning: The RIF cache, which lists the addresses of NetBIOS stations and the routes to get to those stations, is full. The system uses this cache to convert NetBIOS broadcast frames to specifically routed frames. When the RIF cache is full, it cannot store new station addresses and routing information, reducing the efficiency of this function.

Action: You may want to increase the number of entries allowed in the NetBIOS RIF cache. You can do this by reconfiguring the Max Name Cache Entries parameter on Site Manager's Source Routing Global Parameters window.

Entity Code/Event Code: 29/76

Severity: Info

Message: NetBIOS QUERY cache is full.

Meaning: The query cache, which lists NetBIOS queries, is full. The system uses this cache to filter redundant NetBIOS query frames. When the query cache is full, it cannot store new queries, reducing the efficiency of this function.

Action: You may want to increase the number of entries allowed in the query cache. You can do this by reconfiguring the Max Number Query Cache Entries on Site Manager's Source Routing Global Parameters window.

Entity Code/Event Code: 29/96

Severity: Info

Message: XB RIF cache is full.

Meaning: The RIF table, which lists the addresses of Source Routing stations and the routes to get to those stations, is full. When the RIF table is full, it cannot store new station addresses and routing information. When the translation bridge receives traffic destined for stations not listed in the table, it must send the traffic to the Source Routing network as explorer frames.

Action: To avoid having an excessive number of explorer frames on the Source Routed network, you may want to increase the number of entries allowed in the RIF table. You can do this by reconfiguring the Max. Translation Entries value on Site Manager's Translation Bridge Global Parameters window, or by specifying a new value for the MIB entry wfBrXbBaseCurrentRifEntries.

Entity Code/Event Code: 29/142

Severity: Info

Message: Source Routing Traffic Filter — Rule <filter_rule_no.>, Circuit <circuit_no.> (Forward to Circuits)

Meaning: A Source Route packet has been forwarded to the specified circuit in accordance with the specified filter rule.

Trace Event

Entity Code/Event Code: 29/24

Severity: Trace

Message: SP Bridge ID <bridge_ID> chosen as new root of Spanning Tree.

Meaning: A Source Route Spanning Tree bridge has been chosen as the root of the Source Route Spanning Tree network.

STA Events

The Statistical Thresholds and Alarms service, referred to as the STA entity, issues the following event messages. The entity code assigned to STA events is 56.

Fault Event

Entity Code/Event Code: 56/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The STA entity experienced a fatal error and is restarting automatically.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if STA fails to restart.

Warning Events

Entity Code/Event Code: 56/2

Severity: Warning

Message: Object *<object_ID>* with value *<value>* *<units>* is *<greater/less_than>* low threshold.

Meaning: The MIB object specified has the value specified and is greater than or less than the low threshold.

Entity Code/Event Code: 56/3

Severity: Warning

Message: Object *<object_ID>* with value *<value>* *<units>* is *<greater/less_than>* medium threshold.

Meaning: The MIB object specified has the value specified and is greater than or less than the medium threshold.

Entity Code/Event Code: 56/4

Severity: Warning

Message: Object *<object_ID>* with value *<value>* *<units>* is *<greater/less_than>* high threshold.

Meaning: The MIB object specified has the value specified and is greater than or less than the high threshold.

Info Events

Entity Code/Event Code: 56/5

Severity: Warning

Message: Service initializing.

Meaning: STA is initializing.

Entity Code/Event Code: 56/6

Severity: Warning

Message: Object *<object_ID>* with value *<value>* *<units>* is *<greater/less_than>* low threshold.

Meaning: The MIB object specified has the value specified and is greater than or less than the low threshold.

Entity Code/Event Code: 56/7

Severity: Warning

Message: Object *<object_ID>* with value *<value>* *<units>* is *<greater/less_than>* medium threshold.

Meaning: The MIB object specified has the value specified and is greater than or less than the medium threshold.

Entity Code/Event Code: 56/8

Severity: Warning

Message: Object *<object_ID>* with value *<value>* *<units>* is *<greater/less_than>* high threshold.

Meaning: The MIB object specified has the value specified and is greater than or less than the high threshold.

SWSERV Events

The Switched Access Service, referred to as the SWSERV entity, issues the following event messages. The entity code assigned to SWSERV events is 58.

Fault Events

Entity Code/Event Code: 58/1

Severity: Fault

Message: Connector COM <*connector_no*> Modem I/F Line Control Gate Died.

Meaning: A software fault occurred.

Action: None required. The line will restart automatically.

Entity Code/Event Code: 58/2

Severity: Fault

Message: Connector COM <*connector_no*>: failed to send indication to modem i/f gate

Meaning: A software fault occurred.

Action: None required. The line will restart automatically.

Warning Events

Entity Code/Event Code: 58/3

Severity: Warning

Message: Connector COM <*connector_no*>: modem not present, V.25bis mode

Meaning: A line configured for V.25bis does not sense the presence of the modem/terminal adapter device.

Action: Check the status of the modem/terminal adapter device.

Entity Code/Event Code: 58/4

Severity: Warning

Message: Connector COM <connector_no.>: no number supplied, V.25bis mode

Meaning: You failed to configure a telephone number that the modem/terminal adapter will use to establish a connection to a WAN.

Action: Use Site Manager or the Technician Interface to configure a telephone number for the modem/terminal adapter.

Entity Code/Event Code: 58/14

Severity: Warning

Message: Connector COM <connector_no.>: out of message buffers, pkts dropped

Meaning: The router could not allocate a buffer.

Action: None required.

Entity Code/Event Code: 58/41

Severity: Warning

Message: Connector COM <connector_no.>: Adapter did not accept CRN command

Meaning: The modem/terminal adapter did not accept the telephone number.

Action: Wait for retry attempts to complete.

Entity Code/Event Code: 58/42

Severity: Warning

Message: Connector COM <connector_no.>: Adapter did not accept CIC command

Meaning: The modem/terminal adapter failed to receive the router's Connect Incoming Call message.

Action: Disable and then enable the synchronous line. Check the telephone numbers configured for the modem/terminal adapter.

Entity Code/Event Code: 58/43

Severity: Warning

Message: Connector COM <connector_no.>: Adapter did not accept DIC command

Meaning: The modem/terminal adapter failed to receive the router's Disconnect Incoming Call message.

Action: Disable and then enable the synchronous line. Check the telephone numbers configured for the modem/terminal adapter.

Entity Code/Event Code: 58/48

Severity: Warning

Message: Connector COM <connector_no.>: Adapter error = <error_code>

Meaning: The connection cannot be made, because the modem/terminal adapter has logged an error condition. Possible error codes are

ET	engaged tone
NS	number not stored
CB	local DCE busy
RT	ring tone
AB	abort call
NT	answer tone not detected
FC	forbidden call
CU	command unknown
MS	message syntax error
PS	parameter syntax error
PV	parameter value error

Action: Refer to your modem documentation for instructions on handling the specified error condition.

Entity Code/Event Code: 58/57

Severity: Warning

Message: Connector COM <connector_no.>: Received packets while waiting for CTS.

Meaning: The router received packets while waiting for CTS. The packets are dropped.

Action: None required.

Entity Code/Event Code: 58/58

Severity: Warning

Message: Connector COM <connector_no.>: Received packets while in the down state.

Meaning: The router received packets while the router was not connected to a WAN. The packets are dropped.

Action: None required.

Entity Code/Event Code: 58/59

Severity: Warning

Message: Connector COM <connector_no.>: Received phone number length > <length>.

Meaning: The router received an incoming telephone number that is too long. The router truncated the number.

Action: Check the telephone number configured on the calling side.

Entity Code/Event Code: 58/60

Severity: Warning

Message: Connector COM <connector_no.>: Received sub-address length > <length>.

Meaning: The router received a subaddress (telephone extension) that is too long. The router truncated the number.

Action: Check the subaddress configured on the calling side.

Entity Code/Event Code: 58/61

Severity: Warning

Message: Connector COM <connector_no.>: unknown char = <character>.

Meaning: The router detected an unknown character in either the telephone number or subaddress of the calling telephone number on an incoming call.

Action: Check the telephone number configuration on the calling side.

Entity Code/Event Code: 58/62

Severity: Warning

Message: Connector COM <connector_no.>: received indication too short, len = <length>.

Meaning: The router received a frame that is too short to contain an ISDN command.

Action: None required.

Entity Code/Event Code: 58/63

Severity: Warning

Message: Connector COM <connector_no.>: received unknown indication — <indication>.

Meaning: The router received an unknown ISDN command.

Action: None required.

Entity Code/Event Code: 58/69

Severity: Warning

Message: Connector COM <connector_no.>: internal error bad mgmt type (type = <type>)

Meaning: The channel management type configured is not valid.

Action: Use Site Manager or the Technician Interface to check the channel management type.

Info Events

Entity Code/Event Code: 58/5

Severity: Info

Message: Connector COM <connector_no.>: Starting, raise dtr mode, is modem connected and turned on?

Meaning: The specified interface has come up in Raise DTR mode.

Entity Code/Event Code: 58/6

Severity: Info

Message: Connector COM <connector_no.>: Site Manager requested line to be started

Meaning: You enabled force dial. The modem/terminal adapter will dial the telephone number immediately.

Entity Code/Event Code: 58/7

Severity: Info

Message: Connector COM <connector_no.>: Site Manager requested line to be stopped

Meaning: You enabled force hangup. The modem/terminal adapter will disconnect the call immediately.

Entity Code/Event Code: 58/22

Severity: Info

Message: Connector COM <connector_no.>: enable requested on cct <circuit_no.>

Meaning: The router has enabled the specified circuit.

Entity Code/Event Code: 58/31

Severity: Info

Message: Connector COM <connector_no.>: Connection established

Meaning: The router has established a connection on the specified interface.

Entity Code/Event Code: 58/44

Severity: Info

Message: Connector COM <connector_no.>: Received call

Meaning: The router received a call for the specified interface.

Entity Code/Event Code: 58/46

Severity: Info

Message: Connector COM <connector_no.>: Received a connect indication (CNX)

Meaning: The router received a connect indication from the modem/terminal adapter on the specified interface.

Entity Code/Event Code: 58/51

Severity: Info

Message: Connector COM <connector_no.>: Circuit has been brought down.

Meaning: The router has brought down the circuit on the specified interface.

Entity Code/Event Code: 58/52

Severity: Info

Message: Connector COM <connector_no.>: Circuit has been brought up.

Meaning: The router has brought up the circuit on the specified interface.

Trace Events

Entity Code/Event Code: 58/8

Severity: Trace

Message: Connector COM <connector_no.>: configured take down time has been reached

Meaning: The takedown time configured for the connection has been reached. The router disconnects the line.

Entity Code/Event Code: 58/18

Severity: Trace

Message: Connector COM <connector_no.>: DCE set DSR while waiting for CTS

Meaning: DSR came up while DTE was waiting for CTS. The router and the modem/terminal adapter are not in sync. If you configured a retry delay, the router disconnects the line and attempts to re-establish the connection.

Entity Code/Event Code: 58/19

Severity: Trace

Message: Connector COM <connector_no.>: DCE set DSR while waiting for IND

Meaning: DSR came up while DTE is waiting for indication or data to be available. The router and the modem/terminal adapter are not in sync. If you configured a retry delay, the router disconnects the line and attempts to re-establish the connection.

Entity Code/Event Code: 58/20

Severity: Trace

Message: Connector COM <connector_no.>: DCE set DSR while sending CFI

Meaning: DSR comes up after DCE sent a CFI. The router and the modem/terminal adapter are not in sync. If you configured a retry delay, the router disconnects the line and attempts to re-establish the connection.

Entity Code/Event Code: 58/21

Severity: Trace

Message: Connector COM <connector_no.>: DCE set DSR TRUE before DTE sent <command>

Meaning: DCE set DSR before DTE sent the specified command. The router and the modem/terminal adapter are not in sync. If you configured a retry delay, the router disconnects the line and attempts to re-establish the connection.

Entity Code/Event Code: 58/26

Severity: Trace

Message: Connector COM <connector_no.>: adapter not responding with CTS line

Meaning: The router has timed out waiting for CTS.

Entity Code/Event Code: 58/27

Severity: Trace

Message: Connector COM <connector_no.>: Connection timeout, retry in progress

Meaning: The router has timed out while trying to make a connection and is attempting again to make a connection.

Entity Code/Event Code: 58/28

Severity: Trace

Message: Connector COM <connector_no.>: Connection retry in progress

Meaning: The router has timed out while trying to make a connection and is attempting again to make a connection.

Entity Code/Event Code: 58/29

Severity: Trace

Message: Connector COM <connector_no.>: Connection establishment timeout.

Meaning: A timeout has occurred while the router was trying to establish a connection.

Entity Code/Event Code: 58/30

Severity: Trace

Message: Connector COM <connector_no.>: Connection inactivity timeout.

Meaning: The connection has timed out due to inactivity.

Entity Code/Event Code: 58/32

Severity: Trace

Message: Connector COM <connector_no.>: DSR lost connection closed.

Meaning: The router is closing the connection, because the router no longer sees DSR (the calling side has gone down).

Entity Code/Event Code: 58/33

Severity: Trace

Message: Connector COM <connector_no.>: Carrier lost connection closed.

Meaning: The router is closing the connection, because the carrier is lost.

Entity Code/Event Code: 58/34

Severity: Trace

Message: Connector COM <connector_no.>: DATA Available.

Meaning: Data is available on the specified interface.

Entity Code/Event Code: 58/35

Severity: Trace

Message: Connector COM <connector_no.>: Sent CRN cmd to <phone_no.>.

Meaning: The router has sent a dial command on the specified interface.

Entity Code/Event Code: 58/36

Severity: Trace

Message: Connector COM <connector_no.>: Sent CIC cmd to connect call.

Meaning: The router has accepted an incoming call.

Entity Code/Event Code: 58/37

Severity: Trace

Message: Connector COM <connector_no.>: Sent DIC cmd to disconnect call.

Meaning: The router is disconnecting a call.

Entity Code/Event Code: 58/38

Severity: Trace

Message: Connector COM <connector_no.>: Adapter accepted CRN command

Meaning: The modem/terminal adapter has accepted the CRN dial command from the router.

Entity Code/Event Code: 58/39

Severity: Trace

Message: Connector COM <connector_no.>: Adapter accepted CIC command

Meaning: The modem/terminal adapter has accepted the CIC dial command from the router.

Entity Code/Event Code: 58/40

Severity: Trace

Message: Connector COM <connector_no.>: Adapter accepted DIC command

Meaning: The modem/terminal adapter has accepted the DIC dial command from the router.

Entity Code/Event Code: 58/45

Severity: Trace

Message: Connector COM <connector_no.>: Received call dropped (number not allowed)

Meaning: The router has rejected a call, because the number is not on the list of telephone numbers from which the router accepts calls. Use Site Manager or the Technician Interface to get the list of numbers that will be accepted by the router.

Entity Code/Event Code: 58/47

Severity: Trace

Message: Connector COM <connector_no.>: Received a connect fail indication (CFI)

Meaning: The router received a connect fail indication while trying to establish a connection.

Entity Code/Event Code: 58/53

Severity: Trace

Message: Connector COM <connector_no.>: CTS has come up.

Meaning: The router has detected CTS.

Entity Code/Event Code: 58/54

Severity: Trace

Message: Connector COM <connector_no.>: DSR has come up.

Meaning: The router has detected DTR.

Entity Code/Event Code: 58/55

Severity: Trace

Message: Connector COM <connector_no.>: Carrier has come up.

Meaning: The carrier has come up.

Entity Code/Event Code: 58/56

Severity: Trace

Message: Connector COM <connector_no.>: CTS has gone down.

Meaning: CTS has gone down on the specified interface.

Entity Code/Event Code: 58/66

Severity: Trace

Message: Connector COM <connector_no.>: retry delay in progress <no.> secs

Meaning: The router received a UP request while the line was disconnected and there is a retry delay in progress.

Action: None required. The UP will be processed after the delay period has expired.

SYNC Events

The synchronous driver service, which serves the DSDE1, DSDE2, QSYNC, and HDLC directories and is referred to as the SYNC entity, issues the following event messages. The entity code assigned to SYNC events is 20.

Fault Event

Entity Code/Event Code: 20/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The driver experienced a fatal error and is restarting automatically. The driver attempts to restart up to five times.

Action: Verify that the configuration is correct. Call the Bay Networks Help Desk if the driver fails to restart.

Warning Events

Entity Code/Event Code: 20/2

Severity: Warning

Message: Connector COM <connector_no.> out of range.

Meaning: The synchronous connector COM <connector_no.> is invalid and ignored.

Action: Modify the configuration file to accurately describe the link module in the specified slot.

Entity Code/Event Code: 20/3

Severity: Warning

Message: Connector COM <connector_no.> transmitter timeout.

Meaning: The synchronous connector COM <connector_no.> could not transmit a BOFL (“Breath of Life”) frame within the BOFL interval.

Action: Check for the presence of a valid external clock from the external equipment or check the configuration.

Entity Code/Event Code: 20/4

Severity: Warning

Message: Connector COM <connector_no.> receiver timeout.

Meaning: The synchronous connector COM <connector_no.> did not receive a BOFL frame within the BOFL interval.

Action: Verify cable integrity. Confirm that the remote end is configured for BOFL transmission.

Entity Code/Event Code: 20/5

Severity: Warning

Message: Connector COM <connector_no.> connect attempts exceeded.

Meaning: A sequence of retransmission attempts disabled the specified synchronous connection, previously providing LLC2 service, because the router was unable to obtain positive acknowledgment of an outstanding frame. The N2, T1, and Connect Retries parameters determine the number of such attempts.

Action: Verify point-to-point connectivity.

Entity Code/Event Code: 20/6

Severity: Warning

Message: Connector COM <connector_no.> not verified with diagnostic.

Meaning: Powerup diagnostics aborted on the synchronous connection COM <connector_no.>.

Action: Rerun powerup diagnostics by issuing the TI **dflags** command to the slot in question if you wish to verify COM <connector_no.> integrity.

Entity Code/Event Code: 20/38

Severity: Warning

Message: Connector COM <connector_no.>: can't run BOFL with chosen WAN protocol.

Meaning: BOFL is configured incorrectly. You cannot enable BOFL for the WAN protocol currently configured.

Action: Either disable the BOFL parameter or change the configuration of the WAN protocol to Wellfleet Standard.

Entity Code/Event Code: 20/39

Severity: Warning

Message: Connector COM <connector_no.>: service must be LLC2 for chosen WAN protocol.

Meaning: The WAN protocol enabled on the specified synchronous connection must also have LLC2 enabled, and it is not.

Action: Enable LLC2 on this connector.

Entity Code/Event Code: 20/40

Severity: Warning

Message: Connector COM <connector_no.>: clock speed does not match other ports.

Meaning: The internal clock speed value on the specified synchronous connection does not match the clock speed value of the other ports configured to clock internally.

Action: Reconfigure the clock speed value so that it matches on every port.

Entity Code/Event Code: 20/44

Severity: Warning

Message: Connector COM <connector_no.>: Data Comms Equipment (DCE) unavailable (connection indicator sig lost)

Meaning: The specified synchronous connection has lost the Data Set Ready signal.

Action: Check your cables.

Entity Code/Event Code: 20/45

Severity: Warning

Message: Connector COM <connector_no.>: Configured MTU of <value_1> is too large, use <value_2> or smaller

Meaning: The MTU on the specified synchronous connection is too large.

Action: Reconfigure the MTU for the specified synchronous connector so that it is equal to or less than the value specified by <value_2>.

Entity Code/Event Code: 20/46

Severity: Warning

Message: Connector COM <connector_no.>, gate id 0x <no.> could not get a buffer.

Meaning: This synchronous interface did not come up, because a buffer was not available to send a message.

Entity Code/Event Code: 20/47

Severity: Warning

Message: Connector COM <connector_no.>, gate id 0x <no.>, encountered an RPC time-out.

Meaning: This synchronous interface did not come up, because an RPC timeout occurred while sending a message to the module driver.

Entity Code/Event Code: 20/48

Severity: Warning

Message: Connector COM <connector_no.> aborting init. No Net Module Present in Module location <no.>.

Meaning: Either the network module in this location is missing or the configuration is incorrect.

Action: Insert the missing network module or correct the configuration.

Entity Code/Event Code: 20/49

Severity: Warning

Message: Connector COM <connector_no.> aborting init. Wrong Net Module type in Module location <no.>.

Meaning: Either the type of network module in this location or the configuration is incorrect.

Action: Insert the correct type of network module or correct the configuration.

Entity Code/Event Code: 20/50

Severity: Warning

Message: Connector COM <connector_no.> aborting init. Net Module <no.> diag failed (status=0x<status_code>).

Meaning: The network module identified by Net Module <no.> failed. The status code indicates the type of failure.

Action: Replace the network module as soon as possible. If you do not have a spare network module now, but you have a spare connector on the existing network module

- Switch the cable associated with the failed circuit to the spare connector.
- Configure a new, identical circuit.
- Delete the failed circuit from the configuration.

Using the spare connector is a temporary measure. When you return the network module, be sure to report the <status_code> and the connector associated with the failure.

Entity Code/Event Code: 20/51

Severity: Warning

Message: Sync Module <module_no.>: co-processor failed (%s): Line Driver for COM <connector_no.> timed out initializing command list

Meaning: The line driver timed out trying to initialize a command list on the sync module. This indicates a coprocessor malfunction.

Action: Reboot the module in this slot. If the error persists, contact the Bay Networks Help Desk.

Entity Code/Event Code: 20/52

Severity: Warning

Message: Sync Module <module_no.>: co-processor failed (%s): Line Driver for COM <connector_no.> timed out waiting for status of <command> command

Meaning: The line driver timed out before the coprocessor could process and return status on command <command>

Action: Reboot the module in this slot. If the error persists, contact the Bay Networks Help Desk.

Entity Code/Event Code: 20/53

Severity: Warning

Message: Sync Module <module_no.>, COM <connector_no.> command <command> failed with status = 0x%02x

Meaning: The coprocessor returned a status for command <command> other than COMPLETED_OK.

Action: The action depends on the status of the command. First, try resetting the board. If this does not work, and this warning persists, contact the Bay Networks Help desk.

Entity Code/Event Code: 20/54

Severity: Warning

Message: Sync Module <module_no.>: co-processor exception <code_tag>:

vector <vector> faulting address — <hex_address>
pc (current) <pc>sr — <sr>
stack pointer <stack_pointer>

Meaning: The coprocessor on the synchronous module has taken an exception. <vector> indicates which type of exception occurred. <faulting address> indicates which address caused the exception. <pc> identifies the PC at which the coprocessor was executing code when the exception occurred. <sr> indicates the value of the SR when the exception occurred. <stack pointer> points at the exception frame pushed on the coprocessor's stack.

If the message indicates “SRAM,” then the coprocessor is executing code from the synchronous module's SRAM, and that code came from the router software image. If the message indicates “PROM (rev. x),” then the coprocessor is executing code from the synchronous module's PROM (with a revision of x). If the revision number does not appear, then the failure occurred before the coprocessor extracted the PROM revision.

Action: GAME resets and restarts all synchronous lines on this module. This error may indicate a hardware problem with the synchronous module. Replace the board if the error persists. Software may be to blame, however, if the new board exhibits the same problem.

Entity Code/Event Code: 20/55

Severity: Warning

Message: Sync Module <module_no.>: co-processor exception <code_tag>:

vector <vector> faulting pc — <faulting_pc>
pc (current) <pc> sr — <sr>
stack pointer <stack_pointer>

Meaning: The coprocessor on the synchronous module has taken an exception. <vector> indicates which type of exception occurred. <faulting pc> indicates the address of the faulted instruction. <pc> is the return PC to which an RTE would return. <sr> is the value of the SR when the exception occurred. <stack pointer> points at the exception frame pushed on the coprocessor's stack.

If the message indicates “SRAM,” then the coprocessor is executing code from the synchronous module's SRAM, and that code was downloaded from the router software image. If the message indicates “PROM (rev. x),” then the coprocessor is executing code from the synchronous module's PROM (with a revision of x). If the revision number does not appear, then the failure occurred before the coprocessor could extract the PROM revision.

Action: GAME resets and restarts all synchronous lines on this module. This error may indicate a hardware problem with the synchronous module. Replace the board if the error persists. Software may be to blame, however, if the new board exhibits the same problem.

Entity Code/Event Code: 20/56

Severity: Warning

Message: Sync Module <module_no.>: co-processor exception <code_tag>:
vector <vector> faulting address — undefined
pc (current) <pc> sr — <sr>
stack pointer <stack_pointer>

Meaning: The coprocessor on a synchronous module has taken an exception. <vector> indicates which type of exception occurred. <faulting address> is undefined for this type of exception. <pc> is the PC at which the coprocessor was executing code when the exception occurred. <sr> is the value of the SR when the exception occurred. <stack pointer> points at the exception frame pushed on the coprocessor's stack.

If the message indicates “SRAM,” then the coprocessor is executing code from synchronous module's SRAM, and that code was downloaded from the router software image. If the message indicates “PROM (rev. x),” then the coprocessor is executing code from the synchronous module's PROM (with a revision of x). If the revision number does not appear, then the failure occurred before the coprocessor could extract the PROM revision.

Action: GAME resets and restarts all synchronous lines on this module. This error may indicate a hardware problem with the synchronous module. Replace the board if the error persists. Software may be to blame, however, if the new board exhibits the same problem.

Entity Code/Event Code: 20/57

Severity: Warning

Message: Sync Module <module_no.>: co-processor failed <code_tag>:
Line Driver for COM <no.> timed out initializing command list

Meaning: The line driver is trying to initialize a command list on the synchronous module. However, the coprocessor on the net module has not cleared the command list header to indicate that the command list is available for initialization. There are times during which a list is not available for initialization. In this case, however, a timeout has occurred, indicating that the coprocessor is not functioning properly. If the message indicates "SRAM," then the coprocessor is executing code from the synchronous module's SRAM, and that code came from the router software image. If the message indicates "PROM (rev. x)," then the coprocessor is executing code from the synchronous module's PROM (with a revision of x). If the revision number does not appear, then the failure occurred before the coprocessor could extract the PROM revision.

Action: Reboot this slot. If the error persists, replace the synchronous module.

Entity Code/Event Code: 20/58

Severity: Warning

Message: Sync Module <module_no.>: co-processor failed <code_tag>:
Line Driver for COM <no.> timed out waiting for status of <display_string> command

Meaning: The line driver issued a command to the coprocessor on the synchronous module. The coprocessor should have processed the command and returned a status (either pass or fail), but a timeout has occurred. If the message indicates "SRAM," then the coprocessor is executing code from the synchronous module's SRAM, and that code was downloaded from the router software image. If the message indicates "PROM (rev. x)," then the coprocessor is executing code from the synchronous module's PROM (with a revision of x). If the revision does not appear, then the failure occurred before the coprocessor could extract the PROM revision.

Action: Reboot this slot. If the error persists, replace the synchronous module.

Entity Code/Event Code: 20/59

Severity: Warning

Message: Sync Module <module_no.>, COM <no.> command <code_tag> failed with status = <status_value>

Meaning: The line driver on an ASN issued a command to the coprocessor on the synchronous module. That command has returned a status other than Completed OK.

Action: The actions depend on the status and the command. Contact the Bay Networks Help Desk for instructions.

Entity Code/Event Code: 20/60

Severity: Warning

Message: Sync Module <module_no.> coprocessor failed (<code_tag>): Coprocessor hung during its self-initialization.

Meaning: Following a module reset or an **EXECUTE** command, the coprocessor hung before finishing its self-initialization.

Action: Reset the board. If the error persists, contact the Bay Networks Help Desk.

Entity Code/Event Code: 20/61

Severity: Warning

Message: Connector <connector_no.> remote loopback detected.

Meaning: A comparison of the destination MAC address in the BOFL packet against the module MAC address indicated a remote loopback condition.

Action: None. The line state sets to SYNC_STATE_REMOTELOOP and the line driver restarts. The line driver remains in a down state until the loopback condition clears.

Entity Code/Event Code: 20/62

Severity: Warning

Message: Connector COM <connector_no.> remote loopback cleared.

Meaning: Following a line driver restart, the connector COM <connector_no.> received a BOFL packet with a correct destination MAC address.

Action: None. The line state sets to SYNC_STATE_UP.

Entity Code/Event Code: 20/63

Severity: Warning

Message: Sync Module <module_no.>: reset gate was killed prematurely with a status of <status>.

Meaning: A special gate performs the sync module reset and initialization. To do so, this gate normally kills itself. In this case, the gate shut down prematurely.

Action: The status <status> may contain clues as to where the gate was in the process when it shut down. Record the status and contact the Bay Networks Help Desk for instructions.

Entity Code/Event Code: 20/71

Severity: Warning

Message: Invalid connector COM <connector_no.> specified for B Channel.

Meaning: An invalid configuration record exists for this ISDN BRI B channel. Specifically, the connector number specified for this B channel is invalid. The B channel driver goes dormant.

Action: Reconfigure this ISDN BRI B channel. This warning should never appear if the configuration is created using Site Manager.

Entity Code/Event Code: 20/72

Severity: Warning

Message: Cannot configure SYNC COM <connector_no.> and ISDN together.

Meaning: This message is AN specific. Due to a hardware limitation in the AN, configuring SYNC COM1 and any ISDN B channel together produces an invalid configuration record. The SYNC driver does not proceed until the disruptive ISDN configuration is deleted.

Action: Either delete the disruptive ISDN (D channel and B channel(s)) interface from this config or delete the configuration for this SYNC port. This warning should never appear if the configuration is created using Site Manager.

Entity Code/Event Code: 20/73

Severity: Warning

Message: Cannot configure ISDN and SYNC COM <connector_no.> together.

Meaning: This message is AN specific. Due to a hardware limitation in the AN, configuring SYNC COM1 and any ISDN B channel together produces an invalid configuration record. The ISDN B channel driver does not proceed until the disruptive SYNC configuration is deleted.

Action: Either delete the disruptive SYNC port from this config or delete the entire ISDN (D channel and B channel(s)) interface from this configuration. This warning should never appear if the configuration is created using Site Manager.

Entity Code/Event Code: 20/77

Severity: Warning

Message: Invalid connector COM <connector_no.> specified for SYNC port.

Meaning: An invalid configuration record exists for this SYNC port. Specifically, the connector number specified for this SYNC port is invalid. The SYNC driver goes dormant.

Action: Reconfigure the SYNC port. This warning should never appear if the configuration is created using Site Manager.

Info Events

Entity Code/Event Code: 20/7

Severity: Info

Message: Service initializing.

Meaning: The synchronous driver is initializing.

Entity Code/Event Code: 20/8

Severity: Info

Message: Connector COM <connector_no.> disabled.

Meaning: The synchronous connection COM <connector_no.> is disabled.

Entity Code/Event Code: 20/9

Severity: Info

Message: Connector COM <connector_no.> enabled.

Meaning: The synchronous connection COM <connector_no.> is enabled.

Entity Code/Event Code: 20/10

Severity: Info

Message: Connector COM <connector_no.> configuration deleted.

Meaning: The record for the specified synchronous connection has been deleted from the configuration.

Entity Code/Event Code: 20/11

Severity: Info

Message: Connector COM <connector_no.> providing LLC1 service.

Meaning: The specified synchronous connection is enabled and providing LLC1 service.

Entity Code/Event Code: 20/12

Severity: Info

Message: Connector COM <connector_no.> providing LLC2 service.

Meaning: The specified synchronous connection is enabled and providing LLC2 service.

Entity Code/Event Code: 20/13

Severity: Info

Message: Connector COM <connector_no.> LLC1 service withdrawn.

Meaning: The specified synchronous connection is not providing LLC1 service.

Entity Code/Event Code: 20/14

Severity: Info

Message: Connector COM <connector_no.> LLC2 service withdrawn.

Meaning: The specified synchronous connection is no longer providing LLC2 service.

Entity Code/Event Code: 20/15

Severity: Info

Message: Connector COM <connector_no.>: KG84A processing enabled.

Meaning: The specified synchronous connection provides KG84A service.

Entity Code/Event Code: 20/41

Severity: Info

Message: Connector COM <connector_no.> KG84A local resynchronization requested

Meaning: The local router detected an error and requested a resynchronization.

Entity Code/Event Code: 20/42

Severity: Info

Message: Connector COM <connector_no.> KG84A remote resynchronization detected

Meaning: The local router detected a resynchronization initiated by the remote router.

Entity Code/Event Code: 20/43

Severity: Info

Message: Connector COM <connector_no.> KG84A resynchronization completed successfully

Meaning: The previous resynchronization was successful.

Entity Code/Event Code: 20/64

Severity: Info

Message: ISDN BRI <connector_no.> B <channel_no.> Channel disabled.

Meaning: The ISDN BRI B channel driver is disabled, but the driver is still loaded in memory.

Entity Code/Event Code: 20/65

Severity: Info

Message: ISDN BRI <connector_no.> B <channel_no.> Channel enabled.

Meaning: The ISDN BRI channel driver is enabled. ISDN functionality passed diagnostics successfully.

Entity Code/Event Code: 20/66

Severity: Info

Message: ISDN BRI <connector_no.> B <channel_no.> Channel configuration deleted.

Meaning: The ISDN BRI B channel driver is deleted and the driver no longer resides in memory.

Entity Code/Event Code: 20/67

Severity: Info

Message: ISDN BRI <connector_no.>, DSL <digital subscriber loop_no.>, B <channel_no.> Channel providing LLC1 service.

Meaning: ISDN service is now available on this B channel. Data can now travel on this B channel.

Entity Code/Event Code: 20/68

Severity: Info

Message: ISDN BRI <connector_no.> B <channel_no.> Channel LLC1 service withdrawn.

Meaning: ISDN service is withdrawn for this B channel. ISDN service is no longer available on this B channel.

SYS Events

The System Record service, referred to as the SYS entity, issues the following event messages. The entity code assigned to SYS events is 60.

Fault Event

Entity Code/Event Code: 60/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The process that maintains the system MIB record crashed.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if the system fails to restart.

Warning Event

Entity Code/Event Code: 60/2

Severity: Warning

Message: No system record configured, creating one.

Meaning: The router software did not configure a system record. It is configuring one now.

Info Event

Entity Code/Event Code: 60/3

Severity: Info

Message: Service initializing.

Meaning: The process that maintains the system record is initializing.

T1 Events

The T1 driver service, referred to as the T1 entity, issues the following event messages. The entity code assigned to T1 events is 34.

Fault Event

Entity Code/Event Code: 34/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The T1 driver experienced a fatal error and is restarting automatically. The driver will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if the T1 driver fails to restart.

Warning Events

Entity Code/Event Code: 34/2

Severity: Warning

Message: Connector DS_<connector_no.> out of range.

Meaning: The T1 connector identified by <connector_no.> is invalid (a value other than 1 or 2) and will be ignored.

Action: Modify the T1 configuration to reflect a connector number of 1 or 2.

Note: This message should not be seen if T1 has been configured via Site Manager, because Site Manager guards against invalid connector identification.

Entity Code/Event Code: 34/3

Severity: Warning

Message: Connector DS_<connector_no.> diagnostic failed.

Meaning: The T1 connector identified by <connector_no.> failed powerup diagnostics and has been disabled.

Action: Verify the integrity of the T1 link module.

Entity Code/Event Code: 34/4

Severity: Warning

Message: Connector DS_<connector_no.> not verified with diagnostic.

Meaning: The T1 connector identified by <connector_no.> has been placed in service. However, powerup diagnostics were aborted/terminated prior to verifying the connection.

Action: Rerun diagnostics to verify the integrity of the T1 link module.

Entity Code/Event Code: 34/5

Severity: Warning

Message: Connector DS_<connector_no.> unknown state variable value.

Meaning: The T1 line driver state MIB object (wfT1state) contained an invalid entry. Valid entries are as follows:

1 for UP

3 for INITializing

4 for NOTPRESENT

Action: None may be required, because T1 will restart the connection.

Entity Code/Event Code: 34/6

Severity: Warning

Message: Connector DS_<connector_no.> fix configuration.

Meaning: T1 detected an error or inconsistency within the configuration record for the connector identified by <connector_no.>.

Action: Verify the configuration record.

Info Events

Entity Code/Event Code: 34/7

Severity: Info

Message: Connector DS_<connector_no.> instance record deleted.

Meaning: The T1 record for the connector identified by <connector_no.> has been deleted from the configuration.

Entity Code/Event Code: 34/8

Severity: Info

Message: Connector DS_<connector_no.> line disabled.

Meaning: T1 service has been disabled on the connector identified by <connector_no.>.

Entity Code/Event Code: 34/9

Severity: Info

Message: Connector DS_<connector_no.> enabled.

Meaning: T1 service has been enabled on the connector identified by <connector_no.>.

Entity Code/Event Code: 34/10

Severity: Info

Message: Connector DS_<connector_no.> providing framer service.

Meaning: T1 is enabled and providing service on the connector identified by <connector_no.>.

Entity Code/Event Code: 34/11

Severity: Info

Message: Connector DS_<connector_no.> red alarm received.

Meaning: T1 received a Red Alarm on the connector identified by <connector_no.>. Receipt of a Red Alarm indicates a remotely detected failure. A Red Alarm generally indicates that the network/CPE equipment has detected an out-of-frame condition (an error in the framing bits).

Entity Code/Event Code: 34/12

Severity: Info

Message: Connector DS_<connector_no.> remote blue alarm transmitted.

Meaning: T1 lost the DS-1 signal from the CPE for more than 150 milliseconds (msec), and has issued a Blue Alarm (an "all 1's" signal).

Entity Code/Event Code: 34/13

Severity: Info

Message: Connector DS_<connector_no.> yellow alarm received.

Meaning: T1 received a Yellow Alarm across the connector identified by <connector_no.>. Receipt of a Yellow Alarm indicates a remotely detected failure.

Entity Code/Event Code: 34/14

Severity: Info

Message: Connector DS_<connector_no.> yellow alarm transmitted.

Meaning: T1 transmitted a Yellow Alarm across the connector identified by <connector_no.>. A Yellow Alarm indicates that T1 has effectively lost the incoming signal across the specified connector.

Entity Code/Event Code: 34/15

Severity: Info

Message: Connector DS_<connector_no.> red recovery alarm cleared.

Meaning: The remotely detected failure that led to the issuance of a Red Alarm has been cleared.

Entity Code/Event Code: 34/16

Severity: Info

Message: Connector DS_<connector_no.> remote blue alarm cleared.

Meaning: The condition(s) that lead to the issuing of a Blue Alarm (indicating loss of signal) has been cleared.

Entity Code/Event Code: 34/17

Severity: Info

Message: Connector DS_<connector_no.> remote yellow alarm removed.

Meaning: The remote end, after issuing a Yellow Alarm, regained the incoming signal.

Entity Code/Event Code: 34/18

Severity: Info

Message: Connector DS_<connector_no.> clock being recovered from port 2.

Meaning: The T1 connector identified by <connector_no.> is recovering the master clock via Port 2.

Entity Code/Event Code: 34/19

Severity: Info

Message: Connector DS_<connector_no.> clock being recovered from port 1.

Meaning: The T1 connector identified by <connector_no.> is recovering the master clock via Port 1.

Entity Code/Event Code: 34/20

Severity: Info

Message: Connector DS_<connector_no.> carrier loss.

Meaning: T1 has detected a loss of the signal carrier across the connector identified by <connector_no.>.

Entity Code/Event Code: 34/21

Severity: Info

Message: Service initializing.

Meaning: T1 service is initializing.

TBL Events

The Routing Table service, referred to as the TBL entity, issues the following event message. The entity code assigned to TBL events is 14.

Fault Event

Entity Code/Event Code: 14/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The Routing Table service experienced a fatal error and the router is restarting. The router will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if the router fails to restart.

TCP Events

The Transmission Control Protocol service, referred to as the TCP entity, issues the following event messages. The entity code assigned to TCP events is 47.

Refer to the tables located at the end of this section for information on TCP error codes and TCP abort reason codes.

Fault Event

Entity Code/Event Code: 47/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: TCP experienced a fatal error and is attempting to restart. TCP will attempt to restart five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if TCP fails to restart.

Info Events

Entity Code/Event Code: 47/2

Severity: Info

Message: TCP Protocol Initializing

Meaning: TCP is initializing.

Entity Code/Event Code: 47/3

Severity: Info

Message: TCP Protocol terminating

Meaning: TCP is terminating.

Entity Code/Event Code: 47/4

Severity: Info

Message: TCP configuration record — Disabled.

Meaning: IP is not running or you disabled TCP.

Entity Code/Event Code: 47/5

Severity: Info

Message: TCP is Up.

Meaning: TCP is running.

Entity Code/Event Code: 47/6

Severity: Info

Message: TCP Opened: <local_IP_address><local_port> —
<remote_IP_address><remote_port> TCB: <connection_ID>

Meaning: TCP opened a connection.

<local_IP_address><local_port> specifies the local IP address and port for the connection; <remote_IP_address> <remote_port> specifies the remote IP address and port for the connection; <connection_ID> is the TCP connection's identification, which Wellfleet uses for trouble-shooting.

Entity Code/Event Code: 47/7

Severity: Info

Message: TCP Error: <error_code> Opening <local_IP_address> <local_port> —
<remote_IP_address><remote_port>TCB: <connection_ID>

Meaning: TCP detected an error. Error codes and meanings are listed in the following table.

<local_IP_address> <local_port> specifies the local IP address and port for the connection; <remote_IP_address> <remote_port> specifies the remote IP address and port for the connection; <connection_ID> is the TCP connection's identification, used by Wellfleet for trouble-shooting.

TCP Error Codes

Error Code	Definition
1	A MIB variable that must be enabled in order for the connection to function has been disabled. Check the configuration of the TCP MIB variables.
2	Internal system error. Call Bay Networks Help Desk for assistance.
3	Internal system error. Call Bay Networks Help Desk for assistance.
4	Internal system error. Call Bay Networks Help Desk for assistance.
5	Internal system error. Call Bay Networks Help Desk for assistance.
6	Internal system error. Call Bay Networks Help Desk for assistance.
7	Internal system error. Call Bay Networks Help Desk for assistance.
8	Internal system error. Call Bay Networks Help Desk for assistance.
9	Indicates a (possibly) transient condition that may persist if the processing load in the router is too heavy.
10	The remote TCP rejected the connection request. Check the configuration of the local and remote TCP.
11	No response was received to the local TCP's connection request. Check the configuration of the local and remote TCP.
12	Internal system error. Call Bay Networks Help Desk for assistance.
13	Indicates a (possibly) transient condition that may persist if the processing load in the router is too heavy.
14	Internal system error. Call Bay Networks Help Desk for assistance.
15	Internal system error. Call Bay Networks Help Desk for assistance.
16	Internal system error. Call Bay Networks Help Desk for assistance.
17	Internal system error. Call Bay Networks Help Desk for assistance.
18	Internal system error. Call Bay Networks Help Desk for assistance.

TCP Error Codes (*continued*)

Error Code	Definition
19	TCP received some data from the remote TCP that is out of order. This is not a fatal error. It indicates that some data has been lost or delayed, but TCP continues to operate.
20	Internal system error. Call Bay Networks Help Desk for assistance.
21	TCP could not allocate a buffer. Indicates a possible transient condition that may persist if the processing load in the router is too heavy.
22	TCP is not configured correctly. Check the configuration of TCP in the MIB.
23	Internal system error. Call Bay Networks Help Desk for assistance.
24	The TCP connection is in the wrong state for the given connection. This is a transient condition that may persist if TCP is not configured correctly.
25	Internal system error. Call Bay Networks Help Desk for assistance.
26	TCP protocol error. Check local and remote TCP configurations.
27	Internal system error. Call Bay Networks Help Desk for assistance.
28	IP is not available. This message may occur if IP is in the process of coming up. If it persists, check the configuration of IP.
29	The specified IP interface is not available. This message may occur if IP is in the process of coming up. If it persists, check the configuration of IP.

Entity Code/Event Code: 47/8

Severity: Info

Message: TCP Closing <local_IP_address><local_port> —
<remote_IP_address><remote_port> TCB: <connection_ID>

Meaning: The TCP connection is closing. <local_IP_address> <local_port> specifies the local IP address and port for the connection; <remote_IP_address> <remote_port> specifies the remote IP address and port for the connection; <connection_ID> is the TCP connection's identification, used by Wellfleet for trouble-shooting.

Entity Code/Event Code: 47/9

Severity: Info

Message: TCP: <function_code> aborting <local_IP_address> <local_port> —
<remote_IP_address><remote_port>

Meaning: TCP is aborting. Wellfleet uses the <function code> for trouble-shooting. <local_IP_address> <local_port> specifies the local IP address and port for the connection; <remote_IP_address> <remote_port> specifies the remote IP address and port for the connection; <connection_ID> is the TCP connection's identification, which Wellfleet uses for trouble-shooting.

Entity Code/Event Code: 47/10

Severity: Info

Message: TCB: <connection_ID> state: <connection_state> reason <reason_code>

Meaning: TCP is aborting. The <connection_state> specifies the status of the TCP connection. Reason codes and definitions are listed in the following table.

TCP Abort Reason Codes

Reason Code	Definition
100	Abort is per client request.
101	Internal system error. Call Bay Networks Help Desk for assistance.
102	All of TCP, or the client's specific connection, was deleted from the MIB via network management.
103	Remote TCP aborted the connection by sending a RESET segment. Check the configuration of the local and remote TCP.
104	Internal system error. Call Bay Networks Help Desk for assistance.
105	The IP interface is disabled. Check the configuration of IP.
106	TCP could not allocate a buffer. The processing load on the router may be too heavy.
107	Internal system call timed out. The processing load on the router may be too heavy.
108	Internal system error. Call Bay Networks Help Desk for assistance.

TCP Abort Reason Codes *(continued)*

Reason Code	Definition
109	Internal system error. Call Bay Networks Help Desk for assistance.
110	Maximum number of retries were sent without acknowledgment from the remote TCP. Check the configuration of the remote TCP.
111	Internal system error. Call Bay Networks Help Desk for assistance.
112	Internal system error. Call Bay Networks Help Desk for assistance.
113	The IP interface is not available. Check the configuration of IP.
114	TCP protocol error. Check the configuration of the local and remote TCP.
115	Connection was idle for too long.
116	Client was idle for too long.
117	Out-of-sequence SYN was received. Check the configuration of the local and remote TCP.
118	Internal system error. Call Bay Networks Help Desk for assistance.
119	Internal system error. Call Bay Networks Help Desk for assistance.
120	Internal system error. Call Bay Networks Help Desk for assistance.

TELNET Events

The Telnet Server service, referred to as the TELNET entity, issues the following event messages. The entity code assigned to TELNET events is 40.

Fault Event

Entity Code/Event Code: 40/1
Severity: Fault
Message: System error, service attempting restart.

Meaning: The Telnet application utility experienced a fatal error and is restarting automatically. Telnet will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if Telnet fails to restart.

Warning Event

Entity Code/Event Code: 40/2

Severity: Warning

Message: Missing Telnet configuration record — Disabled.

Meaning: Telnet is not configured for the router.

Action: Configure Telnet, if desired.

Info Events

Entity Code/Event Code: 40/3

Severity: Info

Message: Connection Manager received connection request from <client_IP_address>

Meaning: The client identified by <IP_address> is attempting to establish a Telnet connection with the Technician Interface.

Entity Code/Event Code: 40/4

Severity: Info

Message: Connection Manager initializing.

Meaning: Telnet is initializing.

Entity Code/Event Code: 40/5

Severity: Info

Message: Connection Manager listening on TCP port <Telnet_port_no.>

Meaning: Technician Interface is ready to receive the client connection.

Entity Code/Event Code: 40/6

Severity: Info

Message: Connection Manager down. Awaiting TELNET enable.

Meaning: Telnet is not enabled for the IP router.

Entity Code/Event Code: 40/7

Severity: Info

Message: Connection manager down. Awaiting TELNET Configuration.

Meaning: Telnet is not configured for the IP router.

Entity Code/Event Code: 40/8

Severity: Info

Message: Connection manager down. Awaiting TCP Enable.

Meaning: TCP is not enabled for the IP router.

Entity Code/Event Code: 40/9

Severity: Info

Message: Session Manager initializing.

Meaning: A Telnet connection is being established.

Entity Code/Event Code: 40/10

Severity: Info

Message: Session Manager terminating for <client_IP_address> <client_port_no.> connection.

Meaning: The Telnet session is terminating.

Entity Code/Event Code: 40/11

Severity: Info

Message: Session Manager up for <client_IP_address> <client_port_no.> connection.

Meaning: The Telnet session is ready.

Entity Code/Event Code: 40/12

Severity: Info

Message: Session Manager down for <client_IP_address> <client_port_no.> connection.

Meaning: The Telnet session is disabled.

Entity Code/Event Code: 40/13

Severity: Info

Message: State of TELNET MIB object changed; restarting

Meaning: The Telnet MIB has been reconfigured. All Telnet sessions are being terminated.

Entity Code/Event Code: 40/14

Severity: Info

Message: TELNET MIB attribute update signal received.

Meaning: The MIB attribute changed. The change is effective for the following Telnet session.

Trace Events**Entity Code/Event Code: 40/15**

Severity: Trace

Message: Connection manager refused connection from <client_IP_address> <client_port_no.>. State: <state>.

Meaning: A request for a Telnet session has been rejected due to insufficient system resources.

Entity Code/Event Code: 40/16

Severity: Trace

Message: Remote session from <client_IP_address> <client_port_no.> disconnected.

Meaning: The Telnet session has been terminated.

Entity Code/Event Code: 40/17

Severity: Trace

Message: Session Manager flow control failed, input queue overflow.

Meaning: An internal error occurred.

TF Events

The event messages that follow are issued by the Traffic Filter service, referred to as the TF entity. The entity code assigned to TF events is 15.

Info Events

Entity Code/Event Code: 15/6

Severity: Info

Message: Traffic Filter Object *<object_ID>* Instance *<instance_ID>* enabled

Meaning: TF enabled the traffic filter indicated by the SNMP object identifier and instance.

Entity Code/Event Code: 15/7

Severity: Info

Message: Traffic Filter Object *<object_ID>* Instance *<instance_ID>* disabled

Meaning: TF disabled the traffic filter indicated by the SNMP object identifier and instance.

Entity Code/Event Code: 15/8

Severity: Info

Message: Traffic Filter Object *<object_ID>* Instance *<instance_ID>* modified

Meaning: TF modified the traffic filter indicated by the SNMP object identifier and instance.

Entity Code/Event Code: 15/9

Severity: Info

Message: Traffic Filter Object *<object_ID>* Instance *<instance_ID>* deleted

Meaning: TF deleted the traffic filter indicated by the SNMP object identifier and instance.

TFTP Events

The event messages that follow are issued by the Trivial File Transfer Protocol service, referred to as the TFTP entity. The entity code assigned to TFTP events is 7.

Fault Event

Entity Code/Event Code: 7/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: TFTP experienced a fatal error and restarts automatically. TFTP will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call the Bay Networks Help Desk if TFTP fails to restart.

Warning Event

Entity Code/Event Code: 7/26

Severity: Warning

Message: <no._events> lost on slot <slot_no.> because of log wrap during log aggregation.

Meaning: The system used the memory allocated for event messages and overwrites the indicated number of older events for this slot with new events. This condition probably indicates that the system is generating events at a rate that signals an error condition.

Action: You can minimize the number of lost events by clearing the log after you save it.

Info Event

Entity Code/Event Code: 7/2

Severity: Info

Message: Protocol initializing.

Meaning: TFTP is initializing.

Trace Events

Entity Code/Event Code: 7/3

Severity: Trace

Message: Request Server received *<read/write>* request of an illegal filename.

Meaning: TFTP received a request that specifies a faulty or nonexistent filename.

Entity Code/Event Code: 7/4

Severity: Trace

Message: Request Server received *<read/write>* request specifying an unsupported mode.

Meaning: TFTP received a request that specifies a nonsupported transfer mode (that is, other than octet or ASCII).

Entity Code/Event Code: 7/5

Severity: Trace

Message: Request Server received malformed request packet from *<IP_address>*.

Meaning: TFTP received a faulty request packet (that is, one that does not conform to the RFC 783 specifications) from the host identified by *<IP_address>*.

Entity Code/Event Code: 7/6

Severity: Trace

Message: Request Server received *<read/write>* request of *<filename>* from *<IP_address>*.

Meaning: TFTP received the indicated *<read or write>* request of *<filename>* from the client identified by *<IP_address>*.

Entity Code/Event Code: 7/7

Severity: Trace

Message: Transfer of <filename> failed with error = <error_code>, <text>.

Meaning: The TFTP transfer of <filename> failed with one of the error codes in the following table.

Error Code (hex)	Text
0	Undefined error. See <text>.
1	File not found.
2	Access violation. File is not readable.
3	Disk or flash is full.
6	File exists.
17	Transfer timed out.

Entity Code/Event Code: 7/8

Severity: Trace

Message: Transfer of <filename> completed successfully.

Meaning: TFTP successfully transferred the file indicated.

TI Events

The Technician Interface service, referred to as the TI entity, issues the following event messages. The entity code assigned to TI events is 0.

Fault Event

Entity Code/Event Code: 0/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: Technician Interface experienced a fatal error and is restarting automatically. Technician Interface will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call the Bay Networks Help Desk in your area if the Technician Interface fails to restart.

Warning Events

Entity Code/Event Code: 0/2

Severity: Warning

Message: Invalid login attempt by <user_ID>

Meaning: The Technician Interface manager reported that an invalid login ID, <user_ID>, was entered at the Technician Interface login prompt.

Action: None required, although the warning may indicate an attempt to breach system security.

Entity Code/Event Code: 0/39

Severity: Warning

Message: Invalid login attempt by <user_ID> on port <port_no.>

Meaning: The Technician Interface manager reported that the login ID received on the indicated port and entered at the Technician Interface login prompt was invalid.

Action: This warning may indicate an attempt to breach system security.

Entity Code/Event Code: 0/40

Severity: Warning

Message: Invalid port <port_no.> specified.

Meaning: The port number specified was invalid.

Action: Specify the correct port number.

Info Events

Entity Code/Event Code: 0/3

Severity: Info

Message: Log cleared!

Meaning: The router's event log has been cleared.

Entity Code/Event Code: 0/41

Severity: Info

Message: TI Port Manager initialized on slot <slot_no.>

Meaning: The Technician Interface Port Manager initialized on the indicated slot.

Entity Code/Event Code: 0/42

Severity: Info

Message: TI Port Manager stopped on slot <slot_no.>

Meaning: The Technician Interface Port Manager stopped on the indicated slot.

Entity Code/Event Code: 0/43

Severity: Info

Message: TI session for port <port_no.> initialized on slot <slot_no.>

Meaning: The Technician Interface session for the indicated port initialized on the slot also indicated in the message.

Entity Code/Event Code: 0/44

Severity: Info

Message: TI session for port <port_no.> stopped on slot <slot_no.>

Meaning: The Technician Interface session for the indicated port stopped on the slot also indicated in the message.

TI_RUI Events

The Technician Interface/Remote User Interface (Site Manager) service, referred to as the TI_RUI entity, issues the following event messages. The entity code assigned to TI_RUI events is 18.

Fault Event

Entity Code/Event Code: 18/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: TI/RUI experienced a fatal error and is restarting automatically. TI/RUI will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if the TI/RUI fails to restart.

Warning Events

Entity Code/Event Code: 18/2

Severity: Warning

Message: Could not find a configuration record, creating one.

Meaning: TI/RUI could not find a configuration record for the remote Technician Interface process.

Action: None required, because TI/RUI creates a base configuration record using defaults.

Entity Code/Event Code: 18/3

Severity: Warning

Message: <no.> events lost on slot <slot_no.> because of log wrap during a log aggregation.

Meaning: Some number of log events <no.> associated with <slot_no.> were missed while aggregating the distributed log during a Save Log operation.

Action: None required. Log aggregation proceeds.

Info Event

Entity Code/Event Code: 18/4

Severity: Warning

Message: Service initializing.

Meaning: TI/RUI is initializing on the single specified slot.

Trace Event

Entity Code/Event Code: 18/5

Severity: Trace

Message: Received processing request for command: <command>.

Meaning: A remote entity executed the command specified by <command>.

Action: None required. TI/RUI executes the specified command.

TNC Events

The Telnet Client service, referred to as the TNC entity, issues the following event messages. The entity code assigned to TNC events is 70.

Fault Events

Entity Code/Event Code: 70/1

Severity: Fault

Message: Telnet "send" error—argument disappeared.

Meaning: The Telnet command lost the sending argument.

Action: Enter the Telnet command using Technician Interface.

Entity Code/Event Code: 70/2

Severity: Fault

Message: Cannot allocate buffers.

Meaning: The router ran out of buffers, probably due to excessive traffic.

Entity Code/Event Code: 70/3

Severity: Fault

Message: Fail to send control message!

Meaning: The router failed to deliver a control message.

Action: Verify that the configuration is correct. Call the Bay Networks Help Desk if the problem persists.

Entity Code/Event Code: 70/4

Severity: Fault

Message: No room in netobuf for *<command_string>*.

Meaning: TCP cannot transmit data fast enough. The Telnet outgoing buffer is full.

Action: Examine the TCP configuration.

Entity Code/Event Code: 70/5
Severity: Fault
Message: *<command_type>*: no command!!
Meaning: The request does not match the *<command_type>*.
Action: None required. The data may be corrupted.

Warning Events

Entity Code/Event Code: 70/6
Severity: Warning
Message: Telnet Client disabled, outbound session aborted.
Meaning: Telnet Client disables during an outbound session and the outbound session closes.
Action: Enable Telnet Client.

Entity Code/Event Code: 70/7
Severity: Warning
Message: TCP goes down, Telnet outbound session aborted.
Meaning: TCP has gone down (crashes or disables) during an outbound session.
Action: Enable TCP.

Entity Code/Event Code: 70/8
Severity: Warning
Message: Missing Telnet Client configuration record — disabled.
Meaning: TNC cannot find the configuration record.
Action: Configure Telnet Client if you want to run outbound Telnet.

Info Events

Entity Code/Event Code: 70/9

Severity: Info

Message: Telnet outbound session connected to *<remote_IP_address>*.

Meaning: A Telnet outbound session is connected to a remote host.

Entity Code/Event Code: 70/10

Severity: Info

Message: Telnet outbound session to *<remote_IP_address>* closed.

Meaning: The Telnet outbound session closes when you log off from the remote system.

Entity Code/Event Code: 70/11

Severity: Info

Message: Telnet Client not configured, the MIB keeper down.

Meaning: You did not configure Telnet Client and the MIB keeper gate goes down.

Entity Code/Event Code: 70/12

Severity: Info

Message: Telnet Client disabled, the MIB keeper down.

Meaning: Telnet Client disables and the MIB keeper gate goes down.

Entity Code/Event Code: 70/13

Severity: Info

Message: Telnet Client MIB keeper is up.

Meaning: You configured and enabled Telnet Client.

TOKEN_RING Events

The Token Ring Driver service, referred to as the TOKEN_RING entity, issues the following event messages. The entity code assigned to TOKEN_RING events is 26.

Fault Event

Entity Code/Event Code: 26/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The Token Ring driver experienced a fatal error and is restarting automatically. The driver will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if the Token Ring driver fails to restart.

Warning Events

Entity Code/Event Code: 26/2

Severity: Warning

Message: Connector MAU<connector_no.> cable connection fault.

Meaning: The Token Ring Driver detected a faulty connection at the specified connector.

Action: Check for a loose or disconnected cable; verify hardware integrity.

Entity Code/Event Code: 26/3

Severity: Warning

Message: Connector MAU<connector_no.> Ring beaconing on insertion (Ring speed incorrect?).

Meaning: The Token Ring adapter received a beacon MAC frame after attempting insertion into the Token Ring.

Action: Ensure that the Token Ring interface is configured to match the speed of the ring.

Entity Code/Event Code: 26/4

Severity: Warning

Message: Connector MAU<connector_no.> diagnostic failed.

Meaning: The specified Token Ring connector failed powerup diagnostics and has been disabled.

Action: Verify the integrity of the Token Ring link module.

Entity Code/Event Code: 26/5

Severity: Warning

Message: Connector MAU<*connector_no.*> out of range.

Meaning: The configured Token Ring connection is invalid and will be ignored.

Action: Repair the configuration record to provide a valid connection value.

Entity Code/Event Code: 26/6

Severity: Warning

Message: Connector MAU<*connector_no.*> not verified with diagnostic.

Meaning: Powerup diagnostics were aborted/terminated prior to verifying the specified Token Ring connection.

Action: Rerun diagnostics to verify the integrity of the Token Ring link module.

Entity Code/Event Code: 26/7

Severity: Warning

Message: Connector MAU<*connector_no.*> incorrect Bud/Mac prom rev.

Meaning: The Token Ring link module is out of revision and is not supported by the current software revision.

Action: Upgrade the Token Ring link module.

Entity Code/Event Code: 26/63

Severity: Warning

Message: Connector MAU<*connector_no.*>, gate id 0x<*no.*>, could not get a buffer.

Meaning: This interface did not come up, because a buffer was not available to send a message.

Entity Code/Event Code: 26/64

Severity: Warning

Message: Connector MAU<*connector_no.*>, gate id 0x<*no.*>, RPC timed out.

Meaning: This interface did not come up, because an RPC timeout occurred while sending a message to the module driver.

Entity Code/Event Code: 26/65

Severity: Warning

Message: Connector MAU<connector_no.> aborting init. No Net Module present in module location <no.>.

Meaning: Either the network module in this location is missing or the configuration is incorrect.

Action: Insert the missing network module or correct the configuration.

Entity Code/Event Code: 26/66

Severity: Warning

Message: Connector MAU<connector_no.> aborting init. Wrong Net Module type in module location <no.>.

Meaning: Either the type of network module in this location or the configuration is incorrect.

Action: Insert the correct type of network module or correct the configuration.

Entity Code/Event Code: 26/67

Severity: Warning

Message: Connector MAU<connector_no.> aborting init. Net Module <no.> diag failed (status=0x<status_code>).

Meaning: The net module identified by Net Module <no.> failed. The status code indicates the type of failure.

Action: Replace the network module as soon as possible. If you do not have a spare network module now, but you have a spare connector on the existing network module:

- Switch the cable associated with the failed circuit to the spare connector.
- Configure a new, identical circuit.
- Delete the failed circuit from the configuration.

Using the spare connector is a temporary measure. When you return the network module to Wellfleet, be sure to report the <status_code> and the connector associated with the failure.

Info Events

Entity Code/Event Code: 26/8

Severity: Info

Message: Service initializing.

Meaning: Token Ring service is initializing.

Entity Code/Event Code: 26/9

Severity: Info

Message: Connector MAU<connector_no.> loaded FASTMAC <revision_no.>

Meaning: The accelerator microcode has been downloaded to the Token Ring link module.

Entity Code/Event Code: 26/10

Severity: Info

Message: Connector MAU<connector_no.> disabled.

Meaning: Token Ring service has been disabled on the specified connector.

Entity Code/Event Code: 26/11

Severity: Info

Message: Connector MAU<connector_no.> enabled.

Meaning: Token Ring service has been enabled on the specified connector.

Entity Code/Event Code: 26/12

Severity: Info

Message: Connector MAU<connector_no.> configuration deleted.

Meaning: The specified Token Ring record has been deleted from the configuration.

Entity Code/Event Code: 26/13

Severity: Info

Message: Connector MAU<connector_no.> providing LLC1 service.

Meaning: The specified Token Ring connection is enabled and providing LLC1 service.

Entity Code/Event Code: 26/14

Severity: Info

Message: Connector MAU<*connector_no.*> LLC1 service withdrawn.

Meaning: The specified Token Ring connection is no longer providing LLC1 service.

Entity Code/Event Code: 26/15

Severity: Info

Message: Connector MAU<*connector_no.*> Ring Beacons.

Meaning: The Token Ring adapter observed Beacon frames on the ring, indicating the presence of a hard error that renders the ring inoperable.

Entity Code/Event Code: 26/16

Severity: Info

Message: Connector MAU<*connector_no.*> This node Beacons the ring.

Meaning: The Token Ring adapter observed a hard ring error on the Token Ring accessed by the specified circuit and initiated the transmittal of beacon frames.

Entity Code/Event Code: 26/17

Severity: Info

Message: Connector MAU<*connector_no.*> Ring Recovered.

Meaning: The Token Ring adapter observed Claim Token MAC frames on the ring accessed by the specified circuit. Claim Token MAC frames indicate that the ring is recovering from an error condition.

Entity Code/Event Code: 26/48

Severity: Info

Message: Connector MAU<*connector_no.*> loaded Texas Instruments BUD/MAC <*revision_no.*> on Silicon <*revision_no.*>.

Meaning: The Token Ring link module downloaded the Texas Instruments BUD/MAC microcode.

Entity Code/Event Code: 26/51

Severity: Info

Message: Connector MAU <connector_no.> loaded <token_ring_adaptor_microcode>.

Meaning: The Token Ring link module downloaded the specified version of the Token Ring adapter microcode.

Entity Code/Event Code: 26/59

Severity: Info

Message: Connector MAU <connector_no.> transitioned to single station (only station on the ring).

Meaning: The Token Ring interface detected that it was the only station on the ring for 30 seconds. The system is reconfiguring the Token Ring interface, reinitializing the interface and flushing all routing tables associated with the interface.

Entity Code/Event Code: 26/60

Severity: Info

Message: Connector MAU <connector_no.> failed lobe wrap test during beacon auto-removal process.

Meaning: The Token Ring interface has withdrawn itself from the ring while the ring was beaconing, because it detected a fault on its own cable lobe.

Action: If this event occurs more than five times, replace the Token Ring hardware.

Entity Code/Event Code: 26/61

Severity: Info

Message: Connector MAU<connector_no.> received remove ring station MAC frame request.

Meaning: A Configuration Report Server sent a Remove Ring Station MAC frame to this Token Ring interface, instructing the interface to remove itself from the Token Ring.

Action: Use a Token Ring LAN Manager station to determine why the Configuration Report Server sent the Remove Ring Station MAC frame to this interface.

TTY Events

The Teletypewriter service, referred to as the TTY entity, issues the following event messages. The entity code assigned to TTY events is 17.

Fault Event

Entity Code/Event Code: 17/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The TTY driver experienced a fatal error and is restarting automatically. TTY will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if TTY fails to restart.

Warning Events

Entity Code/Event Code: 17/2

Severity: Warning

Message: DUART detected Framing error. Total: *<total>*

Meaning: A transmission error has occurred.

Entity Code/Event Code: 17/3

Severity: Warning

Message: DUART detected Overrun error. Total: *<total>*

Meaning: A transmission error has occurred.

Entity Code/Event Code: 17/4

Severity: Warning

Message: DUART detected Parity error. Total: *<total>*

Meaning: A transmission error has occurred.

Entity Code/Event Code: 17/8

Severity: Warning

Message: DUART detected Framing error on port <port_no.>

Meaning: A transmission error has occurred.

Entity Code/Event Code: 17/9

Severity: Warning

Message: DUART detected Overrun error on port <port_no.>

Meaning: A transmission error has occurred.

Entity Code/Event Code: 17/10

Severity: Warning

Message: DUART detected Parity error on port <port_no.>

Meaning: A transmission error has occurred.

Info Events

Entity Code/Event Code: 17/5

Severity: Info

Message: DUART Modem connection established.

Meaning: A remote Technician Interface connection has been established.

Entity Code/Event Code: 17/6

Severity: Info

Message: DUART Modem disconnected — hang-up.

Meaning: A remote Technician Interface connection has been terminated.

Entity Code/Event Code: 17/7

Severity: Info

Message: Input FIFO Overflow error — data lost. Total: <total>

Meaning: The system did not respond to the input within the time allotted and the input overflowed in the FIFO buffer, causing a loss of data.

Entity Code/Event Code: 17/11

Severity: Info

Message: Input FIFO Overflow error on port <port_no.>

Meaning: The system did not respond to input from the designated port within the time allotted, and the input overflowed in the FIFO buffer.

VINES Events

The Virtual Networking System service, referred to as the VINES entity, issues the following event messages. The entity code assigned to VINES events is 23.

Fault Event

Entity Code/Event Code: 23/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: VINES experienced a fatal error and restarts automatically. VINES will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call the Bay Networks Help Desk if VINES fails to restart.

Warning Event

Entity Code/Event Code: 23/49

Severity: Warning

Message: Illegal serial number <*serial_no.*> used as Network ID.

Meaning: The router's network ID is an illegal serial number.

Action: Verify that the address is correct. If the address is correct and the problem persists, delete VINES from the router and reconfigure it using the default parameters. If this does not resolve the problem, call the Bay Networks Help Desk.

Info Events

Entity Code/Event Code: 23/2

Severity: Info

Message: Protocol initializing.

Meaning: VINES is initializing.

Entity Code/Event Code: 23/3

Severity: Info

Message: Protocol terminating.

Meaning: VINES is terminating.

Entity Code/Event Code: 23/4

Severity: Info

Message: Interface up on circuit <*circuit_no.*>.

Meaning: The router enables the circuit identified by <*circuit_no.*>, thus providing VINES service to the interface.

Entity Code/Event Code: 23/5

Severity: Info

Message: Interface down on circuit <ircuit_no.>.

Meaning: The router disables the circuit identified by <ircuit_no.>, thus disabling VINES service to the interface.

Entity Code/Event Code: 23/6

Severity: Info

Message: Automode RTP enabled.

Meaning: You enabled both Sequenced and Nonsequenced RTP on the router by accepting the default, Automode, for the RTP Mode parameter.

Entity Code/Event Code: 23/7

Severity: Info

Message: Sequenced RTP enabled.

Meaning: You enabled Sequenced RTP on the router by setting the RTP Mode parameter to Sequenced.

Entity Code/Event Code: 23/8

Severity: Info

Message: Nonsequenced RTP enabled.

Meaning: You enabled Nonsequenced RTP on the router by setting the RTP Mode parameter to Nonsequenced.

Entity Code/Event Code: 23/10

Severity: Info

Message: Inverse ARP is enabled on VINES interface <ircuit_no.>

Meaning: You disabled Inverse ARP support on this interface by setting the Inverse ARP Enable parameter to disable.

Entity Code/Event Code: 23/11

Severity: Info

Message: Split Horizon for StreetTalk disabled on VINES interface <circuit_no.>.

Meaning: You set the Split Horizon for STALK parameter to Disable. This interface does not support Split Horizon for routing StreetTalk (STALK) packets.

Entity Code/Event Code: 23/14

Severity: Info

Message: VINES TF — Rule <filter_rule_no.>, Cct <circuit_no.> (Drop packet) — Pkt dst to <network_ID>.<subnetwork_ID>.

Meaning: The router dropped a VINES packet in accordance with the specified filter rule.

Entity Code/Event Code: 23/15

Severity: Info

Message: VINES TF — Rule <filter_rule_no.>, Cct <circuit_no.> (Log only) — Pkt dst to <network_ID>.<subnetwork_ID>.

Meaning: The router logged a VINES packet in accordance with the specified filter rule.

Trace Events

Entity Code/Event Code: 23/16

Severity: Trace

Message: VINES TF — Rule <filter_rule_no.>, Cct <circuit_no.> (Accept packet) — Pkt dst to <network_ID>.<subnetwork_ID>.

Meaning: The router accepted a VINES packet in accordance with the specified filter rule.

Entity Code/Event Code: 23/19

Severity: Trace

Message: Node <network_ID>.<subnetwork_ID> from Cct <circuit_no.> added to Table of Neighbors.

Meaning: The adjacent VINES node, which has an address of <network_ID>.<subnetwork_ID>, is now a reachable address.

Entity Code/Event Code: 23/20

Severity: Trace

Message: Node <network_ID>.<subnetwork_ID> removed from Table of Neighbors.

Meaning: The adjacent VINES node, which has an address of <network_ID>.<subnetwork_ID>, is no longer a reachable address.

Entity Code/Event Code: 23/21

Severity: Trace

Message: Network <network_ID> from Cct <circuit_no.> added to Table of Networks.

Meaning: The router learned of a new network and added it to the table of networks.

Entity Code/Event Code: 23/22

Severity: Trace

Message: Network <network_ID> removed from Table of Networks.

Meaning: The router removed a network from the table of networks; the network is no longer reachable.

Entity Code/Event Code: 23/23

Severity: Trace

Message: ARP Assignment issued with subnet <network_ID>.

Meaning: The router assigned a VINES network number to the client PC.

X25 Events

The X.25 service, referred to as the X25 entity, issues the following event messages. The entity code assigned to X25 events is 43.

Fault Event

Entity Code/Event Code: 43/1

Severity: Fault

Message: System Error, service attempting restart

Meaning: X.25 experienced a fatal error and is restarting automatically. X.25 will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if X.25 fails to restart.

Warning Events

Entity Code/Event Code: 43/2

Severity: Warning

Message: Trying to free invalid Timer descriPtor.

Meaning: An X.25 timer that was marked for deletion was not found.

Action: None required. An error has occurred; however, the router will continue to run normally.

Entity Code/Event Code: 43/3

Severity: Warning

Message: DP_NEWDP received from unknown circuit <ircuit_no.>.

Meaning: IP or OSI is trying to establish a connection for circuit <ircuit_no.>, which is not found in the X.25 service record instance.

Action: Check the configuration of circuit <ircuit_no.>.

Entity Code/Event Code: 43/4

Severity: Warning

Message: Line error has occurred, X.25 packet layer.

Meaning: A line error has occurred at the X.25 packet-layer level.

Action: None required. The router will terminate and then reinitialize the line.

Entity Code/Event Code: 43/5

Severity: Warning

Message: Error in deassembly of X.25 packets.

Meaning: The router has detected an error during X.25 packet decapsulation.

Action: Check the X.25 configuration to see if the window size, packet size, and flow control values are set correctly.

Entity Code/Event Code: 43/6

Severity: Warning

Message: Error in allocation of GAME buffer.

Meaning: The router denied a request for a GAME buffer; thus a buffer loss occurred.

Entity Code/Event Code: 43/7

Severity: Warning

Message: Error in X.25 buffer pool allocation.

Meaning: The router's buffer pool allocated for X.25 packets has been depleted. As a result, an error occurred.

Entity Code/Event Code: 43/8

Severity: Warning

Message: Error in Data Request to X.25 layer.

Meaning: A packet-level error has occurred. As a result, a data packet is lost.

Entity Code/Event Code: 43/9

Severity: Warning

Message: NWIF Register to X25 failed, line <line_no.>, cct <circuit_no.>, pid <protocol_identifier>.

Meaning: An error occurred when IP or OSI attempted to register with the packet layer.

Action: Check the X.25 DDN/PDN service records and associated protocols.

Entity Code/Event Code: 43/10

Severity: Warning

Message: NWIF UnRegister to X25 failed, cct <circuit_no.>, pid <protocol_identifier>

Meaning: An error occurred when IP or OSI attempted to unregister with the packet layer.

Action: Check the X.25 configuration.

Entity Code/Event Code: 43/11

Severity: Warning

Message: X.25 OutBound Data Flow Controlled on Point to Point circuit.

Meaning: An outbound data packet was lost on a point-to-point circuit. The router closed the X.25 packet-layer window and cannot send data on this circuit.

Action: Check the X.25 configuration for the window size and packet size settings.

Entity Code/Event Code: 43/12

Severity: Warning

Message: Registration of X.25 Packet Layer has failed.

Meaning: The router attempted to register the current configuration with the packet layer, but failed. The X.25 packet-layer entity will not operate with the current X.25 configuration.

Action: Check the X.25 packet-layer configuration.

Entity Code/Event Code: 43/13

Severity: Warning

Message: X25 Line Configuration Error.

Meaning: The router has detected a configuration error at the line level. The X.25 services entity will not operate on this interface with the current X.25 configuration.

Action: Check the X.25 configuration.

Entity Code/Event Code: 43/14

Severity: Warning

Message: Initialization of SVC's failed.

Meaning: The router's attempt to initialize a switched virtual circuit failed.

Action: Check the X.25 configuration.

Entity Code/Event Code: 43/29

Severity: Warning

Message: DDNX25/BFE has entered emergency mode for line <line_no.>

Meaning: The BFE attached to line <line_no.> has entered emergency mode. This may cause subsequent traffic to fail, because the router does not explicitly support emergency mode.

Entity Code/Event Code: 43/30

Severity: Warning

Message: DDNX25/BFE has exited emergency mode for line <line_no.>

Meaning: The BFE attached to line <line_no.> has exited emergency mode.

Info Events

Entity Code/Event Code: 43/15

Severity: Info

Message: X25 Started — Disabled.

Meaning: The X.25 software started up, then was disabled.

Entity Code/Event Code: 43/16

Severity: Info

Message: X25 Running.

Meaning: The X.25 software is running and should be able to route traffic on the network.

Entity Code/Event Code: 43/17

Severity: Info

Message: X25 Enabled.

Meaning: The X.25 software is currently enabled on the router.

Entity Code/Event Code: 43/18

Severity: Info

Message: X.25 VC added to circuit, Load Balancing allowed.

Meaning: A virtual circuit was enabled on one of the router's X.25 interfaces. If more than a single virtual circuit is configured to the same destination X.121 address, then the router will allow load balancing of X.25 traffic.

Entity Code/Event Code: 43/19

Severity: Info

Message: Inbound Call rejected, no record/max connection limit.

Meaning: The router received an inbound call request packet that exceeded the maximum number of allowable connections configured between this X.121 address and the remote X.121 address specified in the call request packet. As a result, the call request was dropped.

Entity Code/Event Code: 43/20

Severity: Info

Message: Network Interface Registration to X25 completed,
line-*<line_no.>*, cct- *<circuit_no.>*, pid- *<protocol identifier>*.

Meaning: The X.25 network has registered the router's X.25 network interface specified by line-*<line_no.>*, cct- *<circuit_no.>* for pid- *<protocol_ID>*.

Entity Code/Event Code: 43/22

Severity: Info

Message: Packet configuration record deleted for connector <connector_no.>.

Meaning: The X.25 packet-level configuration record for connector <connector_no.> has been deleted.

Entity Code/Event Code: 43/23

Severity: Info

Message: Invalid Service record configured for line <line_no.>.

Meaning: An invalid or incorrect network services record has been configured on line <line_no.>.

Entity Code/Event Code: 43/24

Severity: Info

Message: Initializing X.25 line on slot <slot_no.>, connector <connector_no.>.

Meaning: The router is initializing the X.25 interface that is configured on slot <slot_no.>, connector <connector_no.>.

Entity Code/Event Code: 43/25

Severity: Info

Message: X.25 line <line_no.> received DISC from link level.

Meaning: The X.25 interface configured on line <line_no.> was issued a disconnect from the link level, using the **disc** command.**Entity Code/Event Code:** 43/26

Severity: Info

Message: X.25 line <line_no.> received RESET from link level.

Meaning: The X.25 interface configured on line <line_no.> was issued a reset, using the **reset** command.

Entity Code/Event Code: 43/27

Severity: Info

Message: X.25 line <line_no.> is disabled.

Meaning: The X.25 line is disabled.

Entity Code/Event Code: 43/28

Severity: Info

Message: DDNX25/BFE processing enabled for line <line_no.>

Meaning: The router enabled BFE services on line <line_no.>.

XMODEM Events

The Xmodem/Ymodem service, referred to as the XMODEM entity, issues the following event messages. The entity code assigned to XMODEM events is 42.

Fault Event

Entity Code/Event Code: 42/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: The Xmodem service experienced a fatal error and is attempting to restart.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if the Xmodem service fails to restart.

Info Event

Entity Code/Event Code: 42/2

Severity: Info

Message: <current_time> XMODEM <version_no.> command line: <current_command_line>

Meaning: Wellfleet used the specified version of the Xmodem service. This message also includes the current system time and the current command line.

XNS Events

The Xerox Networking Systems service, referred to as the XNS entity, issues the following event messages. The entity code assigned to XNS events is 31.

Fault Event

Entity Code/Event Code: 31/1

Severity: Fault

Message: System error, service attempting restart.

Meaning: XNS experienced a fatal error and is restarting automatically. XNS will attempt to restart up to five times.

Action: Verify that the configuration is correct. Call Bay Networks Help Desk if XNS fails to restart.

Info Events

Entity Code/Event Code: 31/2

Severity: Info

Message: Protocol initializing

Meaning: XNS is initializing.

Entity Code/Event Code: 31/3

Severity: Info

Message: Protocol terminating

Meaning: XNS is terminating.

Entity Code/Event Code: 31/4

Severity: Info

Message: XNS on Interface <address> up on circuit <circuit_no.>

Meaning: The interface indicated has come up on the circuit indicated.

Entity Code/Event Code: 31/5

Severity: Info

Message: XNS on Interface <address> down on circuit <circuit_no.>

Meaning: The interface indicated has gone down on the circuit indicated.

Entity Code/Event Code: 31/37

Severity: Info

Message: ADD Nwif Network <network_address> Host <host_address>

Meaning: The router's full XNS address has been added to the table for an interface.

Entity Code/Event Code: 31/38

Severity: Info

Message: DEL Nwif Network <network_address> Host <host_address>

Meaning: The router's full XNS address has been deleted from the table for an interface.

Entity Code/Event Code: 31/39

Severity: Info

Message: Nwif from MIB Active Network <network_address> Host <host_address>

Meaning: The record for an interface is active and the XNS routing software has read the information.

Entity Code/Event Code: 31/40

Severity: Info

Message: Nwif from MIB Non-active Network <network_address> Host <host_address>

Meaning: The software has detected that a MIB interface record is inactive.

Entity Code/Event Code: 31/41

Severity: Info

Message: Network <network_address> mapped to cct <circuit_no.>

Meaning: The interface for the network indicated is monitoring the status of the associated circuit.

Entity Code/Event Code: 31/46

Severity: Info

Message: Traffic Filter — drop: Rule <filter_rule_no.>, circuit <circuit_no.> Network <network_address> Host <host_address>

Meaning: A packet-matching filter rule <filter_rule_no.> was received on <circuit_no.>. The packet was dropped as specified by the filter.

Entity Code/Event Code: 31/47

Severity: Info

Message: Traffic Filter: Rule <filter_rule_no.>, circuit <circuit_no.>

Meaning: A packet-matching filter rule <filter_rule_no.> was received on <circuit_no.>. The packet was dropped as specified by the filter.

Entity Code/Event Code: 31/48

Severity: Info

Message: RTM out of BUFFERS

Meaning: The Routing Table Manager process is out of buffers. This condition will hinder propagation of information to other slots.

Trace Events

Entity Code/Event Code: 31/7

Severity: Trace

Message: Network <network_address> added to Table of Networks

Meaning: The network indicated was added to the table of networks.

Entity Code/Event Code: 31/8

Severity: Trace

Message: Network <network_address> removed from Table of Networks

Meaning: The network indicated was deleted from the table of networks.

Entity Code/Event Code: 31/9

Severity: Trace

Message: Host <host_address> added to Table of Hosts

Meaning: The host indicated was added to the table of hosts.

Entity Code/Event Code: 31/10

Severity: Trace

Message: Host <host_address> deleted from Table of Hosts

Meaning: The host indicated was deleted from the table of hosts.

Entity Code/Event Code: 31/11

Severity: Trace

Message: IP_recv received operation <1/2> from Host <host_address>

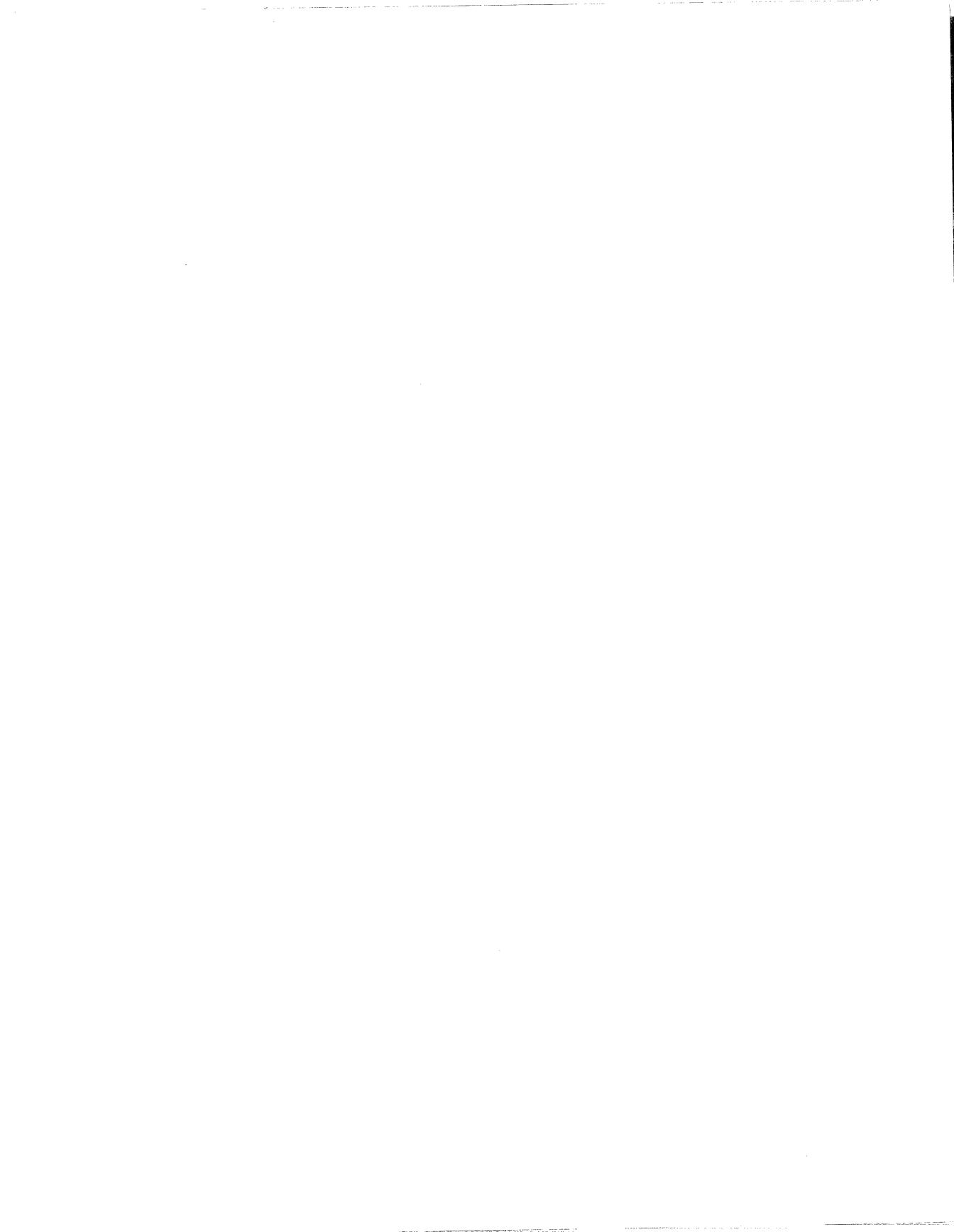
Meaning: An XNS RIP packet was received from the network and host indicated. Operation 1 indicates that the packet is a RIP request. Operation 2 indicates that the packet is a RIP response.

Entity Code/Event Code: 31/12

Severity: Trace

Message: IP_update sent network <target_network_address> hops <no_hops> from Network <source_network_address>

Meaning: An XNS RIP update packet was sent to the target network indicated.





Bay Networks

The Merged Company of SynOptics and Wellfleet

8 Federal Street
Billerica, MA 01821



Printed in U.S.A. on Recycled Paper