



Cornerstone

CMTS 1500 v 4.3 Error Codes Guide

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Cornerstone

CMTS 1500 v 4.3 Error Codes Guide

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About this document

This document provides basic troubleshooting and diagnostics information for the Cornerstone® Cable Modem Termination System 1500 (CMTS 1500), Version 4.2 software.

This document also lists and describes the following:

- power-up diagnostic codes for the CMTS
- DOCSIS 1.1 event codes and status messages
- CMTS event codes and status messages

The DOCSIS 1.1 and CMTS event code sections contain the following:

- event ID—value that identifies the event contained in the event log
- event text message—message displayed on the screen describing the event
- event text definition—clear definition of the text message
- priority—level of priority

The levels of priority for an event ID are:

- emergency—fatal error, cannot recover
- alert—a condition that should be corrected immediately
- critical—critical condition such as NVRAM is full
- error—non-fatal error, may or may not require action
- warning—warning message
- notice—condition that is not error connected but may require special handling
- information—information message, no action required
- debug—internal debug information

The event text messages (messages that describe the event displayed on the screen) contain specific format conventions for the “%” symbol.

They are:

- %x—Refers to the hexadecimal number
- %d—Refers to the decimal number
- %s—Refers to the ASCII string

Audience

This document is for technicians and systems administrators who work with the Cornerstone Cable Modem Termination System (CMTS) 1500, Version 4.2 software.

CMTS 1500 documents

The documentation suite for the CMTS 1500 includes the following:

- *Cornerstone CMTS 1500 v 4.2 Installation Guide*, ARSVD00379
- *Cornerstone CMTS 1500 v 4.2 User Guide*, ARSVD00380
- *Cornerstone CMTS 1500 v 4.2 Command Line Reference Guide*, ARSVD00381
- *Cornerstone CMTS 1500 v 4.2 CLI Quick Reference Guide*, ARSVD00542
- *Cornerstone CMTS 1500 v 4.2 Error Codes Guide*, ARSVD00541
- *Cornerstone CMTS 1500 v 4.2 Release Notes*, ARSVD00382
- *Cornerstone CMTS 1500 v 4.2 Customer Letter*, ARSVD00383

Related documents

Other documents related to the CMTS 1500 include:

- *Modular Redundant Chassis Installation and Operations Guide*, ARSVD00230
- *Using the DOCSIS LCn Provisioning Server*, ARSVD00081
- *Release Notes for the DOCSIS LCn Provisioning Server*, 304764
- *Cornerstone Cable Provisioning System 2000 v 1.1.1 System Administrator's Guide*, 309932-A Rev 01
- *Cornerstone Cable Provisioning System 2000 v 1.1.1 User's Guide*, 309931-A Rev 01
- *Cornerstone Cable Provisioning System 2000 v 1.1.1 Installation Guide*, 309928-A Rev 01
- *Cornerstone Cable Provisioning System 2000 v 1.1.1 Troubleshooting Guide*, 309930-A Rev 01

- *Cornerstone Cable Provisioning System 2000 v 1.1.1 Release Notes, 309929-A Rev 01*

Getting help

Documentation, customer service, and support are available from your account representative.

About the CMTS 1500

The CMTS 1500 provides broadband (cable) companies with a DOCSIS/EuroDOCSIS-based, scalable, and interoperable headend cable access solution. New features support high-speed services such as QoS (Quality of Service) and IP telephony.

New features supported by version 4.2 software on the CMTS 1500 hardware platform include:

- Redundant Ethernet port with auto-switchover
- Redundant eighth upstream receiver
- Full ingress avoidance via spectrum analyzer
- SNMP v3 support/Co-existence
- Loss of communications alarms
- BPI+ support
- Enhanced Forwarding Database (FDB)
- Provisionable age-out interval for CMs that have ranged but not registered
- Provisionable age-out interval for CMs that have de-registered
- Mode B Forwarding
- Mechanism for Preventing Address Resolution Protocol (ARP) Spoofing
- Funnel Mode
- Support for DOCSIS 1.1 features
- Support for C3M (Customer Controlled Cable Modem), including Subscriber Management and the Upstream Transmitter Disable function.

Upgrading the CMTS 1000

The CMTS 1000 can be upgraded to a CMTS 1100, which is functionally equivalent to a CMTS 1500. The upgraded CMTS 1100 will support version 4.x software. Information about upgrading is available from your account representative.

When this document refers to “CMTS 1500,” the information applies to the CMTS 1100 (with upgraded hardware and software) as well.

Power-up Diagnostic Codes

Power-up diagnostic codes

Table 1-1 lists the error codes that may appear on the CMTS front panel while running power-on self tests. This indicates a hardware problem in the CMTS; only the upstream receiver cards are field-replaceable.

Table 1-1
Power-up diagnostic codes

Error code	Failed hardware
1	Flash
2	Process
3	DRAM
4	PCI
5	DEC21143
6	PLX
7	BCM3210
8	BCM3033
9	BCM3137
10	FPGA
11	LCD
12	Upstream receiver card
13	QoS accelerator card)
14	Downstream processor Card
15	Processor upgrade card

Event logs

The CMTS supports a primary Event Log server and up to two secondary Event Log servers. The IP addresses for these event log servers are defined via the CLI, SNMP Manager, or a provisioning server.

The event logs are used to track events occurring via the CMTS and cable modems. As an option, the events can be displayed as part of the CLI output. Event logs can be checked to see if certain events such as ARP spoofing by subscriber CPE equipment occurs. Furthermore, the event logs show if CMTS resets occur due to specific events, or if the resets are triggered by the watchdog timer or normal power-off.

DOCSIS 1.1 Standard BPI Events

Standard BPI Events

Table 2-1 lists and describes the DOCSIS 1.1 standard BPI events.

Table 2-1
DOCSIS standard BPI events

Event ID	Event Text Message	Event Definition	*Priority
66010100	Missing BP configuration setting TLV type: %d.	Missing BP configuration setting TLV type. Refer to Baseline Privacy Plus Interface Specification SP-BPI+-I07-010829 Appendix A.1.1.1	Notice
66010200	Invalid BP Configuration Setting Value: %d for Type: %d,	Invalid BP Configuration Setting Value Refer to Baseline Privacy Plus Interface Specification SP-BPI+-I07-010829 Appendix A.1.1.1	Notice
66030102	Auth Reject - No Information, -MAC addr: %s	Auth Reject - No Information Refer to OSS-N-00108 Specification Appendix F	Error
66030103	Auth Reject - Unauthorized CM -MAC addr: %s	Auth Reject - Unauthorized CM Refer to OSS-N-00108 Specification Appendix F	Error
66030104	Auth Reject - Unauthorized_said, -MAC addr: %s	Auth Reject - Unauthorized SAID Refer to OSS-N-00108 Specification Appendix F	Error
66030108	Auth Reject - Permanent Authorization Failure -MAC addr: %s	Auth Reject - Permanent Authorization Failure Refer to OSS-N-00108 Specification Appendix F	Error
66030109	Auth Reject - Time of Day not acquired -MAC addr: %s	Auth Reject - Time of Day not acquired Refer to OSS-N-00108 Specification Appendix F	Error
66030111	CM Certificate Error -MAC addr: %s	CM Certificate Error Refer to OSS-N-00108 Specification Appendix F	Error

2-2 DOCSIS 1.1 Standard BPI Events

Table 2-1 (continued)
DOCSIS standard BPI events

Event ID	Event Text Message	Event Definition	*Priority
66030202	Auth Invalid - No Information -MAC addr: %s	Auth Invalid - No Information Refer to OSS-N-00108 Specification Appendix F	Error
66030203	Auth Invalid - Unauthorized CM -MAC addr: %s	Auth Invalid - Unauthorized CM Refer to OSS-N-00108 Specification Appendix F	Error
66030205	Auth Invalid - Unsolicited -MAC addr: %s	Auth Invalid - Unsolicited Refer to OSS-N-00108 Specification Appendix F	Error
66030206	Auth Invalid - Invalid Key Sequence Number -MAC addr: %s	Auth Invalid - Invalid Key Sequence Number Refer to OSS-N-00108 Specification Appendix F	Error
66030207	Auth Invalid - Message (Key Request) Authentication Failure -MAC addr: %s	Auth Invalid - Message (Key Request) Authentication Failure Refer to OSS-N-00108 Specification Appendix F	Error
66030300	Unsupported Crypto Suite -MAC addr: %s	Unsupported Crypto Suite Refer to OSS-N-00108 Specification Appendix F	Error
66050102	Key Reject - No Information -MAC addr: %s	Key Reject - No Information Refer to OSS-N-00108 Specification Appendix F	Error
66050103	Key Reject - Unauthorized SAID -MAC addr: %s	Key Reject - Unauthorized SAID Refer to OSS-N-00108 Specification Appendix F	Error
66050203	TEK Invalid - No Information -MAC addr: %s	TEK Invalid - No Information Refer to OSS-N-00108 Specification Appendix F	Error
66050206	TEK Invalid - Invalid Key Sequence Number -MAC addr: %s	TEK Invalid - Invalid Key Sequence Number Refer to OSS-N-00108 Specification Appendix F	Error
<p>* emergency—fatal error, cannot recover; alert—a condition that should be corrected immediately; critical—critical condition such as NVRAM is full; error—non-fatal error, may or may not require action; warning—warning message; notice—condition that is not error connected but may require special handling; information—information message, no action required; debug — internal debug information</p>			

DOCSIS 1.1 Dynamic Service Acknowledgement

DOCSIS 1.1 Dynamic service acknowledgement

Table 3-1 lists and describes the DOCSIS 1.1 dynamic service acknowledgement events.

Table 3-1
Dynamic service acknowledgement events

Event ID	Event Text Message	Event Definition	*Priority
66060200	Unsupported Crypto Suite -MAC addr: %s	Unsupported Crypto Suite	Error
66060509	Map Reject - Not Authorized for Requested Downstream Traffic Flow (EC=7) -MAC addr: %s	Map Reject - Not Authorized for Requested Downstream Traffic Flow (EC=7)	Error
66060510	Map Reject - Downstream Traffic Flow Not Mapped to BPI= SAID (EC=8) -MAC addr: %s	Map Reject - Downstream Traffic Flow Not Mapped to BPI= SAID (EC=8)	Error
66060600	Mapped to Existing SAID -MAC addr: %s	Mapped to Existing SAID	Error
66060700	Mapped to New SAID -MAC addr: %s	Mapped to New SAID	Error
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning —warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

DOCSIS 1.1 Standard Registration Events

DOCSIS 1.1 standard registration events

Table 4-1 lists and describes the DOCSIS 1.1 standard registration events.

Table 4-1
DOCSIS 1.1 standard registration events

Event ID	Event Text Message	Event Definition	*Priority
73000400	Service unavailable - Other -MAC addr: %s.	Service unavailable - Other	Warning
73000401	Service unavailable - Unrecognized configuration setting -MAC addr: %s.	Service unavailable - Unrecognized configuration setting	Warning
73000402	Service unavailable - Temporarily unavailable -MAC addr: %s.	Service unavailable - Temporarily unavailable	Warning
73000403	Service unavailable -Permanent -MAC addr: %s.	Service unavailable - Permanent	Warning
73000500	Registration rejected authentication failure: CMTS MIC invalid -MAC addr: %s.	Registration rejected authentication failure: CMTS MIC invalid	Warning
73010100	REG REQ has Invalid MAC header -MAC addr: %s.	REG REQ has Invalid MAC header	Warning
73010200	REG REQ has Invalid SID or not in use -MAC addr: %s.	REG REQ has Invalid SID or not in use	Warning
73010400	REG REQ missed Required TLV's -MAC addr: %s.	REG REQ missed Required TLV's	Warning
73010500	Bad DS FREQ - Format Invalid -MAC addr: %s.	Bad DS FREQ - Format Invalid	Warning
73010501	Bad DS FREQ - Not in use -MAC addr: %s.	Bad DS FREQ - Not in use	Warning
73010502	Bad DS FREQ - Not Multiple of 62500 Hz -MAC addr: %s.	Bad DS FREQ - Not Multiple of 62500 Hz	Warning
73010600	Bad US CH - Invalid or Unassigned -MAC addr: %s.	Bad US CH - Invalid or Unassigned	Warning

4-2 DOCSIS 1.1 Standard Registration Events

Table 4-1 (continued)
DOCSIS 1.1 standard registration events

Event ID	Event Text Message	Event Definition	*Priority
73010601	Bad US CH - Change followed with (RE-) Registration REQ -MAC addr: %s.	Bad US CH - Change followed with (RE-) Registration REQ	Warning
73010700	Bad US CH - Overload -MAC addr: %s.	Bad US CH - Overload	Warning
73010800	Network Access has Invalid Parameter -MAC addr: %s.	Network Access has Invalid Parameter	Warning
73010900	Bad Class of Service - Invalid Configuration -MAC addr: %s.	Bad Class of Service - Invalid Configuration	Warning
73011000	Bad Class of Service - Unsupported class -MAC addr: %s.	Bad Class of Service - Unsupported class	Warning
73011100	Bad Class of Service - Invalid class ID or out of range -MAC addr: %s.	Bad Class of Service - Invalid class ID or out of range	Warning
73011200	Bad Max DS Bit Rate - Invalid Format -MAC addr: %s.	Bad Max DS Bit Rate - Invalid Format	Warning
73011201	Bad Max DS Bit Rate Unsupported Setting -MAC addr: %s.	Bad Max DS Bit Rate Unsupported Setting	Warning
73011300	Bad Max Us Bit Rate - Invalid Format -MAC addr: %s.	Bad Max Us Bit Rate - Invalid Format	Warning
73011301	Bad Max US Bit Rate Unsupported Setting -MAC addr: %s.	Bad Max US Bit Rate Unsupported Setting	Warning
73011400	Bad US Priority Configuration - Invalid Format -MAC addr: %s.	Bad US Priority Configuration - Invalid Format	Warning
73011401	Bad US Priority Configuration - Setting out of Range -MAC addr: %s.	Bad US Priority Configuration - Setting out of Range	Warning
73011500	Bad Guaranteed Min US CH Bit Rate Configuration setting - Invalid Format -MAC addr: %s.	Bad Guaranteed Min US CH Bit Rate Configuration setting - Invalid Format	Warning
73011501	Bad Guaranteed Min US CH Bit rate Configuration setting - Exceed Max US Bit Rate -MAC addr: %s.	Bad Guaranteed Min US CH Bit rate Configuration setting - Exceed Max US Bit Rate	Warning
73011502	Bad Guaranteed Min US CH Bit rate Configuration setting - Out of Range -MAC addr: %s.	Bad Guaranteed Min US CH Bit rate Configuration setting - Out of Range	Warning

Table 4-1 (continued)
DOCSIS 1.1 standard registration events

Event ID	Event Text Message	Event Definition	*Priority
73011600	Bad Max US CH Transmit Burst configuration setting - Invalid Format -MAC addr: %s.	Bad Max US CH Transmit Burst configuration setting - Invalid Format	Warning
73011601	Bad Max US CH Transmit Burst configuration setting - Out of Range -MAC addr: %s.	Bad Max US CH Transmit Burst configuration setting - Out of Range	Warning
73011700	Invalid Modem Capabilities configuration setting -MAC addr: %s.	Invalid Modem Capabilities configuration setting	Warning
73011800	Configuration file contains parameter with the value outside of the range -MAC addr: %s.	Configuration file contains parameter with the value outside of the range	Warning
73020100	REG REQ rejected - Unspecified reason -MAC addr: %s.	REG REQ rejected - Unspecified reason	Warning
73020101	REG REQ rejected - Unrecognized configuration setting -MAC addr: %s.	REG REQ rejected - Unrecognized configuration setting	Warning
73020102	REG REQ rejected - temporary no resource -MAC addr: %s.	REG REQ rejected - temporary no resource	Warning
73020103	REG REQ rejected - Permanent administrative -MAC addr: %s.	REG REQ rejected - Permanent administrative	Warning
73020104	REG REQ rejected - Required parameter not present %d -MAC addr: %s.	REG REQ rejected - Required parameter not present	Warning
73020105	REG REQ rejected - Header suppression setting not supported -MAC addr: %s.	REG REQ rejected - Header suppression setting not supported	Warning
73020106	REG REQ rejected - Multiple errors -MAC addr: %s.	REG REQ rejected - Multiple errors	Warning
73020107	REG REQ rejected - duplicate reference-ID or index in message -MAC addr: %s.	REG REQ rejected - duplicate reference-ID or index in message	Warning
73020108	REG REQ rejected - parameter invalid for context %d -MAC addr: %s.	REG REQ rejected - parameter invalid for context	Warning
73020109	REG REQ rejected - Authorization failure -MAC addr: %s.	REG REQ rejected - Authorization failure	Warning

4-4 DOCSIS 1.1 Standard Registration Events

Table 4-1 (continued)
DOCSIS 1.1 standard registration events

Event ID	Event Text Message	Event Definition	*Priority
73020110	REG REQ rejected - Major service flow error %d -MAC addr: %s.	REG REQ rejected - Major service flow error	Warning
73020111	REG REQ rejected - Major classifier error %d -MAC addr: %s.	REG REQ rejected - Major classifier error	Warning
73020112	REG REQ rejected - Major PHS rule error %d -MAC addr: %s.	REG REQ rejected - Major PHS rule error	Warning
73020113	REG REQ rejected - Multiple major errors -MAC addr: %s.	REG REQ rejected - Multiple major errors	Warning
73020114	REG REQ rejected - Message syntax error %s -MAC addr: %s.	REG REQ rejected - Message syntax error	Warning
73020115	REG REQ rejected - Primary service flow error %d -MAC addr: %s.	REG REQ rejected - Primary service flow error	Warning
73020116	REG REQ rejected - Message too big %d -MAC addr: %s.	REG REQ rejected - Message too big	Warning
73030100	REG aborted no REG-ACK -MAC addr: %s.	REG aborted no REG-ACK	Warning
73030200	REG ACK rejected unspecified reason -MAC addr: %s.	REG ACK rejected unspecified reason	Warning
73030300	REG ACK rejected message syntax error -MAC addr: %s.	REG ACK rejected message syntax error	Warning
82010100	No Ranging Requests received from POLLED CM (CMTS generated polls) %.12llx.	The CMTS polled a CM but did not receive a Ranging Request.	Warning
82010200	Retries exhausted for polled CM %.12llx	The CM has not been responding to polls.	Warning
82010300	Unable to Successfully Range %.12llx CM Retries Exhausted	The CM was not able to range successfully in the allotted number of attempts.	Warning
82010400	Failed to Receive Periodic RNG-REQ from modem (SID %d), timing-out SID	The CM did not send a ranging request within the allotted time.	Warning
<p>* emergency—fatal error, cannot recover; alert—a condition that should be corrected immediately; critical—critical condition such as NVRAM is full; error—non-fatal error, may or may not require action; warning—warning message; notice—condition that is not error connected but may require special handling; information—information message, no action required; debug — internal debug information</p>			

DOCSIS 1.1 Dynamic Service Events and Traps

DOCSIS 1.1 dynamic service events and traps

Table 5-1 lists and describes the DOCSIS 1.1 dynamic service events and traps.

Table 5-1
DOCSIS 1.1 dynamic service events, traps, and syslog

Event ID	Event Text Message	Event Definition	*Priority
83000100	DSA service add rejected unspecified reason, -MAC addr: %s.	DSA service add rejected unspecified reason.	Warning
83000101	DSA service add rejected unrecognized configuration setting, -MAC addr: %s.	DSA service add rejected unrecognized configuration setting.	Warning
83000102	DSA service add rejected temporary no resource, -MAC addr: %s.	DSA service add rejected temporary no resource.	Warning
83000103	DSA service add rejected permanent administrative -MAC addr: %s.	DSA service add rejected permanent administrative.	Warning
83000104	DSA service add rejected required parameter not present, -MAC addr: %s.	DSA service add rejected required parameter not present.	Warning
83000105	DSA service add rejected header suppression setting not supported, -MAC addr: %s.	DSA service add rejected header suppression setting not supported.	Warning
83000106	DSA service add rejected service flow exists, -MAC addr: %s.	DSA service add rejected service flow exists.	Warning
83000107	DSA service add rejected HMAC auth failure, -MAC addr: %s.	DSA service add rejected HMAC auth failure.	Warning
83000108	DSA service add rejected, add aborted, -MAC addr: %s.	DSA service add rejected, add aborted.	Warning

5-2 DOCSIS 1.1 Dynamic Service Events and Traps

Table 5-1 (continued)
DOCSIS 1.1 dynamic service events, traps, and syslog

Event ID	Event Text Message	Event Definition	*Priority
83000109	DSA service add rejected multiple errors, -MAC addr: %s.	DSA service add rejected multiple errors.	Warning
83000110	DSA service add rejected classifier not found, -MAC addr: %s.	DSA service add rejected classifier not found.	Warning
83000111	DSA service add rejected classifier exists, -MAC addr: %s.	DSA service add rejected classifier exists.	Warning
83000112	DSA service add rejected PHS rule not found, -MAC addr: %s.	DSA service add rejected PHS rule not found.	Warning
83000113	DSA service add rejected PHS rule exists, -MAC addr: %s.	DSA service add rejected PHS rule exists.	Warning
83000114	DSA service add rejected duplicate reference ID or index, -MAC addr: %s.	DSA service add rejected duplicate reference ID or index.	Warning
83000115	DSA service add rejected multiple upstream flow, -MAC addr: %s.	DSA service add rejected multiple upstream flow.	Warning
83000116	DSA service add rejected multiple downstream flow, -MAC addr: %s.	DSA service add rejected multiple downstream flow.	Warning
83000117	DSA service add rejected classifier for another flow, -MAC addr: %s.	DSA service add rejected classifier for another flow.	Warning
83000118	DSA service add rejected PHS rule for another flow, -MAC addr: %s.	DSA service add rejected PHS rule for another flow.	Warning
83000119	DSA service add rejected parameter invalid for context, -MAC addr: %s.	DSA service add rejected parameter invalid for context.	Warning
83000120	DSA service add rejected authorization failure, -MAC addr: %s.	DSA service add rejected authorization failure.	Warning
83000121	DSA service add rejected major service flow error, -MAC addr: %s.	DSA service add rejected major service flow error.	Warning
83000122	DSA service add rejected major classifier error, -MAC addr: %s.	DSA service add rejected major classifier error.	Warning
83000123	DSA service add rejected major PHS rule error, -MAC addr: %s.	DSA service add rejected major PHS rule error.	Warning

Table 5-1 (continued)
DOCSIS 1.1 dynamic service events, traps, and syslog

Event ID	Event Text Message	Event Definition	*Priority
83000124	DSA service add rejected multiple major errors, -MAC addr: %s.	DSA service add rejected multiple major errors.	Warning
83000125	DSA service add rejected message syntax error, -MAC addr: %s.	DSA service add rejected message syntax error.	Warning
83000126	DSA service add rejected message too big, -MAC addr: %s.	DSA service add rejected message too big.	Warning
83000127	DSA service add rejected temporary DCC, -MAC addr: %s.	DSA service add rejected temporary DCC.	Warning
83000200	DSC service change rejected unspecified reason, -MAC addr: %s.	DSC service change rejected unspecified reason.	Warning
83000201	DSC service change rejected unrecognized configuration setting, -MAC addr: %s.	DSC service change rejected unrecognized configuration.	Warning
83000202	DSC service change rejected temporary no resource, -MAC addr: %s.	DSC service change rejected temporary no resource.	Warning
83000203	DSC service change rejected permanent administrative, -MAC addr: %s.	DSC service change rejected permanent administrative.	Warning
83000204	DSC service change rejected requestor not owner of service flow, -MAC addr: %s.	DSC service change rejected requestor not owner of service flow.	Warning
83000205	DSC service change rejected service flow not found, -MAC addr: %s.	DSC service change rejected service flow not found.	Warning
83000206	DSC service change rejected required parameter not present, -MAC addr: %s.	DSC service change rejected required parameter not present.	Warning
83000207	DSC service change rejected header suppression setting not supported, -MAC addr: %s.	DSC service change rejected header suppression setting not supported.	Warning
83000208	DSC service change rejected HMAC auth failure, -MAC addr: %s.	DSC service change rejected HMAC auth failure.	Warning
83000209	DSC service change rejected multiple errors, -MAC addr: %s.	DSC service change rejected multiple errors.	Warning

5-4 DOCSIS 1.1 Dynamic Service Events and Traps

Table 5-1 (continued)
DOCSIS 1.1 dynamic service events, traps, and syslog

Event ID	Event Text Message	Event Definition	*Priority
83000210	DSC service change rejected classifier not found, -MAC addr: %s.	DSC service change rejected classifier not found.	Warning
83000211	DSC service change rejected classifier exists, -MAC addr: %s.	DSC service change rejected classifier exists.	Warning
83000212	DSC service change rejected PHS rule not found, -MAC addr: %s.	DSC service change rejected PHS rule not found.	Warning
83000213	DSC service change rejected PHS rule exists, -MAC addr: %s.	DSC service change rejected PHS rule exists.	Warning
83000214	DSC service change rejected duplicated reference ID or index, -MAC addr: %s.	DSC service change rejected duplicated reference ID or index.	Warning
83000215	DSC service change rejected multiple upstream flows, -MAC addr: %s.	DSC service change rejected multiple upstream flows.	Warning
83000216	DSC service change rejected multiple downstream flows, -MAC addr: %s.	DSC service change rejected multiple downstream flows.	Warning
83000217	DSC service change rejected classifier for another flow, -MAC addr: %s.	DSC service change rejected classifier for another flow.	Warning
83000218	DSC service change rejected PHS rule for another flow, -MAC addr: %s.	DSC service change rejected PHS rule for another flow.	Warning
83000219	DSC service change rejected invalid parameter for context, -MAC addr: %s.	DSC service change rejected invalid parameter for context.	Warning
83000220	DSC service change rejected authorization failure, -MAC addr: %s.	DSC service change rejected authorization failure.	Warning
83000221	DSC service change rejected major service flow error, -MAC addr: %s.	DSC service change rejected major service flow error.	Warning
83000222	DSC service change rejected major classifier error, -MAC addr: %s.	DSC service change rejected major classifier error.	Warning
83000223	DSC service change rejected major PHS error, -MAC addr: %s.	DSC service change rejected major PHS error.	Warning

Table 5-1 (continued)
DOCSIS 1.1 dynamic service events, traps, and syslog

Event ID	Event Text Message	Event Definition	*Priority
83000224	DSC service change rejected multiple major errors, -MAC addr: %s.	DSC service change rejected multiple major errors.	Warning
83000225	DSC service change rejected message syntax error, -MAC addr: %s.	DSC service change rejected message syntax error.	Warning
83000226	DSC service change rejected message too big, -MAC addr: %s.	DSC service change rejected message too big.	Warning
83000227	DSC service change rejected temporary DCC, -MAC addr: %s.	DSC service change rejected temporary DCC.	Warning
83000300	DSD service delete rejected unspecified reason, -MAC addr: %s.	DSD service delete rejected unspecified reason.	Warning
83000301	DSD service delete rejected requestor not owner of service flow, -MAC addr: %s.	DSD service delete rejected requestor not owner of service flow.	Warning
83000302	DSD service delete rejected service flow not found, -MAC addr: %s.	DSD service delete rejected service flow not found.	Warning
83000303	DSD service delete rejected HMAC auth failure, -MAC addr: %s.	DSD service delete rejected HMAC auth failure.	Warning
8300304	DSD service delete rejected message syntax error, -MAC addr: %s.	DSD service delete rejected message syntax error.	Warning
83010100	DSA-RSP service add response rejected invalid transaction ID, -MAC addr: %s.	DSA-RSP service add response rejected invalid transaction ID.	Warning
83010101	DSA-RSP service add aborted no RSP, -MAC addr: %s.	DSA-RSP service add aborted no RSP.	Warning
83010102	DSA-RSP service add response rejected HMAC auth failure, -MAC addr: %s.	DSA-RSP service add response rejected HMAC auth failure.	Warning
83010103	DSA-RSP service add response rejected message syntax error, -MAC addr: %s.	DSA-RSP service add response rejected message syntax error.	Warning
83010104	DSA-RSP service add response rejected unspecified reason, -MAC addr: %s.	DSA-RSP service add response rejected unspecified reason.	Warning

Table 5-1 (continued)
DOCSIS 1.1 dynamic service events, traps, and syslog

Event ID	Event Text Message	Event Definition	*Priority
83010105	DSA-RSP service add response rejected unrecognized configuration setting, -MAC addr: %s.	DSA-RSP service add response rejected unrecognized configuration setting.	Warning
83010106	DSA-RSP service add response rejected required parameter not present, -MAC addr: %s.	DSA-RSP service add response rejected required parameter not present.	Warning
83010107	DSA-RSP service add response rejected service flow exists, -MAC addr: %s.	DSA-RSP service add response rejected service flow exists.	Warning
83010108	DSA-RSP service add response rejected multiple errors, -MAC addr: %s.	DSA-RSP service add response rejected multiple errors.	Warning
83010109	DSA-RSP service add response rejected classifier exists, -MAC addr: %s.	DSA-RSP service add response rejected classifier exists.	Warning
83010110	DSA-RSP service add response rejected PHS rule exists, -MAC addr: %s.	DSA-RSP service add response rejected PHS rule exists.	Warning
83010111	DSA-RSP service add response rejected duplicate reference ID or index in message, -MAC addr: %s.	DSA-RSP service add response rejected duplicate reference ID or index in message.	Warning
83010112	DSA-RSP service add response rejected classifier for another flow, -MAC addr: %s.	DSA-RSP service add response rejected classifier for another flow.	Warning
83010113	DSA-RSP service add response rejected parameter invalid for context, -MAC addr: %s.	DSA-RSP service add response rejected parameter invalid for context.	Warning
83010114	DSA-RSP service add response rejected major service flow error, -MAC addr: %s.	DSA-RSP service add response rejected major service flow error.	Warning
83010115	DSA-RSP service add response rejected major classifier error, -MAC addr: %s.	DSA-RSP service add response rejected major classifier error.	Warning
83010116	DSA-RSP service add response rejected major PHS rule error, -MAC addr: %s.	DSA-RSP service add response rejected major PHS rule error.	Warning

Table 5-1 (continued)
DOCSIS 1.1 dynamic service events, traps, and syslog

Event ID	Event Text Message	Event Definition	*Priority
83010117	DSA-RSP service add response rejected multiple major errors, -MAC addr: %s.	DSA-RSP service add response rejected multiple major errors.	Warning
83010118	DSA-RSP service add response rejected message too big, -MAC addr: %s.	DSA-RSP service add response rejected message too big.	Warning
83010200	DSC-RSP service change response rejected invalid transaction ID, -MAC addr: %s.	DSC-RSP service change response rejected invalid transaction ID.	Warning
83010201	DSC-RSP service change aborted no RSP, -MAC addr: %s.	DSC-RSP service change aborted no RSP.	Warning
83010202	DSC-RSP service change response rejected HMAC auth failure, -MAC addr: %s.	DSC-RSP service change response rejected HMAC auth failure.	Warning
83010204	DSC-RSP service change response rejected unspecified reason, -MAC addr: %s.	DSC-RSP service change response rejected unspecified reason.	Warning
83010203	DSC-RSP service change response rejected message syntax error, -MAC addr: %s.	DSC-RSP service change response rejected message syntax error.	Warning
83010205	DSC-RSP service change response rejected unrecognized configuration setting, -MAC addr: %s.	DSC-RSP service change response rejected unrecognized configuration setting.	Warning
83010206	DSC-RSP service change response rejected required parameter not present, -MAC addr: %s.	DSC-RSP service change response rejected required parameter not present.	Warning
83010207	DSC-RSP service change response rejected multiple errors, -MAC addr: %s.	DSC-RSP service change response rejected multiple errors.	Warning
83010208	DSC-RSP service change response rejected classifier exists, -MAC addr: %s.	DSC-RSP service change response rejected classifier exists.	Warning
83010209	DSC-RSP service change response rejected PHS rule exists, -MAC addr: %s.	DSC-RSP service change response rejected PHS rule exists.	Warning
83010210	DSC-RSP service change response rejected duplicated reference ID or index, -MAC addr: %s.	DSC-RSP service change response rejected duplicated reference ID or index.	Warning

Table 5-1 (continued)
DOCSIS 1.1 dynamic service events, traps, and syslog

Event ID	Event Text Message	Event Definition	*Priority
83010211	DSC-RSP service change response rejected invalid parameter for context, -MAC addr: %s.	DSC-RSP service change response rejected invalid parameter for context.	Warning
83010212	DSC-RSP service change response rejected major classifier error, -MAC addr: %s.	DSC-RSP service change response rejected major classifier error.	Warning
83010213	DSC-RSP service change response rejected major PHS rule error, -MAC addr: %s.	DSC-RSP service change response rejected major PHS rule error.	Warning
83010214	DSC-RSP service change response rejected multiple major errors, -MAC addr; %s.	DSC-RSP service change response rejected multiple major errors.	Warning
83010215	DSC-RSP service change response rejected message too big, -MAC addr: %s.	DSC-RSP service change response rejected message too big.	Warning
83010300	DSC-RSP service delete response rejected invalid transaction ID, -MAC addr: %s.	DSC-RSP service delete response rejected invalid transaction ID.	Warning
83020100	DSA-RSP service add response ACK rejected invalid transaction ID, -MAC addr: %s.	DSA-RSP service add response ACK rejected invalid transaction ID.	Warning
83020101	DSA service add abort no ACK, -MAC addr: %s.	DSA service add abort no ACK.	Warning
83020102	DSA service add ACK rejected HMAC auth failure, -MAC addr: %s.	DSA service add ACK rejected HMAC auth failure.	Warning
83020103	DSA service add ACK rejected message syntax error, -MAC addr: %s.	DSA service add ACK rejected message syntax error.	Warning
83020200	DSC service change ACK rejected invalid transaction ID, -MAC addr: %s.	DSC service change ACK rejected invalid transaction ID.	Warning
83020201	DSC service change aborted no ACK, -MAC addr: %s.	DSC service change aborted no ACK.	Warning
83020202	DSC service change ACK rejected HMAC auth failure, -MAC addr: %s.	DSC service change ACK rejected HMAC auth failure.	Warning
83020203	DSC service change ACK rejected message syntax error, -MAC addr: %s.	DSC service change ACK rejected message syntax error.	Warning

Table 5-1 (continued)
DOCSIS 1.1 dynamic service events, traps, and syslog

Event ID	Event Text Message	Event Definition	*Priority
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning — warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

Kernel System Event Codes

Kernel system module

Table 6-1 lists and describes the event codes for the kernel system module generated by the CMTS 1500.

Table 6-1
Kernel system event codes

Event ID	Event Text Message	Event Definition	* Priority
100	System tasking failure, TID=0x%x, status=%d, extra=0x%x	Unexpected failure of Kernel services. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Emergency
101	Error sending Intertask message (QID=0x%x, TID=0x%x, status=0x%x) will retry.	System resources are back logged, CMTS is overburdened.	Debug
102	Internal kernel failure; E_CODE 0x%0.8x: %s.	Unexpected failure of Kernel services. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Emergency
103	Error sending Intertask message to QID %s from TID %s.	System resources are back logged, CMTS is overburdened.	Debug
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning —warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

Event Handler Event Codes

Event handler module

Table 7-1 lists and describes the error codes for the event handler generated by the CMTS 1500.

Table 7-1
Event handler event codes

Event ID	Event Text Message	Event Definition	*Priority
200	Unknown error.	Software error. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
201	System error, EPC: %.8x, CR: %.8x, BadVaddr: %.8x, SR: %.8x.	System error, some sort of exception. Displayed are the EPC, cause, BadVaddr, and status registers. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Emergency
202	System error, EPC: %.8x, CR: %.8x, BadVaddr: %.8x, SR: %.8x.	Software error. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Debug
203	Assertion failed, file %s, line %d.	Software error. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Emergency
204	Shutdown initiated.	Operator initiated actions.	Information
205	Event log cleared.	Operator initiated actions.	Information

7-2 Event Handler Event Codes

Table 7-1 (continued)
Event handler event codes

Event ID	Event Text Message	Event Definition	*Priority
206	Event reporting set to default values.	Operator initiated actions.	Information
207	System error, ErrorEPC: %.8x, CacheErrReg: %.8x.	System error, some sort of exception, further details for the 4700 processor, specifically the ErrorEPC and CacheError registers. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Emergency
208	Reset due to watchdog timeout.	The system was reset because the watchdog timer fired. This means the software was not operating normally. The watchdog timer should be periodically cleared to prevent this reset from occurring. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
209	Stack frame %d, at location %08x in routine starting at %08x.	Information about a system error: calling stack display, helpful for problem analysis. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Alert
210	No further stack frames available: %s.	Info about a system error: calling stack display reached the top and further info is displayed as to whether this was a normal or unexpected termination. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Alert
211	Stack frame %d, arg1: %08x, arg2: %08x, arg3: %08x, arg4: %08x.	Info about a system error: called routine arguments display, helpful for problem analysis. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Alert

Table 7-1 (continued)
Event handler event codes

Event ID	Event Text Message	Event Definition	*Priority
212	Event %08x, arg1: %08x, arg2: %08x, arg3: %08x.	Debug information for Software Engineering use.	Information
214	Null	Debug information for Software Engineering use.	Information
215	Index %08x, 1: %08x %08x, 2: %08x, %08x.	Software error. Debug information for Software Engineering use.	Error
216	3: %08x %08x, 4: %08x %08x 5: %08x %08x.	Software error. Debug information for Software Engineering use.	Error
217	6: %08x %08x, 7: %08x %08x 8: %08x %08x.	Software error. Debug information for Software Engineering use.	Error
218	Index %08x, 1: %08x %08x, 2: %08x %08x.	Software error. Debug information for Software Engineering use.	Error
219	3: %08x %08x, 4: %08x %08x 5: %08x %08x.	Software error. Debug information for Software Engineering use.	Error
220	Last system reset was due to %s.	Software error. Debug information for Software Engineering use.	Error
221	Cause\t%#010x\tException # %x [%s].	Software error. Debug information for Software Engineering use.	Error
222	1. A\t%#010x\t 2. V0\t%#010x\t 3. V1\t%#010x.	Software error. Debug information for Software Engineering use.	Error
223	4. A0\t%#010x\t 5. A1\t%#010x\t 6. A2\t%#010x.	Software error. Debug information for Software Engineering use.	Error
224	7. A3\t%#010x\t 8. T0\t%#010x\t 9. T1\t%#010x.	Software error. Debug information for Software Engineering use.	Error
225	10. T2\t%#010x\t11. T3\t%#010x\t12. T4\t%#010x.	Software error. Debug information for Software Engineering use.	Error
226	13. T5\t%#010x\t14. T6\t%#010x\t15. T7\t%#010x.	Software error. Debug information for Software Engineering use.	Error

7-4 Event Handler Event Codes

Table 7-1 (continued)
Event handler event codes

Event ID	Event Text Message	Event Definition	*Priority
227	16. S0\t%#010x\t17. S1\t%#010x\t18. S2\t%#010x.	Software error. Debug information for Software Engineering use.	Error
228	19. S3\t%#010x\t20. S4\t%#010x\t21. S5\t%#010x.	Software error. Debug information for Software Engineering use.	Error
229	22. S6\t%#010x\t23. S7\t%#010x\t24. T8\t%#010x.	Software error. Debug information for Software Engineering use.	Error
230	25. T9\t%#010x\t26. K0\t%#010x\t27. K1\t%#010x.	Software error. Debug information for Software Engineering use.	Error
231	28. GP\t%#010x\t29. SP\t%#010x\t30. FP\t%#010x.	Software error. Debug information for Software Engineering use.	Error
232	31. RA\t%#010x\t H\t%#010x\t LO\t%#010x.	Software error. Debug information for Software Engineering use.	Error
233	SR\t%#010x\t EPC\t%#010x.	Software error. Debug information for Software Engineering use.	Error
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning —warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

Registrar Module Event Codes

Registrar module

Table 8-1 lists and describes the error codes for the registrar module generated by the CMTS 1500.

Table 8-1
Registrar module event codes

Event ID	Event Text Message	Event Definition	*Priority
300	Unable to allocate %d, file %s line %d, avail %d.	Unable to allocate memory for initial ranging. Software error. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
301	Re-starting registration for modem %.1211x.	Re-starting registration for modem.	Debug
302	Unable to allocate initial service ID for modem %.1211x.	Unable to allocate initial service ID for modem. Software error. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
303	Ranging retries exceeded for modem %.1211x.	Ranging entries exceeded for modem.	Debug
304	Invalid ranging request received from modem %.1211x.	Invalid ranging request received from modem.	Debug
305	Ranging timed out for modem %.1211x.	Ranging timed out for modem.	Debug
306	Invalid registration request received from modem %.1211x.	Invalid registration request received from modem.	Debug

8-2 Registrar Module Event Codes

Table 8-1 (continued)
Registrar module event codes

Event ID	Event Text Message	Event Definition	*Priority
307	Registration request from modem %.1211x did not have IP TLV 12.	Registration request from modem did not have modem IP address TLV (12).	Information
308	Registration request from modem %.1211x did not have IP TLV 12 or 20.	Registration request from modem did not have modem IP address TLV (12) or TFTP server provisioned modem address (20) so IP address 0.0.0.0 was assigned.	Warning
309	Unable to unpack registration TLV data from modem %.1211x.	Unable to unpack the TLV data in the registration request received from modem.	Debug
310	Modem %.1211x already registered as SID 0x%0x.	Modem is already registered as another SID.	Warning
311	Registration request from modem %.1211x failed validation.	Registration request data in error, failed validation test.	Warning
312	Unable to allocate SID for modem %.1211x.	Registration request failed because no SID was available. Software error. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
313	Invalid registration TLV data from modem %.1211x.	Invalid or inconsistent registration request TLVs received from modem.	Warning
314	Registration error, modem %.1211x: %s.	Registration reports failure to register a modem.	Warning
315	Registration timed out for modem %.1211x.	Registration timed out for modem.	Warning
316	Registration error: %s.	Registration reports information.	Warning
317	REG-NACK received from modem %.1211x, confirmation code: 0d%d.	Registration reports modem sent REG-NACK.	Warning
318	Registration info: %s.	Registration reports information.	Information
319	Registration info: %s.	Registration reports information.	Debug
320	Registration rejected authentication failure: TFTP server timestamp invalid %.1211x.	Registration rejected authentication failure: TFTP server timestamp invalid.	Warning
321	Initial available memory %d.	Initial available memory.	Debug

Table 8-1 (continued)
Registrar module event codes

Event ID	Event Text Message	Event Definition	*Priority
322	Registration rejected authentication failure: TFTP Server Timestamp invalid %.12llx	Registration rejected authentication failure: TFTP Server Timestamp invalid	warning
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning —warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

Spanning Tree Event Codes

Spanning tree module

Table 9-1 lists and describes the error codes for the spanning tree module generated by the CMTS 1500.

Table 9-1
Spanning tree event codes

Event ID	Event Text Message	Event Definition	*Priority
500	Unexpected spanning tree packet format received.	External event to CMTS illegal.	Warning
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning —warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

Allocator Event Codes

Allocator module

Table 10-1 lists and describes the error codes for the allocator module generated by the CMTS 1500.

Table 10-1
Allocator event codes

Event ID	Event Text Message	Event Definition	*Priority
600	Internal inconsistency in Upstream Scheduler. Extra: %d, %d, %.8x, %.8x, %.8x.	Internal inconsistency in upstream scheduler due to CMTS malfunction. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Emergency
601	Downstream transmitter hang reported by scheduler. Extra: %d.	Downstream transmitter hang reported by scheduler. CMTS is reset to clear transmitter problem. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Emergency
603	Invalid nominal grant/polling interval %d received from SID %d IUC = %d.	Invalid nominal grant/polling interval.	Warning
604	Maximum CBR flows exhausted on channel %d (channel flows = %d, system flows = %d).	Maximum CBR flows exhausted on channel.	Warning
605	No resources to reserve maintenance IUC from SID %d.	No resources to reserve maintenance IUC.	Warning
606	Reserved event being canceled with invalid %s (0x%x) for SID %d.	Reserved event being canceled with invalid control information.	Warning

10-2 Allocator Event Codes

Table 10-1 (continued)
Allocator event codes

Event ID	Event Text Message	Event Definition	*Priority
607	Scheduled event being canceled with invalid %s (0x%x) for SID %d.	Reserved event being canceled with invalid control information.	Warning
608	Disabling SID %d that was not admitted or active (schedule = %d state = %d).	Disabling SID that was not admitted or active.	Warning
609	Disabling SID %d with schedule = %d not supported	Disabling SID with schedule not supported.	Warning
610	Disabling SID %d that was not admitted or active (schedule = %d state = %d).	Disabling SID that was not admitted or active.	Warning
611	Enabling SID %d with schedule not supported = %d not supported.	Enabling SID with schedule not supported.	Warning
612	Memory resource error while admitting service flow on channel %d.	Memory resource error while admitting service flow.	Warning
613	Service flow SID = %d (0x%x) on channel %d could not be realigned	Service flow could not be realigned.	Warning
614	Admit flow (sid = %d) denied %s.	Admit service flow denied.	Information
615	Activate flow (sid = %d) denied %s.	Activate service flow denied.	Information
616	%s is not supported.	Requested action is not supported.	Information
617	Corruption in allocator's %s (sid = %d) found.	Memory corruption found by allocator. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Emergency
618	Allocator destroyed service flow sid %d due to upstream channel change.	Allocator destroyed service flow due to upstream channel change.	Information
619	Allocator could not send message to CMTS manager to destroy sid %d.	Allocator could not send message to cmtsmgr to destroy sid.	Information

Table 10-1 (continued)
Allocator event codes

Event ID	Event Text Message	Event Definition	*Priority
620	Tried to build MAP with too many elements - %s.	Too many information elements were scheduled for a MAP. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
621	AI debug1:sid = %d, iuc = %d, event_class = %d, channel_id = %d.	Debug information for Software Engineering use.	Debug
622	AI debug2: desired_slot=%d, next_slot_occurrence=0x%x, next_map_is_effective_at=0x%x\n.	Debug information for Software Engineering use.	Debug
623	AI debug3:am->starts_at = 0x%x requested-start = 0x%x\n.	Debug information for Software Engineering use.	Debug
624	AI debug4:channel %d mapped_slots = %d\n.	Debug information for Software Engineering use.	Debug
625	AI debug5:am->duration (0x%x) < requested (0x%x) starts_at=0x%x, requested=0x%x\n.	Debug information for Software Engineering use.	Debug
626	AI debug6:SF Ehdr with active grants (%d) when UGS flow (%d) inactive \n.	Debug information for Software Engineering use.	Debug
627	AI debug7:Sid = %d (0x%x), channel = %d, active grants = %d, active.grants_per_interval = %d.	Debug information for Software Engineering use.	Debug
628	AI debug8: ch = %d, req'd = %d, iuc = %d, sid = %d (0x%x), frag = %d, remaining = %d\n.	Debug information for Software Engineering use.	Debug
629	AI debug9: invalid req/xmit policy : sid = %d (0x%x), R/T = 0x%x\n.	Debug information for Software Engineering use.	Debug
630	AI debug10:next_slot_abs = 0x%x, next_map_is_effective_at = 0x%x\n.	Debug information for Software Engineering use.	Debug
631	Change admitted flow (sid = %d) denied %s.	Change admit flow.	Information

10-4 Allocator Event Codes

Table 10-1 (continued)
Allocator event codes

Event ID	Event Text Message	Event Definition	*Priority
633	Change active flow (sid = %d) denied %s.	Service flow rejected because bandwidth is fragmented.	Information
634	Service flow rejected, cannot block conflicting bandwidth_id = %d sid = %d)\n.	Service flow rejected because conflicting bandwidth cannot be blocked.	Information
635	AI debug generic:%s (sid = %d, A = %d, B = %d)\n.	Allocator generic debug message.	Information
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning — warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

CMTS Headend Data Path Event Codes

CMTS headend data path module

Table 11-1 lists and describes the error codes for the CMTS headend data path module generated by the CMTS 1500.

Table 11-1
CMTS headend data path event codes

Event ID	Event Text Message	Event Definition	*Priority
700	%20s Initialization Mismatched Buffer Counts : Rx DES COUNT = %d, DP buffer count = %d.	Initialization mismatched buffer counts. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
701	IP %d.%d.%d.%d, moved from MAC %A to MAC %A.	IP address moved from MAC address ... to MAC address ...	Warning
702	MAC %A moved from port %d and said %d to port %d and said %d.	MAC address moved from port and said to port and said.	Warning
703	%3s address hash table resource exhausted.	Address hash table resource exhausted.	Debug
704	%3s address hash table lookup failed.	Address hash table lookup failed. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
705	Data Path received invalid %s in MAC Header = %.2x %.2x %.2x %.2x.	Data path received an invalid MAC header. External event to CMTS illegal.	Warning
706	Data Path received Extended Header (%.2x %.2x %.2x %.2x) not supported.	Data path received extended header that is not supported. External event to CMTS illegal.	Warning
707	Data Path received invalid or not supported EHDR (mac hdr = %.8x).	Data path received invalid extended header. External event to CMTS illegal.	Warning

11-2 CMTS Headend Data Path Event Codes

Table 11-1 (continued)
CMTS headend data path event codes

Event ID	Event Text Message	Event Definition	*Priority
708	MAC Address, %A, was not found when DP was informed of CM's %s.	MAC address was not found when DP was informed of CM's registration/inoperability.	Warning
709	DP MTD found null buffer address in %s tx_desc_get = 0x%x, tx_desc_put = 0x%x, tx_desc_start = 0x%x\n.	DP MTD found null buffer address in enet_tx_desc_get or mac_tx_desc_get.	Debug
710	Ehdr hdr = %.8x %.8x %.8x %.8x %.8x %.8x.	Data path received invalid extended header. External event to CMTS illegal.	Warning
711	Ehdr hdr + 28 = %.8x %.8x %.8x %.8x %.8x %.8x.	Data path received invalid extended header. External event to CMTS illegal.	Warning
712	Ehdr hdr + 56 = %.8x %.8x %.8x %.8x %.8x %.8x.	Data path received invalid extended header. External event to CMTS illegal.	Warning
713	Ehdr hdr + 84 = %.8x %.8x %.8x %.8x %.8x %.8x.	Data path received invalid extended header. External event to CMTS illegal.	Warning
714	DP MTD occurred on %s interface tx_desc_get = 0x%x.	DP MTD occurred debug message.	Warning
715	DP MTD tx_desc_put = 0x%x, tx_desc_start = 0x%x.	DP MTD occurred debug message#2.	Warning
716	DP MTD status = 0x%x, max_tick = %d, hit_count = %d.	Debug information for Software Engineering use.	Warning
717	DP DHCP Trace encountered error: invalid ethernet length = 0x%x.	DP DHCP Trace encountered error: invalid ethernet length. External event to CMTS illegal.	Debug
718	%s Rx descriptor received with FIRST + LAST not set (status = 0x%x).	CATV/Ethernet Rx descriptor received with FIRST + LAST not set.	Debug
719	RX buffer written beyond buffer (status = 0x%x).	CATV/Ethernet Rx descriptor received with FIRST + LAST not set.	Error
720	(%.8x %.8x %.8x %.8x %.8x %.8x %.8x %.8x).	Dump data.	Information
721	(%.8x %.8x %.8x %.8x %.8x %.8x %.8x %.8x).	Dump data.	Information
722	DP ENET MTD caused by %s error. %d packets stranded.	DP MTD occurred debug message#4	Warning
723	DP MTD status = 0x%x, max_tick = %d, hit_count = %d.	DP MTD occurred debug message#5	Warning

Table 11-1 (continued)
CMTS headend data path event codes

Event ID	Event Text Message	Event Definition	*Priority
724	DP CATV concatenation header packet with no prepended data.	DP CATV concatenation packet received with no prepended data. External event to CMTS illegal.	Warning
725	DP CATV packet with bad prepended data.	DP CATV packet received with bad prepended data. External event to CMTS illegal.	Warning
726	Data path resources exhausted, cannot link CPEs to CM.	Data path resources exhausted; cannot link CPEs to CM. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
727	DP FDB corruption avoided %s.	DP forwarding database corruption avoided at specified location.	Debug
728	DP received packet from channel %d.	DP CATV channel number of received packet was bad.	Error
729	CATV concatenated packet with no concatenated header.	CATV: concatenation header packet without concat bit in MAC header. External event to CMTS illegal.	Error
730	CATV concatenated packet with no prepended data.	CATV: concatenation header packet without prepended data. External event to CMTS illegal.	Error
731	DP DHCP trace encountered error %d.	DP DHCP trace encountered error: bad DHCP packet.	Debug
732	DP null buffer freed by 0x%x.	DP null buffer freeing encountered. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
733	DP buffer freed twice by 0x%x.	DP buffer freed twice encountered. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error

11-4 CMTS Headend Data Path Event Codes

Table 11-1 (continued)
CMTS headend data path event codes

Event ID	Event Text Message	Event Definition	*Priority
734	DP FDB time-to-live list: no such %s.	DP forwarding database ttl list has no such entry. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
735	%3s address hash table resource exhausted for CMs.	Address hash table resource exhausted for CMs.	Debug
736	%3s address hash table resource exhausted for non-Cms.	Address hash table resource exhausted for non-CMs.	Debug
737	ARP spoof prevented %A %d.%d.%d.%d -> %d.%d.%d.%d.	ARP spoofing IP address stolen	Warning
738	ARP spoof occurred %A %d.%d.%d.%d -> %d.%d.%d.%d.	ARP spoofing IP address stolen	Warning
739	IP %d.%d.%d.%d, not moved from %A to %A.	ARP spoofing IP address stolen	Warning
750	DP reassembled packet exceeds allocated buffer %d bytes (sid=%d).	DP reassembled packet exceeds allocated buffer.	Information
751	DP reassembled buffer too big %d bytes (sid=%d).	DP reassembled buffer too big.	Warning
752	DP embedded deconcatenated packet too big %d bytes (sid=%d).	DP embedded deconcatenated packet too big.	Warning
753	DP total defragmented packet too small %d bytes (sid=%d).	DP total defragmented packet too small.	Warning
754	DP defragmented deconcatenated packet error (sid=%d).	DP defragmented deconcatenated packet error.	Warning
<p>* emergency—fatal error, cannot recover; alert—a condition that should be corrected immediately; critical—critical condition such as NVRAM is full; error—non-fatal error, may or may not require action; warning—warning message; notice—condition that is not error connected but may require special handling; information—information message, no action required; debug — internal debug information</p>			

System Manager Events

System manager module

Table 12-1 lists and describes the error codes for the system manager module generated by the CMTS 1500.

Table 12-1
System manager event codes

Event ID	Event Text Message	Event Definition	*Priority
800	System Manager reports fatal error: %s. Contact Customer Support.	System Manager fatal error is reported. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Emergency
801	System Manager reports debug information: %s.	System Manager debug information is reported.	Debug
802	SM_malloc () failure, size = %x, status = %d.	System Manager reports: SM_malloc() memory allocation failed. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
803	SM_free () failure, address = %x.	System Manager reports: SM_free() memory release failed. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
804	Restart, system software build time: %d.	System Manager reports: Restart.	Information
805	Device temperature exceeded threshold of %d degrees celsius.	Device Temperature Exceeded Specified Temperature Threshold.	Warning

12-2 System Manager Events

Table 12-1 (continued)
System manager event codes

Event ID	Event Text Message	Event Definition	*Priority
806	CPU speed detected to be: %d\n.	CPU speed detected to be: (speed in Hz).	Information
807	Time server not specified in DHCP offer.	Time server not specified in DHCP offer.	Warning
808	Time server specified in DHCP offer.	Time server specified in DHCP offer.	Information
809	Time server contacted.	Time server contacted.	Information
810	Time server not contacted.	Time server not contacted.	Warning
811	Bad trap type (%d).	A trap was requested specifying an unknown trap type. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
812	Error creating trap pkt for trap type (%d).	Error creating trap packet for a particular trap type. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
813	SNMP provisioning error, object OID = %s.	System Manager reports: Error processing a provisioned SNMP object	Information
814	DHCP offer from %d.%d.%d.%d ignored; missing yiaddr, siaddr, or filename.	A DHCP offer was received which is unacceptable because it lacks either yiaddr, siaddr, or filename. The filename is always needed at the CM; it appears at the CMTS only if TFTP provisioning is required.	Warning
815	DHCP offer from %d.%d.%d.%d ignored; missing required field tag = %d.	A DHCP offer was received which is unacceptable because it lacks an option required by the device. The tag is from RFC2132.	Warning
816	DHCP offer from %d.%d.%d.%d missing default gateway.	A DHCP offer was received which lacks a gateway address.	Warning
817	ICMP error received on time server query to %d.%d.%d.%d.	An ICMP message (probably destination unreachable) was received when attempting to query the time server.	Warning

Table 12-1 (continued)
System manager event codes

Event ID	Event Text Message	Event Definition	*Priority
819	SNMP provisioning error: %s.	System Manager reports: Error processing a provisioned SNMP object. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
820	System Manager reports information.	System Manager reports information.	Information
821	TFTP provisioning file %s is too large.	TFTP get of Provisioning file failed because the file size received exceeds the receive buffer size. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
822	DHCP: NAK from server %d.%d.%d.%d.	DHCP received a NAK from the server and the offer is rejected.	Information
823	DHCP: Incomplete offer from %d.%d.%d.%d ignored.	The DHCP offer from the specified server does not have all required fields and is being ignored. A previous log entry will have the specific error describing which entry was missing.	Information
824	DHCP: No valid offer received.	DHCP discover received no offers or offers that were silently ignored.	Warning
825	DHCP: Declined offer from %d.%d.%d.%d, duplicate IP.	DHCP offer declined because it contained an IP address that is in use by another station.	Information
826	No IP address, BOOTP Relay cannot work.	No IP address is assigned so BOOTP Relay functionality cannot work. This means that CMs behind this CMTS will not register.	Warning
827	IP address assigned, BOOTP Relay functional.	IP address is assigned so BOOTP Relay functionality can now work.	Warning
828	Old time = %04d/%02d/%02d %02d:%02d, new time = %04d/%02d/%02d %02d:%02d:%02d.	Time server contacted for sync.	Information
829	Error (%d) adding route entry for provisioned gateway %a.	Error adding route entry for provisioned gateway.	Warning
830	This %d.%d.%d.%d has no SNMP access to this CMTS.	Not an authorized NM IP address for the CMTS.	Information

12-4 System Manager Events

Table 12-1 (continued)
System manager event codes

Event ID	Event Text Message	Event Definition	*Priority
831	This %d.%d.%d.%d community <%s> has no read access.	No matching community NM read access for this CMTS.	Information
832	This %d.%d.%d.%d community <%s> has no write access.	No matching community NM write access for this CMTS.	Information
833	This %d.%d.%d.%d has no read access to the CMTS.	No authorized NM read access for the CMTS.	Information
834	This %d.%d.%d.%d has no write access to the CMTS.	No authorized NM write access for the CMTS.	Information
835	This %d.%d.%d.%d has no ethernet interface read access to this CMTS.	No authorized ethernet interface NM read access to this CMTS.	Information
836	This %d.%d.%d.%d has no cable interface read access to this CMTS.	No authorized cable interface NM read access to this CMTS.	Information
837	This %d.%d.%d.%d has no ethernet interface write access to this CMTS.	No authorized ethernet interface NM write access to this CMTS.	Information
838	This %d.%d.%d.%d has no cable interface write access to this CMTS.	No authorized cable interface NM write access to this CMTS.	Information
839	DHCP provisioned DNS server list was invalid or corrupt--ignoring bad list List was %d.	DHCP provisioning contained a DNS server list that was invalid or due to a bad list length; the invalid list will be ignored.	Warning
840	DHCP provisioned DNS default domain name was invalid or corrupt--ignoring bad name Name length was %d.	DHCP provisioning contained a DNS default domain name that was invalid or corrupt due to a bad string length; the invalid name will be ignored.	Warning
841	System memory %xh below minimum %xh.	System memory below minimum.	Warning
850	DHCP (callback) handler received an illegal, default event Event code was %d.	The DHCP callback handler received an illegal event.	Warning
851	System Manager reports supplemental debug information: %s: %d, %s: 0x%08x, %s: %a, %s.	System Manager supplemental debug information was reported.	Debug
852	Cannot allocate memory for coex. tables during the initialization.	Cannot allocate memory for coex. tables during the initialization.	Error

Table 12-1 (continued)
System manager event codes

Event ID	Event Text Message	Event Definition	*Priority
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning — warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

PHY Operations Events

PHY operations module

Table 13-1 lists and describes the error codes for the PHY operations module generated by the CMTS 1500.

Table 13-1
PHY operations event codes

Event ID	Event Text Message	Event Definition	*Priority
1100	PHY module reports %s.	PHY module reports debug information.	Debug
1101	PHY module: Main PHY connection operational at %s.	PHY module reports Main PHY connection operational.	Information
1102	PHY module: Aux PHY connection operational at %s.	PHY module reports Aux PHY connection operational.	Information
1103	PHY module: Main PHY connection link lost.	PHY module reports Main PHY link lost.	Information
1104	PHY module: Aux PHY connection link lost.	PHY module reports Aux PHY link lost.	Information
1105	PHY module: Main PHY ping polling of %s failed, switching to Aux.	PHY module reports Main ping polling failed.	Information
1106	PHY module: Aux PHY ping polling of %s failed, switching to Main.	PHY module reports Aux ping polling failed.	Information
1107	PHY module: Main PHY administrator state changed to %s.	PHY module reports Main PHY administrator state changed.	Information
1108	PHY module: Aux PHY administrator state changed to %s.	PHY module reports Aux PHY administrator state changed.	Information
1109	PHY module: Main PHY sending Topology Change Notice (TCN)>	PHY module reports Main PHY sending topology change notice.	Information
1110	PHY module: Aux PHY sending Topology Change Notice (TCN).	PHY module reports Aux PHY sending topology change notice.	Information

13-2 PHY Operations Events

Table 13-1 (continued)
PHY operations event codes

Event ID	Event Text Message	Event Definition	*Priority
1111	PHY module: DHCP failure on Main PHY connection.	PHY module reports Main PHY connection.	Information
1112	PHY module: DHCP failure on Aux PHY connection.	PHY module reports Aux PHY DHCP failure.	Information
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning —warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

Filter Module Events

Filter module

Table 14-1 lists and describes the error codes for the filter module generated by the CMTS 1500.

Table 14-1
Filter event codes

Event ID	Event Text Message	Event Definition	*Priority
1200	Filter module reports %s.	Filter module reports debug information. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Debug
1201	Filter module: Invalid flash value read, parameter %s.	Filter module reports an invalid flash value was read. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
1202	Error attempting to remove IP table entry which is not active.	Error attempting to remove IP table entry which is not active. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
1203	Error attempting to remove LLC table entry which is not active.	Error attempting to remove LLC table entry which is not active. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error

14-2 Filter Module Events

Table 14-1 (continued)
Filter event codes

Event ID	Event Text Message	Event Definition	*Priority
1204	Filter module reports %s.	Filter module reports information. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Information
1205	IGMP reports multicast filter table full.	IGMP reports multicast filter table full. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning —warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

System Upgrade Events

System upgrade module

Table 15-1 lists and describes the error codes for the system upgrade event module generated by the CMTS 1500.

Table 15-1
System upgrade event codes

Event ID	Event Text Message	Event Definition	*Priority
1300	Software upgrade reports %s.	Software upgrade reports information.	Information
1301	Software upgrade failed %s.	Software upgrade failure notice. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
1302	Software upgrade failed %s.	Software upgrade failure occurred resulting in a reset. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Emergency
1303	Software upgrade success: %s.	Software upgrade succeeded.	Information
1304	Software upgrade canceled, %s.	Software upgrade was canceled.	Information
1305	Software upgrade canceled by new request.	Software upgrade was canceled by a new request.	Information
1306	Software upgrade flash programming failure, %s.	Software upgrade flash programming failure. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error

15-2 System Upgrade Events

Table 15-1 (continued)
System upgrade event codes

Event ID	Event Text Message	Event Definition	*Priority
1307	Software upgrade flash programming failure, %s.	Software upgrade flash programming failure resulting in a reset. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Emergency
1308	Software upgrade flash erase failure, %s.	Software upgrade flash erase failure.	Error
1309	Software upgrade flash erase failure resulting in a reset.	Software upgrade flash erase failure resulting in a reset. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Emergency
1310	Software upgrade: unknown flash id.	Software upgrade; unknown flash. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Emergency
1311	Software upgrade: Invalid flash runtime info block.	Software upgrade; invalid flash runtime info block. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
1312	Software upgrade failed, TFTP error = %d, packet_count = %d, abort upgrade.	Software upgrade failed, tftp error reset.	Information
1313	Software upgrade failed, TFTP error = %d, packet_count = %d, reset to retry.	Software upgrade failed due to a TFTP error, system is reset to retry.	Information
1314	Software upgrade NU_Alloc_Memory failure, error = %d.	Software upgrade NU_Alloc_Memory failure. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error

Table 15-1 (continued)
System upgrade event codes

Event ID	Event Text Message	Event Definition	*Priority
1315	Software upgrade error: %s.	Software upgrade error reported. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
1316	Product code does not match the system being upgraded.	The product code in the software upgrade file is not correct for the system being upgraded. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
1317	Software upgrade: Check that file is available and server is correct.	There was a TFTP error during the software upgrade. Possible errors are that the upgrade file does not exist, the docsDevSwServer address is not correct, or the transfer failed in the middle of the transfer. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
<p>* emergency—fatal error, cannot recover; alert—a condition that should be corrected immediately; critical—critical condition such as NVRAM is full; error—non-fatal error, may or may not require action; warning—warning message; notice—condition that is not error connected but may require special handling; information—information message, no action required; debug—internal debug information</p>			

Command Line Interface (CLI) Events

Command line interface (CLI) Module

Table 16-1 lists and describes the error codes for the CLI module generated by the CMTS 1500.

Table 16-1
CLI event codes

Event ID	Event Text Message	Event Definition	*Priority
1500	Console interface failure (%d, %d, %d).	Console interface failure. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Emergency
1505	Console interface command: %s.	Console interface command.	Information
1506	User '%s' on console set MIB item: %s.	Console interface user snmp set.	Information
1507	User '%s' from remote session %s set MIB item: %s.	Remote session interface user snmp set.	Information
1508	NU_Allocate_Memory failure in MIB search, status = %d.	Software error. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
1509	NU_Deallocate_Memory failure in MIB search, status = %d.	Software error. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
1510	Console interface user '%s' logged in from '%s'.	Console interface user logged in.	Information
1511	Remote session 1 user '%s' logged in from '%s'.	Remote session 1 user is logged in.	Information

16-2 Command Line Interface (CLI) Events

Table 16-1 (continued)
CLI event codes

Event ID	Event Text Message	Event Definition	*Priority
1512	Remote session 2 user '%s' logged in from '%s' .	Remote session 2 user is logged in.	Information
1513	Remote session 3 user '%s' logged in from '%s'.	Remote session 3 user is logged in.	Information
1514	Remote session 4 user '%s' logged in from '%s'.	Remote session 4 user is logged in.	Information
1515	Remote session 5 user '%s' logged in from '%s'.	Remote session 5 user is logged in.	Information
1516	SSH session %d user '%s' logged in from '%s'	SSH session is logged in.	Information
1520	Console interface user '%s' from '%s' logged out.	Console interface user logged out.	Information
1521	Remote session 1 user '%s' from '%s' logged out.	Remote session 1 user logged out.	Information
1522	Remote session 2 user '%s' from '%s' logged out.	Remote session 2 user logged out.	Information
1523	Remote session 3 user '%s' from '%s' logged out.	Remote session 3 user logged out.	Information
1524	Remote session 4 user '%s' from '%s' logged out.	Remote session 4 user logged out.	Information
1525	Remote session 5 user '%s' from '%s' logged out.	Remote session 5 user logged out.	Information
1526	SSH session %d user '%s' logged out from '%s'	SSH session is logged out.	Information
1530	Console interface user '%s' login failed from '%s' .	Console interface user login fail.	Information
1531	Remote session 1 user '%s' login failed from '%s' .	Remote session 1 user login fail.	Information
1532	Remote session 2 user '%s' login failed from '%s' .	Remote session 2 login fail.	Information
1533	Remote session 3 user '%s' login failed from '%s'.	Remote session 3 login fail.	Information
1534	Remote session 4 user '%s' login failed from '%s' .	Remote session 4 login fail.	Information
1535	Remote session 5 user '%s' login failed from '%s' .	Remote session 5 login fail.	Information
1540	Console Interface user '%s' timed out.	Console interface user timed out.	Information
1541	Remote session 1 user '%s' timed out.	Remote session 1 user timed out.	Information

Table 16-1 (continued)
CLI event codes

Event ID	Event Text Message	Event Definition	*Priority
1542	Remote session 2 user '%s' timed out.	Remote session 2 user timed out.	Information
1543	Remote session 3 user '%s' timed out.	Remote session 3 user timed out.	Information
1544	Remote session 4 user '%s' timed out.	Remote session 4 user timed out.	Information
1545	Remote session 5 user '%s' timed out.	Remote session 5 user timed out.	Information
1550	Console interface timed out while login attempt as '%s' .	Console interface login attempt timed out.	Information
1551	Remote session 1 timed out while login attempt as '%s' .	Remote session 1 login attempt timed out.	Information
1552	Remote session 2 timed out while login attempt as '%s' .	Remote session 2 login attempt timed out.	Information
1553	Remote session 3 timed out while login attempt as '%s' .	Remote session 3 login attempt timed out.	Information
1554	Remote session 4 timed out while login attempt as '%s' .	Remote session 4 login attempt timed out.	Information
1555	Remote session 5 timed out while login attempt as '%s' .	Remote session 5 login attempt timed out.	Information
<p>* emergency—fatal error, cannot recover; alert—a condition that should be corrected immediately; critical—critical condition such as NVRAM is full; error—non-fatal error, may or may not require action; warning—warning message; notice—condition that is not error connected but may require special handling; information—information message, no action required; debug — internal debug information</p>			

Broadcom Driver Events

Broadcom driver event module

Table 17-1 lists and describes the error codes for the Broadcom driver module generated by the CMTS 1500.

Table 17-1
Broadcom driver event codes

Event ID	Event Text Message	Event Definition	*Priority
1600	Could not initialize network interface parts.	Could not initialize network interface parts. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
1602	The receiver for channel %d has an improper hardware revision.	The receiver has an improper hardware revision. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning — warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

SNMP Initiated Reset Events

SNMP initiated reset event module

Table 18-1 lists and describes the error codes for the SNMP initiated reset event module using the docsDevResetNow MIB variable generated by the CMTS 1500.

Table 18-1
SNMP initiated reset event codes

Event ID	Event Text Message	Event Definition	*Priority
1800	System reset by docsDevResetNow MIB var.	The system has been reset by the docsDevResetNow MIB variable.	Warning
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning —warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

Galileo Events

Galileo event module

Table 19-1 lists and describes the error codes for the Galileo event module generated by the CMTS 1500.

Table 19-1
Galileo event codes

Event ID	Event Text Message	Event Definition	*Priority
1900	PCI parity error detected, cause register 0x%x.	PCI parity error detected. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Emergency
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning —warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug —internal debug information			

CMTS Baseline Privacy Event Codes

CMTS baseline privacy module

Table 20-1 lists and describes the error codes for the CMTS baseline privacy module generated by the CMTS 1500.

Table 20-1
CMTS baseline privacy event codes

Event ID	Event Text Message	Event Definition	*Priority
2100	Failure encrypting authorization key	If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
2101	Failure initializing hardware	If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
2102	Failure writing traffic key to hardware	If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
2103	Failure writing initialization vector to hardware	If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
2104	BPKM SA MAC does not match CM MAC (SA=%s CM MAC=%s)	The source MAC address of a BP Key management message is not equivalent to the MAC address passed in the message's CM identification field.	Error
2105	New public key in BPKM Auth Req (SA=%s CM MAC=%s)	A CM has made a BP Authorization request but a CM with the same MAC address, and different public key, is already authorized.	Warning

20-2 CMTS Baseline Privacy Event Codes

Table 20-1 (continued)
CMTS baseline privacy event codes

Event ID	Event Text Message	Event Definition	*Priority
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning — warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

CMTS Cruiser Driver Event Codes

CM cruiser driver module

Table 21-1 lists and describes the error codes for the CMTS Cruiser driver module generated by the CMTS 1500.

Table 21-1
CMTS cruiser driver event codes

Event ID	Event Text Message	Event Definition	*Priority
2200	CMTS hardware initialization failure: FPGA not programmed	The CMTS hardware could not be initialized due to an FPGA programming failure. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
<p>* emergency—fatal error, cannot recover; alert—a condition that should be corrected immediately; critical—critical condition such as NVRAM is full; error—non-fatal error, may or may not require action; warning—warning message; notice—condition that is not error connected but may require special handling; information—information message, no action required; debug — internal debug information</p>			

Manufacturing Event Codes

Manufacturing module

Table 22-1 lists and describes the error codes for the CMTS manufacturing module generated by the CMTS 1500.

Table 22-1
Manufacturing event codes

Event ID	Event Text Message	Event Definition	*Priority
2300	MFG flash module: error reading TLV type 0x%x from flash	Error reading TLV from flash. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Debug
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning —warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug —internal debug information			

UC (Sunset Up-Converter) Event Codes

UC (Sunset Up-Converter) module

Table 23-1 lists and describes the error codes for the UC (Sunset Up-Converter) module generated by the CMTS 1500.

Table 23-1
UC (Sunset Up-Converter) event codes

Event ID	Event Text Message	Event Definition	*Priority
2400	CMTS hardware initialization failure: up-converter inoperable	The CMTS hardware could not be initialized because the up-converter was not detected. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
2401	CMTS hardware initialization failure: up-converter not calibrated	The CMTS hardware could not be initialized because the up-converter calibration data could not be found. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
2402	CMTS hardware failure: downstream frequency could not lock	The CMTS hardware could not lock onto the downstream frequency. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error

23-2 UC (Sunset Up-Converter) Event Codes

Table 23-1 (continued)
UC (Sunset Up-Converter) event codes

Event ID	Event Text Message	Event Definition	*Priority
2403	CMTS hardware failure: up-converter %s V power supply failed	The CMTS up-converter power supply failed. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
2404	Downstream output power could not reach%d. %d dBmV	The CMTS downstream output power could not reach the desired level. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning —warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

CMTS Pacer Event Codes

CMTS pacer module

Table 24-1 lists and describes the error codes for the CMTS Pacer module generated by the CMTS 1500.

Table 24-1
CMTS Pacer event codes

Event ID	Event Text Message	Event Definition	*Priority
2500	The downstream channel configuration is incompatible with the CMTS hardware; the downstream channel is disabled	If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
2501	The upstream channel configuration for channel %d is incompatible with the CMTS hardware; the upstream channel is disabled	If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
2502	The Downstream Center Frequency has been changed to %d	If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Information
2503	The Downstream Channel Width has been changed	If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Information
2504	The Downstream Modulation Type has been changed of index %d	If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Information

24-2 CMTS Pacer Event Codes

Table 24-1 (continued)
CMTS Pacer event codes

Event ID	Event Text Message	Event Definition	*Priority
2505	The Downstream Interleave has been changed to index %d	If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Information
2506	The Downstream Channel Power has been changed to %d	If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Information
2507	The Downstream FEC Annex type has been changed to %s	If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Information
2508	The Frequency Split has been changed to %s	If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Information
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning —warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

Table 25-1 lists and describes the error codes for the Testing module generated by the CMTS 1500.

Event ID	Event Text Message	Event Definition	*Priority
2600	Test being run - MAC Header	Test ID = %s, MAC Header = 0x%02x 0x%02x 0x%02x 0x%02x. Debug information for Software Engineering use.	Debug
2601	Test being run - Extended header	EHDR = 0x%02x 0x%02x 0x%02x 0x%02x 0x%02x 0x%02x 0x%02x 0x%02x 0x%02x 0x%02x 0x%02x 0x%02x 0x%02x 0x%02x 0x%02x 0x%02x. Debug information for Software Engineering use.	Debug

* **emergency**—fatal error, cannot recover; **alert**—a condition that should be corrected immediately; **critical**—critical condition such as NVRAM is full; **error**—non-fatal error, may or may not require action; **warning**—warning message; **notice**—condition that is not error connected but may require special handling; **information**—information message, no action required; **debug** — internal debug information

Ingress Avoidance Event Codes

Ingress Avoidance module

Table 26-1 lists and describes the error codes for the Ingress Avoidance module generated by the CMTS 1500.

Table 26-1
Ingress Avoidance event codes

Event ID	Event Text Message	Event Definition	*Priority
2700	Ingress avoidance feature has automatically changed frequency, modulation profile and bandwidth	Ingress Avoidance change Upstream %d, Freq %d Hz, Mod Profile %d, BW %d Hz	Information
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning —warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

CMTS Fans Event Codes

CMTS fans module

Table 27-1 lists and describes the error codes for the CMTS fans module generated by the CMTS 1500.

Table 27-1
CMTS fans event codes

Event ID	Event Text Message	Event Definition	*Priority
2800	Front fan is off	Front fan is not functioning properly or is powered down	Warning
2801	Front fan is on	Front fan is now functioning properly	Warning
2802	Middle fan is off	Middle fan is not functioning properly or is powered down	Warning
2803	Middle fan is on	Middle fan is now functioning properly	Warning
2804	Back fan is off	Back fan is not functioning properly or is powered down	Warning
2805	Back fan is on	Back fan is now functioning properly	Warning
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning —warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

CMTS Multi-Session Event Codes

CMTS multi-session module

Table 28-1 lists and describes the error codes for the CMTS multi-session module generated by the CMTS 1500.

Table 28-1
CMTS multi-session event codes

Event ID	Event Text Message	Event Definition	*Priority
3000	Telnet reports: TELNET_malloc() memory allocation failed	TELNET_malloc() failure, size _ %x, status = %d. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
3001	Telnet reports: TELNET_free() memory release failed	TELNET_free() failure, address - %x. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
3002	Telnet reports: TELNET_Init() tcb_create() failed	TELNET_Init() failure, tcb_create() failed. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
3003	Telnet reports: TELNET_Init() tn_create_listener() failed	TELNET_Init() failure, tn_create_listener () failed. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error

Table 28-1 (continued)
CMTS multi-session event codes

Event ID	Event Text Message	Event Definition	*Priority
3004	Telnet reports: TELNET_Init() tcp_start () failed	TELNET_Init() failure, tcp_start () failed with error code = %d. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning — warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

QoS Event Codes

QoS module

Table 29-1 lists and describes the error codes for the QoS module generated by the CMTS 1500.

Table 29-1
QoS event codes

Event ID	Event Text Message	Event Definition	*Priority
3100	QoS driver dropping packet - no descriptors available	QoS driver dropping packet - no descriptors available.	Warning
3101	QoS driver not running due to lack of system memory	QoS driver not running due to lack of system memory. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
3102	QoS driver dropping packet due to invalid HFID or state	QoS driver dropping packet due to invalid HFID or state. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Emergency
3103	QoS hardware missing	QoS hardware missing. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Warning
3104	The QoS timer failed to initialize correctly	The QoS timer failed to initialize correctly. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Emergency

29-2 QoS Event Codes

Table 29-1 (continued)
QoS event codes

Event ID	Event Text Message	Event Definition	*Priority
3105	Haulback reset due to excessive queue backup. QD_pktCnt = %d	The Haulback queue overflowed. Capture the event log and console output, and contact Customer Service.	Error
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning —warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

Service Flow Manager Task Event Codes

Service flow manager task module

Table 30-1 lists and describes the error codes for the service flow task manager module generated by the CMTS 1500.

Table 30-1
Service flow manager task event codes

Event ID	Event Text Message	Event Definition	Priority
3200	Service Flow Manager fatal error is reported	Service Flow Manager reports fatal error %s. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Emergency
3201	Service Flow Manager reports failure	Service Flow Manager error %s.	Warning
3202	Service Flow Manager reports information	Service Flow Manager report %s.	Information
3203	Service Flow Manager reports failure	Service Flow Mgr error %s, cref= \$d, station_id= %A.	Warning
3204	Service Flow Manager reports failure	Service Flow Manager error %d, %d.	Warning
3205	Service Flow Manager reports failure	Service Flow Mgr error, %s %d, station_id = %A.	Information
3206	Service Flow Manager reports failure	Service Flow Mgr error, %s, station_id= %A.	Warning
3207	Service Flow Manager reports failure	Service Flow Manager error, %s, %d, reason = 0x%x.	Warning
3208	Service Flow Manager reports failure	Service Flow Mgr: %s, station_id= %A.	Information
3209	Service Flow Manager reports failure	Service Flow Manager, %s, %d.	Warning

30-2 Service Flow Manager Task Event Codes

Table 30-1 (continued)
Service flow manager task event codes

Event ID	Event Text Message	Event Definition	Priority
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning — warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

Domain Name Service Event Codes

Domain name service event module

Table 31-1 lists and describes the error codes for the domain name service event module generated by the CMTS 1500.

Table 31-1
Domain name service event codes

Event ID	Event Text Message	Event Definition	*Priority
3300	DNS_malloc failed to allocate a %d byte buffer Error code was: 0x%08X	The DNS_malloc function failed to allocate a buffer. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
3301	DNS_free failed to recycle the buffer @ 0x%08X	The DNS_free function failed to de-allocate a buffer. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
<p>* emergency—fatal error, cannot recover; alert—a condition that should be corrected immediately; critical—critical condition such as NVRAM is full; error—non-fatal error, may or may not require action; warning—warning message; notice—condition that is not error connected but may require special handling; information—information message, no action required; debug — internal debug information</p>			

QP Event Codes

QP event module

Table 32-1 lists and describes the error codes for the QP event module generated by the CMTS 1500.

Table 32-1
QP event codes

Event ID	Event Text Message	Event Definition	*Priority
3400	QP module error, %s	QP module reports failure.	Warning
3401	QP module error, modem % .1211x: %s	QP module reports failure.	Warning
3402	QP module reports %s	QP module reports. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
3403	QP_malloc() failure, size = %x, status = %d	QP Module reports: QP_alloc() memory allocation failed. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
3404	QP_compare ID %d Params %d %d %d %d %d %d	QP Module reports: QP_compare failed. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning —warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

Alarms Loss of Communication Event Codes

Alarms event module

Table 33-1 lists and describes the error codes for the Alarms event module generated by the CMTS 1500.

Table 33-1
Alarms event codes

Event ID	Event Text Message	Event Definition	*Priority
3500	Alarms LOC, device %A on upstream channel %d, SET minor alarm	Alarms Loss of Comm to CM, set minor alarm set	Information
3501	Alarms LOC, device %A on upstream channel %d, CLEAR minor alarm	Alarms Loss of Comm to CM restored, clear minor alarm	Information
3502	Alarms LOC, threshold exceeded on upstream channel %d, SET major alarm	Alarms Loss of Comm to CM exceeded threshold, set major alarm	Information
3503	Alarms LOC, on upstream channel %d, CLEAR major alarm	Alarms Loss of Comm to CM fails below threshold, clear major alarm	Information
3504	Alarms LOC, unable to auto-provision device %A	Alarms unable to auto-provision Loss of Comm to CM	Information
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning — warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

Soft Watchdog Timer Event Codes

Soft watchdog timer event module

Table 34-1 lists and describes the error codes for the soft watchdog timer event module generated by the CMTS 1500.

Table 34-1
Soft watchdog timer event codes

Event ID	Event Text Message	Event Definition	*Priority
3600	Soft watchdog: back trace of interrupted task: TID = %d: PC = 0x%X	Soft watchdog: back trace of interrupted task. Debug information for Software Engineering use.	Information
3601	Soft watchdog: System going down	Soft watchdog: System going down. Debug information for Software Engineering use.	Information
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning — warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

Multi-usage Upstream Event Codes

Multi-usage upstream event module

Table 35-1 lists and describes the error codes for the multi-usage upstream event module generated by the CMTS 1500.

Table 35-1
Multi-usage upstream event codes

Event ID	Event Text Message	Event Definition	Priority
3700	Multi Usage Upstream Admin Changed - %s	The multi-usage upstream admin has changed. The Nth upstream is no longer being used as standard upstream.	Information
3701	Multi Usage Upstream Oper Status has changed. Upstream %d has failed over.	The multi-usage upstream admin has changed. The Nth upstream is no longer being used as standard upstream.	Information
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning — warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

Secure Shell V1 (SSH1) Event Codes

Secure shell V1 (SSH1) event module

Table 36-1 lists and describes the error codes for the secure shell V1 (SSH1) event module generated by the CMTS 1500.

Table 36-1
Secure shell V1 (SSH1) event codes

Event ID	Event Text Message	Event Definition	* Priority
4100	The ssh_malloc function failed to allocate a buffer	ssh_malloc failed to allocate a %d byte buffer Error code was: 0x%08X. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4101	The ssh_free function failed to de-allocate a buffer	ssh_free failed to recycle the buffer @ 0x%08X. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4102	SSH1 reports: SSH1_Server_Init () tcb_create() failed	SSH1 reports: SSH1_Server_Init () tcb_creat() failed. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4103	SSH1 reports: SSH1_Server_Init() ssh1_create_listener() failed	SSH1 reports: SSH1_Server_Init() ssh1_create_listener() failed. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error

Table 36-1 (continued)
Secure shell V1 (SSH1) event codes

Event ID	Event Text Message	Event Definition	* Priority
4104	SSH1reports: SSH1_Server_Init() tcp_start() failed	SSH1reports: SSH1_Server_Init() tcp_start() failed with error code =%d. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4105	SSH1 reports: Que full sending svr initi in NET_Task()	NET_Task() failure, queue full sending svr init to SM, queue status was %d. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4110	SSH1reports: buffer_bet_string() got bad string length	Received packet with bad string length %d.	Warning
4111	SSH reports: buffer_get() operation overflows buffer limits	buffer_get() trying to get more bytes (%d) than buffer describes (%d - %d). If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4112	SSH1 reports: buffer_consume() operation overflows buffer limits	buffer_consume() trying to consume more bytes (%d) than buffer describes (%d - %d). If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4113	SSH1 reports: buffer consume_end() operation overflows buffer limits	buffer_consume_end(s) trying to consume more bytes (%d) than buffer describes (%d - %d). If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error

Table 36-1 (continued)
Secure shell V1 (SSH1) event codes

Event ID	Event Text Message	Event Definition	* Priority
4115	SSH1 reports: cipher_name(): bad cipher number	cipher_name(): bad cipher number: %d. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4116	SSH1 reports: cipher_number() Arcfour cipher disabled., using blowfish instead	cipher_number(): Arcfour cipher disabled, using blowfish cipher instead. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Information
4117	SSH1 reports: SSH1 reports: cipher_set_key() : Key length insufficient for IDEA	cipher_set_key() : Key length %d is insufficient for IDEA. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4118	SSH1 reports: cipher_set_key(): Key length insufficient for DES	cipher_set_key(): Key length %d is insufficient for DES. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4119	SSH1 reports: cipher_set_key(): Key length insufficient for 3DES	cipher_set_key(): Key length insufficient for 3DES. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4120	SSH1 reports: cipher_set_key(): Key length insufficient for blowfish	cipher_set_key(): Key length insufficient for blowfish. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error

Table 36-1 (continued)
Secure shell V1 (SSH1) event codes

Event ID	Event Text Message	Event Definition	* Priority
4121	SSH1 reports: Unknown cipher type	Unknown cipher type %d. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4125	SSH1 reports: Packet too large	SSH1 Packet Too Large, size - %d. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4130	SSH1 reports: ssh1_bsafe_init() : Error initializing BSAFE and random number data	SSH1 BSAFE Init error: BSAFE error # %d calling %s. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4131	SSH1 reports: ssh1_decrypt_data(): Error decrypting RSA-encoded data	SSH1 RSA data decryption error: BSAF error # %d calling %s. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4132	SSH1 reports: creat_check_bytes(): Error generating random check bytes	SSH! Create Check Bytes error: BSAFE error # %d calling %s. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4133	SSH1 reports: ssh1_generate_rsa_key(): Error generating RSA key	SSH! RSA Key Generation error: BSAFE error # %d calling %s. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error

Table 36-1 (continued)
Secure shell V1 (SSH1) event codes

Event ID	Event Text Message	Event Definition	* Priority
4134	SSH1 reports: get_rsa_key_data() : Error getting RSA key data	SSH! Get RSA Key Data error : BSAFE error #%%d calling %s. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4135	SSH1 reports: ssh1_check_emulation(): Error Calling	SSH1 Check Emulation error: Unexpected return value from check_emulation. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4146	SSH1 reports: ssh1_rcv_sesskey(): Unexpected message type	SSH1 Receive Session Key error: Unexpected message type, code %d. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4147	SSH1 reports: ssh1_rcv_sesskey() : IP Spoofing check bytes do not match	SSH1 Receive Session Key error: IP Spoofing check bytes do not match. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4148	SSH1 reports: ssh1_rcv_sesskey(): Session key has invalid length	SSH1 Receive Session Key error: Session key has invalid length. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4149	SSH1 reports: ssh1_rcv_sesskey(s): Encoded Session key is too big	SSH1 Receive Session Key error: Encoded Session key is %d bytes larger than local largest private key. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error

Table 36-1 (continued)
Secure shell V1 (SSH1) event codes

Event ID	Event Text Message	Event Definition	* Priority
4150	SSH1 reports: ssh1_rcv_sesskey(): Could not allocate Encoded copy buffer	SSH! Receive Session Key error: Could not allocate Encoded copy buffer. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4152	SSH1 reports: parse_packet_prefix(): Packet length greater than parsing buffer	SSH1 Parse Packet Prefix error: Packet length greater than parsing buffer! %u. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4153	SSH1 reports:SSH1 reports: parse_packet_prefix() : Bad packet length	SSH1 Parse Packet Prefix error: Bad packet length %u. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4154	SSH1 reports: parse_packet_prefix(): Corrupted check bytes on input	SSH1 Parse Packet Prefix error: Corrupted check bytes on input. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4155	SSH1 reports: parse_packet_prefix(): Client disconnected with reason text	SSH1 Parse Packet Prefix msg: Client disconnected: %.900s\n.	Information
4156	SSH1 reports: parse_packet_prefix(): Debug message from Remote	SSH1 Parse Packet Prefix msg: Debug message from Remote: %.900s\n	Information
4158	SSH1 reports: ssh1_rcv_username(): Unexpected message type	SSH1 Recv Username: Unexpected message type, code %d. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error

Table 36-1 (continued)
Secure shell V1 (SSH1) event codes

Event ID	Event Text Message	Event Definition	* Priority
4159	SSH1 reports: ssh1_rcv_encrypted_msg(): Unexpected message type	SSH1 Recv Encrypted Msg: Unexpected message type, code %d. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4162	SSH1 reports:ssh1_srvr_closed_upcall(): TCB closed	SSH1 Server_Closed Upcall: TCB = 0X%08x, REASON = %d. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4164	SSH1 reports: ssh1_open_upcall(): Could not allocate connection struct for TCB	SSH1 Open Upcall: Could not allocate connection struct for TCB = 0X%08x. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4165	SSH1 reports: ssh1_open_upcall(): Could not setup connection for TCB	SSH1 Open Upcall: Could not setup connection for TCB = 0X%08x, CNX = 0X%08x. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4166	SSH1 reports: ssh1_receive_upcall() : Illegal Connection State	SSH1 Receive UPcall: Illegal Connection State: %d - - Aborting connection. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4167	SSH1 reports: ssh1_receive_upcall(): Illegal Connection State Action	SSH1 Receive Upcall: Illegal Connection State Action: %d - - Aborting connection. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error

Table 36-1 (continued)
Secure shell V1 (SSH1) event codes

Event ID	Event Text Message	Event Definition	* Priority
4168	SSH1 reports: ssh1_receive_upcall(): ssh1_send_buffer() failed	SSH1 Receive Upcall: ssh1_send_buffer() failed. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4170	SSH1 reports: ssh1_tcp_opened():ssh1_send_buffer() failed	SSH1 Opened Upcall: ssh1_send_buffer() failed. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4172	SSH1 reports: ssh1_send_buffer(): Error calling ssh1_tcp_alloc()	SSH1 Send Buffer: Error %d calling ssh1_tcp_alloc. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
4173	SSH1 reports: ssh1_send_buffer(): Error calling ssh1_tcp_write()	SSH1 Send Buffer: Error %d calling ssh1_tcp_write. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Error
<p>* emergency—fatal error, cannot recover; alert—a condition that should be corrected immediately; critical—critical condition such as NVRAM is full; error—non-fatal error, may or may not require action; warning—warning message; notice—condition that is not error connected but may require special handling; information—information message, no action required; debug — internal debug information</p>			

Dynamic Service Event Codes

Dynamic Service event module

Table 37-1 lists and describes the error codes for the dynamic service event module generated by the CMTS 1500.

Table 37-1
Dynamic service event codes

Event ID	Event Text Message	Event Definition	* Priority
4300	SF Error SREF%d%d SFID %d%d param %d code %d, %s	Service Flow Error Encodings Refer to RFI Specification SP-RFIV1.1-107-010829 and DOCSIS Specification c.2.2.4.	Debug
4301	Class Err CREF %d/%d CID %d/%d SREF %d/%d SFID %d/%d param0 %d param1 %d	Classifier Error Encodings Refer to RFI Specification SP-RFIV1.1-107-010829 and DOCSIS Specification c.2.1.4.	Debug
4302	PHS error CREF %d/%d CID %d/%d SREF %d/%d SFID %d/%d param %d code %d	Service Flow Error Encodings Refer to RFI Specification SP-RFIV1.1-107-010829 and DOCSIS Specification c.2.2.4. Payload Header Suppression Error Encodings Refer to RFI Specification SP-RFIV1.1-107-010829 and DOCSIS Specification c.2.2.9.	Debug
4303	SF Error SFID %d SREF %d param %d code %d, %s	External event to CMTS illegal. Service Flow Error Encodings Refer to RFI Specification SP-RFIV1.1-107-010829 and DOCSIS Specification c.2.2.4.	Debug
4304	Class error SFID %d SREF %d CID %d CREF %d param %d code %d, %s	External event to CMTS illegal. Classifier Error Encodings Refer to RFI Specification SP-RFIV1.1-107-010829 and DOCSIS Specification c.2.1.4.	Debug

Table 37-1 (continued)
Dynamic service event codes

Event ID	Event Text Message	Event Definition	* Priority
4305	PHS Error SFID %d SREF %d CID %d CREF %d param %d code %d, %s	External event to CMTS illegal. Payload Header Suppression Error Encodings Refer to RFI Specification SP-RFIV1.1-107-010829 and DOCSIS Specification c.2.2.9.	Debug
4308	Received bad DSC-RSP from MAC addr %A confirmation code %d	Received bad DSC-RSP	Debug
4309	Transmit errored DSC-ACK confirmation code %d to MAC addr %A	Transmit errored DSC-ACK	Debug
4310	Received bad DSC-REQ from MAC addr %A	Received bad DSC-REQ	Debug
4311	Transmit errored DSC-RSP confirmation code %d to MAC addr %A	Transmit errored DSC-RSP	Debug
4312	Received not OK DSC-ACK from MAC addr %A confirmation code %D.	Received bad DSC-ACK.	Debug
4313	Received transaction ID is unknown and msg is not a req msg %D.	Received unknown transaction ID. External event to CMTS illegal.	Error
4314	Received invalid transaction ID value for dsx message %d.	Received invalid transaction ID value. External event to CMTS illegal.	Error
4315	Received dsx message too small to hold transaction ID.	Received dsx message too small to hold transaction ID. External event to CMTS illegal.	Error
4316	DS assertion debug info, file %s, line %d.	DS assertion debug information. Software error. If priority is emergency, or if priority is error and occurs repeatedly, then record steps to recreate the event, capture the event log and console output, and contact Customer Service.	Debug
4317	DS hit default %d file %s line %d.	DS hit default. Debug information for Software Engineering use.	Emergency
4318	Delete request specified primary flow MAC addr %A, must deregister.	Delete request specified primary flow. Debug information for Software Engineering use.	Error

Table 37-1 (continued)
Dynamic service event codes

Event ID	Event Text Message	Event Definition	* Priority
4319	Deadmit or deactivate primary flow, deregister modem %A.	Deadmit or deactivate primary flow, deregister modem. Debug information for Software Engineering use.	Error
4320	DSx req specified sfids from two diff sf groups, MAC addr %A.	DSx req specified sfids from two different sf groups. External event to CMTS illegal.	Error
4321	DSA RSP was too big, fail the DSA for MAC addr %A.	DSA rsp too big. External event to CMTS illegal.	Error
4322	DSC RSP was too big, fail the DSC for MAC addr %A.	DSC rsp too big. External event to CMTS illegal.	Error
4323	DSC ACK was OKAY but DSC-RSP was not, out of sync MAC addr %A.	DSC out of sync. External event to CMTS illegal.	Error
<p>* emergency—fatal error, cannot recover; alert—a condition that should be corrected immediately; critical—critical condition such as NVRAM is full; error—non-fatal error, may or may not require action; warning—warning message; notice—condition that is not error connected but may require special handling; information—information message, no action required; debug—internal debug information</p>			

System Manager Event Codes

Flash codes

Table 37-1 lists and describes flash memory-related error codes for the system manager module generated by the CMTS 1500.

Table 37-1
Flash event codes

Event ID	Event Text Message	Event Definition	* Priority
4400	FH: Non-volatile memory is FULL, config changes will no longer be saved	Flash memory is FULL, config updates will not be saved	Critical
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning — warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			

RFC related messages

Table 37-2 lists and describes the error codes for the dynamic service event module generated by the CMTS 1500.

Table 37-2
RFC event codes

Event ID	Event Text Message	Event Definition	* Priority
4500	RFC COLDSTART TRAP	Cold start trap	Notice
4501	RFC WARMSTART TRAP	Warn start trap	Notice
4502	RFC LINKUP TRAP IfEntry_numr:%d ifIndex:%d	The link is up on the specified interface	Notice
4503	RFC LINKDOWN TRAP IfEntry_numr:%d ifIndex:%d	The link is down on the specified interface	Notice
4504	RFC AUTHENTICATION FAILURE invalid_name:'%s' nameLength:%d src_ip_addr"%x failure reason:%d interface:%d	Authentication failure	Error
4505	RFC topology change	Topology change	Information
4506	RFC new root	New root	Information
* emergency —fatal error, cannot recover; alert —a condition that should be corrected immediately; critical —critical condition such as NVRAM is full; error —non-fatal error, may or may not require action; warning —warning message; notice —condition that is not error connected but may require special handling; information —information message, no action required; debug — internal debug information			



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