



Call Termination Cause Codes

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Introduction

This appendix lists call termination cause values and definitions.

BTS 10200 Call Termination Cause Values and Definitions

Table A-1 lists the BTS 10200 call termination cause values and definitions.



A "*" next to the value in Table A-1 indicates the cause code is not a standard BAF cause code; it is unique to the Cisco BTS 10200 Softswitch. All values of 400 or higher are used internally only and do not appear in the billing records transmitted from the EMS.

Table A-1 Call Termination Cause Values and Definitions

| Value | Cause Definition | In Release 7.0 |
|-------|---|----------------------|
| 1 | Attempted termination to an unallocated or unassigned directory number. | Yes |
| 2 | No route available to the specified transit network. | Yes |
| 3 | No route available to the specified destination. | Yes |
| 4 | Vacant code. | Yes |
| 6 | Channel unacceptable. | Yes |
| 7 | Call awarded and being delivered in an established channel. | Yes |
| 8 | Prefix 0 was dialed in error. | Yes |
| 9 | Prefix 1 was dialed in error. | Yes |
| 10 | Prefix 1 was not dialed when required. | Yes |
| 11 | Excessive digits received, call is progressing. | Yes |
| 12 | Call is proceeding. | Yes |

Table A-1 Call Termination Cause Values and Definitions (continued)

| Value | Cause Definition | In Release 7.0 |
|-------|--|----------------------|
| 13 | The requested service was denied. | Yes |
| 14 | Indicates an exchange detected that the called number was ported out. | Yes |
| 16 | Normal call clearing. | Yes |
| 17 | Termination called is busy. | Yes |
| 18 | No user responding. | Yes |
| 19 | User altering, no answer. | Yes |
| 21 | Call was rejected. | Yes |
| 22 | The terminating number was changed. | Yes |
| 23 | Terminating party rejects all calls with Calling Line Identification Restriction. | Yes |
| 24 | The destination business group is not defined. | Yes |
| 25* | Exchange routing error occurred. | Yes |
| 26* | For ANSI calls, the destination is misrouted because the number is ported out of the switch. | Yes |
| | For ISDN calls, the destination is able to accept calls but no user is assigned to the endpoint. | |
| 27 | The specified destination was out of order. | Yes |
| 28 | Invalid number format or incomplete address. | Yes |
| 29 | Facility rejected. | Yes |
| 30 | Response to STATUS ENQ message. | Yes |
| 31 | Normal, unspecified. | Yes |
| 34 | Circuit or channel congestion. | Yes |
| 35 | Requested VPCI/VCI was not available. | Yes |
| 36 | VPCI/VCI assignment failure. | Yes |
| 37 | The user cell rate was unavailable. | Yes |
| 38* | Network out of order. | Yes |
| 39 | The destination Permanent Virtual Circuit (PVC) is out of order. | Yes |
| 41 | Temporary failure. | Yes |
| 42 | Switching Equipment Congestion. | Yes |
| 43 | Access information discarded. | Yes |
| 44 | Requested channel not available. | Yes |
| 45 | No VPCI/VCI available. | Yes |
| 46 | Precedence call blocked. | Yes |
| 47 | Network resource unavailable or unspecified. | Yes |
| 49 | Quality of service unavailable. | Yes |
| 50 | Requested facility not subscribed to. | Yes |

Table A-1 Call Termination Cause Values and Definitions (continued)

| Value | Cause Definition | In Release 7.0 |
|-------|---|----------------------|
| 51 | Bearer capability incompatible with service request. | Yes |
| 53 | Service operation violated. | Yes |
| 57 | Bearer capability not authorized. | Yes |
| 58 | Bearer capability not presently available. | Yes |
| 63 | Service or option unspecified. | Yes |
| 65 | Bearer capability not implemented. | Yes |
| 66* | Channel type not implemented. | No |
| 69 | Requested facility not implemented. | Yes |
| 70 | Restoration digital bearer capacity only available. | No |
| 73 | Unsupported combination of traffic parameters. | Yes |
| 78 | AAL parameter cannot be supported. | Yes |
| 79 | Service or option not implemented. | Yes |
| 81 | Invalid call reference value. | Yes |
| 82 | Identified channel does not exist. | Yes |
| 84* | Call id already in use. | No |
| 85* | No call suspended. | No |
| 86* | Call id cleared. | No |
| 88 | Incompatible destination. | Yes |
| 89 | Invalid endpoint reference. | Yes |
| 90* | Unspecified invalid message error. | No |
| 91 | Invalid transit network selection. | Yes |
| 92 | Too many pending add party requests. | Yes |
| 96 | Mandatory information element missing. | Yes |
| 97 | Message type nonexistent or not implemented. | Yes |
| 98* | Message type not compatible. | No |
| 99 | Information element nonexistent or not implemented. | Yes |
| 100 | Invalid information element contents. | Yes |
| 101 | Message not compatible with call state. | Yes |
| 102 | Recovery on timer expiration. | Yes |
| 104 | Incorrect message length. | Yes |
| 111 | Protocol error – unspecified. | Yes |
| 112 | Protocol error – threshold exceeded. | Yes |
| 120 | Special intercept announcement. | No |
| 121 | Special intercept announcement—undefined code. | No |
| 122 | Special intercept announcement—call blocked due to group restriction. | No |

Table A-1 Call Termination Cause Values and Definitions (continued)

| Value | Cause Definition | In Release 7.0 |
|-------|--|----------------------|
| 127 | Interworking error—unspecified. | Yes |
| 150 | Call Terminated due to Session Timer Refresh Request Time Out. | Yes |
| 901 | NE Cause Audit Release. | Yes |

BTS 10200 Bye Message Cause Code to GR-1100 Cause Code Mapping

The call termination cause code contained in a CDR is a mapping of the BTS 10200 call termination code to a GR-1100 code. In several cases, the cause code used during call processing does not map directly into a GR-1100. In these instances, the mapping shown in Table A-2is performed to generate the CDR call termination cause code:

Table A-2 BTS 10200 Bye Message Cause Code to GR-1100 Cause Code Mapping

| Bye Message Cause Code | Bye Message Cause Code Definition | Mapped BAF GR-1100 Cause Code | Mapped BAF GR-1100 Cause Code Definition |
|---------------------------------|---|---|---|
| 5 | CA CCITT NE CAUSE TRUNKPREF MISDIAL | 41 | TEMPORARY FAILURE |
| 8 | CA ANSI NE CAUSE PREFIX 0 ERROR | 8 | ZERO DIALED IN ERROR |
| 20 | CA CCITT NE SUBSCRIBER ABSENT | 1 | UNASSIGNED NUMBER |
| 23 | CA ANSI NE DEST NUMBER UNALLOCATED | 1 | UNASSIGNED NUMBER |
| 24 | CA ANSI NE BUSINESS GRP UNDEFINED | 1 | UNASSIGNED NUMBER |
| 25 | CA ANSI NE CAUSE EXCHG ROUTE ERROR | 47 | RESOURCE UNAVAILABLE |
| 38 | CA CCITT NRU CAUSE NET OUTOFORDER | 47 | RESOURCE UNAVAILABLE |
| 39 | CA CCITT NRU CAUSE PVC OUTOFORDER | 47 | RESOURCE UNAVAILABLE |
| 46 | CA CCITT NRU PRECEDENCE CALL BLOCKED | 21 | CALL REJECTED |
| 54 | CA ANSI SNA GRP RESTR CALL BLOCKED | 21 | CALL REJECTED |

Table A-2 BTS 10200 Bye Message Cause Code to GR-1100 Cause Code Mapping (continued)

| Bye Message Cause Code | Bye Message Cause Code Definition | Mapped BAF GR-1100 Cause Code | Mapped BAF GR-1100 Cause Code Definition |
|---------------------------------|--|---|---|
| 55 | CA CCITT SNA IN CUG CALL BARRED | 21 | CALL REJECTED |
| 62 | CA CCITT SNA CAUSE SERVICE INCONSISTENCY | 13 | SERVICE DENIED |
| 66 | CA CCITT SNI CAUSE CHANNELTYPE UNIMPLEMENTED | 65 | BEARER CAPABILITY NOT IMPLEMENTED |
| 70 | CA CCITT SNI CAUSE RESTDIGITAL BEARERCAP ONLYAVAIL | 49 | QOS UNAVAILABLE |
| 83 | CA CCITT IM CAUSE SUSP CALLID NOTEXIST | 31 | NORMAL UNSPECIFIED |
| 84 | CA CCITT IM CAUSE CALLID INUSE | 31 | NORMAL UNSPECIFIED |
| 85 | CA CCITT IM CAUSE NOCALL SUSPENDED | 31 | NORMAL UNSPECIFIED |
| 86 | CA CCITT IM CAUSE CALLID CLEARED | 31 | NORMAL UNSPECIFIED |
| 87 | CA CCITT IM CAUSE USER NOT CUG MEMBER | 31 | NORMAL UNSPECIFIED |
| 90 | CA CCITT IM CAUSE CUG NOT EXIST | 31 | NORMAL UNSPECIFIED |
| 95 | CA CCITT IM CAUSE UNSPECIFIED | 31 | NORMAL UNSPECIFIED |
| 98 | CA CCITT PE CAUSE MSGTYPE NOTCOMPAT | 101 | MESSAGE INCOMPATIBLE WITH CALLSTATE |
| 103 | CA CCITT PE CAUSE NOTEXIST UNIMPL PARAM PASSON | 100 | INVALID INFOELEMENT |
| 110 | CA CCITT PE CAUSE UNRECOGNIZE PARAM DISCARD | 100 | INVALID INFOELEMENT |

BTS 10200 Bye Message Cause Code to GR-1100 Cause Code Mapping