

# SIP Responses / ISDN Cause Codes

If only a SIP response or an ISDN cause code is provided, this is how the jtel telephony server maps the values.

See also <https://tools.ietf.org/html/rfc3398> for further details.

## Normal Clearing

The sending or receiving of normal clearing cause 16 in ISDN will result in a SIP BYE or CANCEL. There is no mapping provided.

## SIP to ISDN

SIP Response Code	SIP Meaning	ISDN Cause Code	ISDN Meaning
400	Bad Request	41	Temporary Failure
401	Unauthorized	21	Call Rejected
402	Payment Required	21	Call Rejected
403	Forbidden	21	Call Rejected
404	Not Found	1	Unallocated / Unassigned Number
405	Method Not Allowed	63	Service or Option Unavailable
406	Not Acceptable	79	Service / Option Not Implemented
407	Proxy Authentication Required	21	Call Rejected
408	Request Timeout	102	Recovery On Timer Expiry
410	Gone	22	Number Changed (no diagnostic)
413	Request Entry Too Long	127	Interworking Unspecified
414	Request URI Too Long	127	Interworking Unspecified
415	Unsupported Media Type	79	Service / Option Not Implemented
416	Unsupported URI Scheme	127	Interworking Unspecified
420	Bad Extension	127	Interworking Unspecified
421	Extension Required	127	Interworking Unspecified
423	Interval Too Brief	127	Interworking Unspecified
480	Temporarily Unavailable	18	User Not Responding
481	Call Transaction Does Not Exist	41	Temporary Failure
482	Loop Detected	25	Exchange Routing Error
483	Too Many Hops	25	Exchange Routing Error

484	Address Incomplete	28	Invalid number format (address incomplete)
485	Ambiguous	1	Unallocated / Unassigned Number
486	Busy Here	17	User Busy
487	Request Terminated	16	Normal Call Clearing
500	Server Internal Error	41	Temporary Failure
501	Not Implemented	79	Service / Option Not Implemented
502	Bad Gateway	38	Network Out of Order
503	Service Unavailable	41	Temporary Failure
504	Gateway Timeout	102	Recovery On Timer Expiry
505	Version Not Supported	127	Interworking Unspecified
513	Message Too Long	127	Interworking Unspecified
600	Busy Everywhere	17	User Busy
603	Decline	21	Decline
604	Does Not Exist Anywhere	1	Unallocated Number
All other codes		127	Interworking Unspecified

## ISDN to SIP

ISDN Cause Code	ISDN Meaning	SIP Response Code	SIP Meaning
1	Unallocated / Unassigned Number	404	Not Found
2	No route to specified transit network	404	Not Found
3	No route to destination	404	Not Found
16	Normal call clearing	487	Request Terminated
17	User busy	486	Busy Here
18	No user responding	408	Request Timeout
19	No answer from user (user alerted)	480	Temporarily Unavailable
20	Subscriber absent	480	Temporarily Unavailable
21	Call rejected	403	Forbidden
22	Number changed	410	Gone
26	Non-selected user clearing	404	Not Found
27	Destination out of order	502	Bad Gateway
28	Invalid number format (address incomplete)	484	Address Incomplete
29	Facility rejected	501	Not Implemented
31	Normal, unspecified	480	Temporarily Unavailable

34	No circuit/channel available	503	Service Unavailable
38	Network out of order	503	Service Unavailable
41	Temporary failure	503	Service Unavailable
42	Switching equipment congestion	503	Service Unavailable
47	Resource unavailable, unspecified	503	Service Unavailable
53	Outgoing calls barred within CUG	403	Forbidden
55	Incoming calls barred within CUG	403	Forbidden
57	Bearer capability not authorized	403	Forbidden
58	Bearer capability not presently available	503	Service Unavailable
65	Bearer capability not implemented	488	Not Acceptable Here
70	Only restricted digital information bearer capability is available	488	Not Acceptable Here
79	Service or option not implemented, unspecified	501	Not Implemented
87	User not member of CUG	403	Forbidden
88	Incompatible destination	503	Service Unavailable
102	Recovery on timer expiry	504	Gateway Timeout
111	Protocol error, unspecified	500	Server Internal Error
127	Interworking, unspecified	500	Server Internal Error
All other values		500	Server Internal Error