

## Default SIP-to-SS7 ISUP Cause Codes

ISUP Cause Value	SIP Response
Normal event	
1 – unallocated number	404 Not Found
2 – no route to network	404 Not Found
3 – no route to destination	404 Not Found
16 – normal call clearing	--- (*)
17 – user busy	486 Busy here
18 – no user responding	408 Request Timeout
19 – no answer from the user	480 Temporarily unavailable
20 – subscriber absent	480 Temporarily unavailable
21 – call rejected	403 Forbidden (+)
22 – number changed (s/ o diagnostic)	410 Gone
22 – number changed ( w/ diagnostic)	301 Moved permanently
23 – redirection to new destination	410 Gone
26 – non-selected user clearing	404 Not Found (=)
27 – destination out of order	502 Bad Gateway
28 – address incomplete	484 Address incomplete
29 – facility rejected	510 Not implemented
31 – normal unspecified	480 Temporarily unavailable Resource unavailable
34 – no circuit 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	503 Service unavailable Service or option

	not available
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 (National use)	488 Not Acceptable here
79 – service or option not implemented	501 Not implemented
Invalid message	
87 – user not member of CUG	403 Forbidden
88 – incompatible destination	503 Service unavailable
102 – Call Setup Time-out Failure	504 Gateway timeout
111 – Protocol Error Unspecified	500 Server internal error Interworking
127 – Internal Error - interworking unspecified	500 Server internal error
	500 – Server internal error (default)

(\*) ISDN Cause 16 will usually result in a BYE or CANCEL

(+) If the cause location is 'user' than the 6xx code could be given rather than the 4xx code. the cause value received in the H.225.0 message is unknown in ISUP, the unspecified cause value of the class is sent.

(=) ANSI procedure

## SIP Status Code to ISDN Cause Code Mapping

Response received Cause value in the REL

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 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 (w/o diagnostic)  
413 – Request Entity too long 127 – Interworking (+)  
414 – Request –URI too long 127 – Interworking (+)  
415 – Unsupported media type 79 – Service/option not implemented (+)  
416 – Unsupported URI Scheme 127 – Interworking (+)  
402 – Bad extension 127 – Interworking (+)  
421 – Extension Required 127 – Interworking (+)  
423 – Interval Too Brief 127 – Interworking (+)  
480 – Temporarily unavailable 18 – No user 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 (+)  
485 – Ambiguous 1 – Unallocated number  
486 – Busy here 17 – User Busy  
487 – Request Terminated --- (no mapping)  
488 – Not Acceptable here --- by warning header  
500 – Server internal error 41 – Temporary Failure  
501 – Not implemented 79 – Not implemented, unspecified  
502 – Bad gateway 38 – Network out of order  
503 – Service unavailable 41 – Temporary Failure  
504 – Service time-out 102 – Recovery on timer expiry  
505 – Version Not supported 127 – Interworking (+)  
513 – Message Too Large 127 – Interworking (+)  
600 – Busy everywhere 17 – User busy  
603 – Decline 21 – Call rejected  
604 – Does not exist anywhere 1 – Unallocated number



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