

## SIP- Cause Code Mappings - ISUP to SIP

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
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

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

(+) If the cause location is user then 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.

SIP Status Code	ISDN Map
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
606 - Not acceptable	--- by warning header