



Cause and Location Codes

The following sections contain the cause and location codes for the result types listed in Table 2-45 on page 2-56 and Table 2-48 on page 2-80.

NOA Codes

The NOA codes listed in the following sections define protocol-specific NOA values and the unique mappings to numerical values supported by each protocol.

Internally Generated Cause Codes

The following cause codes are generated when a call is rejected by, or the clearance is initiated by, the system.

Cause Mnemonic	Explanation
IC_SERVICE_UNAVAILABLE	Receipt of virtual call, with no ASC channel possible.
IC_TEMPORARY_FAILURE	Internal processing has produced an unexpected event, such as a failure to determine the validity of the call, an unimplemented service request, or an ASC failure.
IC_BLACKLIST_NO_CLI	No CLI present with CLIP Essential parameter set.
IC_BLACKLIST_CLI_LENGTH_INVALID	Received CLI has invalid length.
IC_BLACKLIST_CLI_MATCHED	CLI of incoming call matches black list settings.
IC_BLACKLIST_CPC_RESTRICTED	Calling Party Category of incoming call matches black list settings, or is missing.
IC_BLACKLIST_NOA_RESTRICTED	Calling / Called NOA matches black list settings.
IC_BLACKLIST_BNUMBER_MATCHED	Called Number matches black list settings.
IC_ADDRESS_INCOMPLETE	Sending Complete received from originating side, or overlap digit timer expired, with insufficient digits received to route call.
IC_NORMAL_CLEARING	Unsupported Suspend/Resume events.
IC_INTERWORK_UNSPEC	BSM or FSM required but not supplied.
IC_NO_CIRCUIT_AVAILABLE	No available trunks.

Cause Mnemonic	Explanation
IC_CONGESTION	All terminating circuits busy.
IC_VACENT_CODE	System configuration error.

Appendixes/Attachments

The following sections list all cause values and mappings performed.

Internal Cause Codes

The following is a list of the mnemonics used for internal causes and the actual numeric values associated with these causes.

Cause Mnemonic	Val.	Cause Mnemonic	Val.
IC_ACCESS_INFO_DISCARDED	1	IC_MSG_IN_WRONG_STATE	23
IC_BEARCAP_NOT_AUTHORIZED	2	IC_MSG_TYPE_NOT_IMP	24
IC_BEARCAP_NOT_AVAIL	3	IC_MSG_TYPE_NOT_IMP_OR_WRONG_STATE	25
IC_BEARCAP_NOT_IMP	4	IC_NETWORK_OUT_OF_ORDER	26
IC_CALL_AWARDED_DELIVERED_EST_CH	5	IC_NO_CALL_SUSPENDED	27
IC_CALL_ID_HAS_BEEN_CLEARED	6	IC_NO_ANSWER_ALERTED_USER	28
IC_CALL_ID_IN_USE	7	IC_NO_CIRCUIT_AVAILABLE	29
IC_CALL_REJECTED	8	IC_NON_SELECTED_USER_CLEARING	30
IC_CH_ID_NOT_EXIST	9	IC_NORMAL_CLEARING	31
IC_CH_TYPE_NOT_IMP	10	IC_NORMAL_UNSPECIFIED	32
IC_CH_UNACCEPTABLE	11	IC_NO_ROUTE_TO_DEST	33
IC_DEST_OUT_OF_ORDER	12	IC_NO_ROUTE_TO_TNS	34
IC_ELEM_TYPE_NOT_IMP	13	IC_NO_USER_RESPONDING	35
IC_FACILITY_REJECTED	14	IC_NUMBER_CHANGED	36
IC_INCOMPATIBLE_DEST	15	IC_ONLY_RESTRICT_DIG_INFO_BEARER	37
IC_INTERWORK_UNSPEC	16	IC_PROTOCOL_ERROR_UNSPEC	38
IC_INVALID_CALL_REFERENCE_VALUE	17	IC_QUALITY_UNAVAIL	39
IC_INVALID_ELEM_CONTENTS	18	IC_RECOVERY_ON_TIMER_EXPIRY	40
IC_INVALID_MSG_UNSPEC	19	IC_REQ_CIRCUIT_UNAVAIL	41
IC_INVALID_NUMBER_FORMAT	20	IC_REQ_FACILITY_NOT_IMP	42
IC_INVALID_TNS	21	IC_REQ_FACILITY_NOT_SUBSCR	43
IC_BUSY	56	IC_UNREC_ELEM_PASSED_ON	89
IC_CHANNEL_OUT_OF_SERVICE	57	IC_SUB_ABSCENT	90
IC_DTE_CONTROLLED_NOT_READY	58	IC_UNDEFINED_BG	91

Cause Mnemonic	Val.	Cause Mnemonic	Val.
IC_CONGESTION	59	IC_ROUTING_ERROR	92
IC_CALL_TERMINATION	60	IC_PRECEDENCE_BLOCKED	93
IC_FACILITY_NOT_REGISTERED	61	IC_CALL_TYPE_INCOMPATIBLE	94
IC_INCOMING_CALLS_BARRED	62	IC_GROUP_RESTRICTIONS	95
IC_SERVICE_INCOMPATIBLE	63	IC_CALLING_PARTY_OFF_HOLD	96
IC_MESSAGE_NOT_UNDERSTOOD	64	IC_CALLING_DROPPED_WHILE_ON_HOLD	97
IC_NETWORK_ADDRESS_EXTENSION_ERROR	65	IC_NEW_DESTINATION	98
IC_NETWORK_TERMINATION	66	IC_OUTGOING_CALLS_BARRED	99
IC_NUMBER_UNOBTAINABLE	67	IC_SUB_CONTROLLED_ICB	100
IC_PRIORITY_FORCED_RELEASE	68	IC_CALL_REJECT_CALL_GAPPING	101
IC_REJECT	69	IC_REJECTED_DIVERTED_CALL	102
IC_ROUTE_OUT_OF_SERVICE	70	IC_SELECTIVE_CALL_BARRING	103
IC_SUBSCRIBER_INCOMPATIBLE	71	IC_REMOTE_PROC_ERROR	104
IC_SIGNAL_NOT_UNDERSTOOD	72	IC_TEMPORARY_OOS	105
IC_SIGNAL_NOT_VALID	73	IC_OPERATOR_PRIORITY_ACCESS	106
IC_SUBSCRIBER_OUT_OF_SERVICE	74	IC_CUG_ACCESS_BARRED	107
IC_SIGNALLING_SYSTEM_INCOMPATIBLE	75	IC_SUBSCRIBER_CALL_TERMINATE	108
IC_SERVICE_TEMPORARILY_UNAVAILABLE	76	IC_FLOW_CONTROLLED_CONGESTION	109
IC_SERVICE_UNAVAILABLE	77	IC_OUT_OF_CATCHMENT_AREA	110
IC_DTE_UNCONTROLLED_NOT_READY	78	IC_TRANSLATION_OOS	111
IC_TRANSFERRED	79	IC_PERMANENT_ICB	112
IC_INCOMING_CALLS_BARRED_IN_CUG	80	IC_SUBSCRIBER_MOVED	113
IC_SPECIAL_INFORMATION_TONE	81	IC_SUB_NOT_FOUND_DLE	114
IC_USER_NOT_MEMBER_OF_CUG	82	IC_ANONYMOUS_CALL_REJECTION	115
IC_MISDIALLED_TK_PREFIX	83	IC_TERMINAL_CONGESTION	116
IC_PARAM_UNREC_PASSED	84	IC_REPEAT_ATTEMPT	117
IC_PROPRIETARY	85	IC_VACANT_CODE	118
IC_PREEMPTION	86	IC_PREFIX_0_DIALLED_IN_ERROR	119
IC_PREEMPTION_CCT_UNAVAILABLE	87	IC_PREFIX_1_DIALLED_IN_ERROR	120
IC_UNALLOCATED_DEST_NUMBER	88	IC_PREFIX_1_NOT_DIALLED	121
IC_PROT_ERR_THRESHOLD_EXCEEDED	123		
IC_OUTGOING_CALLS_BARRED_IN_CUG	124		
IC_INCON_OUTGOING_ACC_AND_SUB_CLASS	125		
IC_NON_EXISTENT_CUG	126		
IC_MESG_WITH_UNREC_ELEM_DISCARDED	127		
IC_PREEMPTION_CCT_RES	128		
IC_PERMANENT_FRAME_MODE_OOS	129		

Cause Mnemonic	Val.	Cause Mnemonic	Val.
IC_PERMANENT_FRAME_MODE_OPERATIONAL	130		
IC_BLACKLIST_NO_CLI	131		
IC_BLACKLIST_CLI_LENGTH_INVALID	132		
IC_BLACKLIST_CLI_MATCHED	133		
IC_BLACKLIST_CPC_RESTRICTED	134		
IC_BLACKLIST_NOA_RESTRICTED	135		
IC_BLACKLIST_BNUMBER_MATCHED	136		
IC_WHITELIST_CLI_NOT_MATCHED	137		
IC_PORTED_NUMBER	138		
IC_REDIRECTION_TO_NEW_DEST	139		
IC_COT_FAILURE	140		
IC_UNKNOWN	141		

DPNSS Mappings

DPNSS to Internal Cause Mappings

Received DPNSS Cause	Internal Mapping
ACCESS_BARRED (29H)	IC_ACCESS_BARRED
ACKNOWLEDGEMENT (14H)	IC_ACKNOWLEDGEMENT
ADDRESS_INCOMPLETE (01H)	IC_ADDRESS_INCOMPLETE
BUSY (08H)	IC_BUSY
CALL_TERMINATION (30H)	IC_CALL_TERMINATION
CHANNEL_OUT_OF_SERVICE (23H)	IC_CHANNEL_OUT_OF_SERVICE
CONGESTION (07H)	IC_CONGESTION
DTE_CONTROLLED_NOT_READY (2DH)	IC_DTE_CONTROLLED_NOT_READY
DTE_UNCONTROLLED_NOT_READY (2EH)	IC_DTE_UNCONTROLLED_NOT_READY
FACILITY_NOT_REGISTERED (18H)	IC_FACILITY_NOT_REGISTERED
INCOMING_CALLS_BARRED (0AH)	IC_INCOMING_CALLS_BARRED
MESSAGE_NOT_UNDERSTOOD (1AH)	IC_MESSAGE_NOT_UNDERSTOOD
NETWORK_ADDRESS_EXTENSION_ERROR (1EH)	IC_NETWORK_ADDRESS_EXTENSION_ERROR
NETWORK_TERMINATION (02H)	IC_NETWORK_TERMINATION
NUMBER_UNOBTAINABLE (00H)	IC_NUMBER_UNOBTAINABLE
PRIORITY_FORCED_RELEASE (24H)	IC_PRIORITY_FORCED_RELEASE
REJECT (19H)	IC_REJECT

Received DPNSS Cause	Internal Mapping
ROUTE_OUT_OF_SERVICE (1CH)	IC_ROUTE_OUT_OF_SERVICE
SERVICE_INCOMPATIBLE (13H)	IC_SERVICE_INCOMPATIBLE
SERVICE_TEMPORARILY_UNAVAILABLE (17H)	IC_SERVICE_TEMPORARILY_UNAVAILABLE
SERVICE_UNAVAILABLE (03H)	IC_SERVICE_UNAVAILABLE
SIGNALLING_SYSTEM_INCOMPATIBLE (1BH)	IC_SIGNALLING_SYSTEM_INCOMPATIBLE
SIGNAL_NOT_UNDERSTOOD (15H)	IC_SIGNAL_NOT_UNDERSTOOD
SIGNAL_NOT_VALID (16H)	IC_SIGNAL_NOT_VALID
SUBSCRIBER_INCOMPATIBLE (04H)	IC_SUBSCRIBER_INCOMPATIBLE
SUBSCRIBER_OUT_OF_SERVICE (09H)	IC_SUBSCRIBER_OUT_OF_SERVICE
TRANSFERRED (1DH)	IC_TRANSFERRED

Internal to DPNSS Cause Mapping

Internal Cause Mnemonic	Transmitted DPNSS Cause
IC_ACCESS_INFO_DISCARDED	CALL_TERMINATION
IC_BEARCAP_NOT_AUTHORIZED	CALL_TERMINATION
IC_BEARCAP_NOT_AVAIL	CALL_TERMINATION
IC_BEARCAP_NOT_IMP	SERVICE_INCOMPATIBLE
IC_CALL_AWARDED_DELIVERED_EST_CH	CALL_TERMINATION
IC_CALL_ID_HAS_BEEN_CLEARED	CALL_TERMINATION
IC_CALL_ID_IN_USE	CALL_TERMINATION
IC_CALL_REJECTED	CALL_TERMINATION
IC_CH_ID_NOT_EXIST	CALL_TERMINATION
IC_CH_TYPE_NOT_IMP	CALL_TERMINATION
IC_CH_UNACCEPTABLE	CALL_TERMINATION
IC_DEST_OUT_OF_ORDER	SUBSCRIBER_OUT_OF_SERVICE
IC_ELEM_TYPE_NOT_IMP	CALL_TERMINATION
IC_FACILITY_REJECTED	CALL_TERMINATION
IC_INCOMPATIBLE_DEST	SUBSCRIBER_INCOMPATIBLE
IC_INTERWORK_UNSPEC	CALL_TERMINATION
IC_INVALID_CALL_REFERENCE_VALUE	CALL_TERMINATION
IC_INVALID_ELEM_CONTENTS	CALL_TERMINATION
IC_INVALID_MSG_UNSPEC	CALL_TERMINATION
IC_INVALID_NUMBER_FORMAT	ADDRESS_INCOMPLETE
IC_INVALID_TNS	CALL_TERMINATION
IC_MANDATORY_ELEMENT_MISSING	CALL_TERMINATION

Internal Cause Mnemonic	Transmitted DPNSS Cause
IC_MSG_IN_WRONG_STATE	CALL_TERMINATION
IC_MSG_TYPE_NOT_IMP	CALL_TERMINATION
IC_MSG_TYPE_NOT_IMP_OR_WRONG_STATE	CALL_TERMINATION
IC_NETWORK_OUT_OF_ORDER	ROUTE_OUT_OF_SERVICE
IC_NO_CALL_SUSPENDED	CALL_TERMINATION
IC_NO_ANSWER_ALERTED_USER	NETWORK_TERMINATION
IC_NO_CIRCUIT_AVAILABLE	CONGESTION
IC_NON_SELECTED_USER_CLEARING	CALL_TERMINATION
IC_NORMAL_CLEARING	CALL_TERMINATION
IC_NORMAL_UNSPECIFIED	CALL_TERMINATION
IC_NO_ROUTE_TO_DEST	CALL_TERMINATION
IC_NO_ROUTE_TO_TNS	CALL_TERMINATION
IC_NO_USER_RESPONDING	NETWORK_TERMINATION
IC_NUMBER_CHANGED	NUMBER_UNOBTAINABLE
IC_ONLY_RESTRICT_DIG_INFO_BEARER	SERVICE_INCOMPATIBLE
IC_PROTOCOL_ERROR_UNSPEC	CALL_TERMINATION
IC_QUALITY_UNAVAIL	CALL_TERMINATION
IC_RECOVERY_ON_TIMER_EXPIRY	NETWORK_TERMINATION
IC_REQ_CIRCUIT_UNAVAIL	CONGESTION
IC_REQ_FACILITY_NOT_IMP	CALL_TERMINATION
IC_REQ_FACILITY_NOT_SUBSCR	CALL_TERMINATION
IC_RESOURCES_UNAVAIL_UNSPEC	CALL_TERMINATION
IC_RESPONSE_TO_STATUS_ENQUIRY	CALL_TERMINATION
IC_SERVICE_OR_OPTION_NOT_IMP_UNSPEC	CALL_TERMINATION
IC_SERVICE_OR_OPTION_NOT_AVAIL	CALL_TERMINATION
IC_SUSPEND_EXIST_BUT_NOT_THIS_ID	CALL_TERMINATION
IC_SWITCHING_EQUIP_CONGESTION	CONGESTION
IC_TEMPORARY_FAILURE	CONGESTION
IC_UNALLOCATED_NUMBER	NUMBER_UNOBTAINABLE
IC_USER_BUSY	BUSY
IC_ACCESS_BARRED	ACCESS_BARRED
IC_ACKNOWLEDGEMENT	ACKNOWLEDGEMENT
IC_ADDRESS_INCOMPLETE	ADDRESS_INCOMPLETE
IC_BUSY	BUSY
IC_CHANNEL_OUT_OF_SERVICE	CHANNEL_OUT_OF_SERVICE
IC_DTE_CONTROLLED_NOT_READY	DTE_CONTROLLED_NOT_READY
IC_CONGESTION	CONGESTION

Internal Cause Mnemonic	Transmitted DPNSS Cause
IC_CALL_TERMINATION	CALL_TERMINATION
IC_FACILITY_NOT_REGISTERED	FACILITY_NOT_REGISTERED
IC_INCOMING_CALLS_BARRED	INCOMING_CALLS_BARRED
IC_SERVICE_INCOMPATIBLE	SERVICE_INCOMPATIBLE
IC_MESSAGE_NOT_UNDERSTOOD	MESSAGE_NOT_UNDERSTOOD
IC_NETWORK_ADDRESS_EXTENSION_ERROR	NETWORK_ADDRESS_EXTENSION_ERROR
IC_NETWORK_TERMINATION	NETWORK_TERMINATION
IC_NUMBER_UNOBTAINABLE	NUMBER_UNOBTAINABLE
IC_PRIORITY_FORCED_RELEASE	PRIORITY_FORCED_RELEASE
IC_REJECT	REJECT
IC_ROUTE_OUT_OF_SERVICE	ROUTE_OUT_OF_SERVICE
IC_SUBSCRIBER_INCOMPATIBLE	SUBSCRIBER_INCOMPATIBLE
IC_SIGNAL_NOT_UNDERSTOOD	SIGNAL_NOT_UNDERSTOOD
IC_SIGNAL_NOT_VALID	SIGNAL_NOT_VALID
IC_SUBSCRIBER_OUT_OF_SERVICE	SUBSCRIBER_OUT_OF_SERVICE
IC_SIGNALLING_SYSTEM_INCOMPATIBLE	SIGNALLING_SYSTEM_INCOMPATIBLE
IC_SERVICE_TEMPORARILY_UNAVAILABLE	SERVICE_TEMPORARILY_UNAVAILABLE
IC_SERVICE_UNAVAILABLE	SERVICE_UNAVAILABLE
IC_DTE_UNCONTROLLED_NOT_READY	DTE_UNCONTROLLED_NOT_READY
IC_TRANSFERRED	TRANSFERRED
IC_INCOMING_CALLS_BARRED_IN_CUG	INCOMING_CALLS_BARRED
IC_SPECIAL_INFORMATION_TONE	CALL_TERMINATION
IC_USER_NOT_MEMBER_OF_CUG	CALL_TERMINATION
IC_MISDIALLED_TK_PREFIX	NUMBER_UNOBTAINABLE
IC_PARAM_UNREC_PASSED	CALL_TERMINATION
IC_PROPRIETARY	CALL_TERMINATION
IC_PREEMPTION	CALL_TERMINATION
IC_PREEMPTION_CCT_UNAVAILABLE	CALL_TERMINATION
IC_UNALLOCATED_DEST_NUMBER	CALL_TERMINATION
IC_UNREC_ELEM_PASSED_ON	CALL_TERMINATION
IC_SUB_ABSCENT	CALL_TERMINATION
IC_UNDEFINED_BG	CALL_TERMINATION
IC_ROUTING_ERROR	NUMBER_UNOBTAINABLE
IC_PRECEDENCE_BLOCKED	CALL_TERMINATION
IC_CALL_TYPE_INCOMPATIBLE	SUBSCRIBER_INCOMPATIBLE
IC_GROUP_RESTRICIONS	SUBSCRIBER_INCOMPATIBLE
IC_CALLING_PARTY_OFF_HOLD	CALL_TERMINATION

Internal Cause Mnemonic	Transmitted DPNSS Cause
IC_CALLING_DROPPED_WHILE_ON_HOLD	CALL_TERMINATION
IC_NEW_DESTINATION	CALL_TERMINATION
IC_OUTGOING_CALLS_BARRED	ACCESS_BARRED
IC_SUB_CONTROLLED_ICB	INCOMING_CALLS_BARRED
IC_CALL_REJECT_CALL_GAPPING	CONGESTION
IC_REJECTED_DIVERTED_CALL	CONGESTION
IC_SELECTIVE_CALL_BARRING	ACCESS_BARRED
IC_REMOTE_PROC_ERROR	NETWORK_TERMINATION
IC_TEMPORARY_OOS	SUBSCRIBER_OUT_OF_SERVICE
IC_OPERATOR_PRIORITY_ACCESS	PRIORITY_FORCED_RELEASE
IC_CUG_ACCESS_BARRED	ACCESS_BARRED
IC_SUBSCRIBER_CALL_TERMINATE	CALL_TERMINATION
IC_FLOW_CONTROLLED_CONGESTION	NETWORK_TERMINATION
IC_OUT_OF_CATCHMENT_AREA	NUMBER_UNOBTAINABLE
IC_TRANSLATION_OOS	ROUTE_OUT_OF_SERVICE
IC_PERMANENT_ICB	INCOMING_CALLS_BARRED
IC_SUBSCRIBER_MOVED	NUMBER_UNOBTAINABLE
IC_SUB_NOT_FOUND_DLE	NUMBER_UNOBTAINABLE
IC_ANONYMOUS_CALL_REJECTION	CALL_TERMINATION
IC_TERMINAL_CONGESTION	CALL_TERMINATION
IC_REPEAT_ATTEMPT	CALL_TERMINATION
IC_VACANT_CODE	CALL_TERMINATION
IC_PREFIX_0_DIALLED_IN_ERROR	CALL_TERMINATION
IC_PREFIX_1_DIALLED_IN_ERROR	CALL_TERMINATION
IC_PREFIX_1_NOT_DIALLED	CALL_TERMINATION
IC_EXCESSIVE_DIG_CALL_PROCEEDING	CALL_TERMINATION
IC_PROT_ERR_THRESHOLD_EXCEEDED	CALL_TERMINATION
IC_OUTGOING_CALLS_BARRED_IN_CUG	CALL_TERMINATION
IC_INCON_OUTGOING_ACC_AND_SUB_CLASS	CALL_TERMINATION
IC_NON_EXISTENT_CUG	CALL_TERMINATION
IC_MESG_WITH_UNREC_ELEM_DISCARDED	CALL_TERMINATION
IC_PREEMPTION_CCT_RES	CALL_TERMINATION
IC_PERMANENT_FRAME_MODE_OOS	CALL_TERMINATION
IC_PERMANENT_FRAME_MODE_OPERATIONAL	CALL_TERMINATION
IC_BLACKLIST_NO_CLI	ACCESS_BARRED
IC_BLACKLIST_CLI_LENGTH_INVALID	ACCESS_BARRED
IC_BLACKLIST_CLI_MATCHED	ACCESS_BARRED

Internal Cause Mnemonic	Transmitted DPNSS Cause
IC_BLACKLIST_CPC_RESTRICTED	ACCESS_BARRED
IC_BLACKLIST_NOA_RESTRICTED	ACCESS_BARRED
IC_BLACKLIST_BNUMBER_MATCHED	CALL_TERMINATION
IC_WHITELIST_CLI_NOT_MATCHED	CALL_TERMINATION
IC_PORTED_NUMBER	CALL_TERMINATION
IC_REDIRECTION_TO_NEW_DEST	CALL_TERMINATION
IC_COT_FAILURE	CALL_TERMINATION
IC_UNKNOWN	CALL_TERMINATION

PRI Cause Mappings

PRI to Internal Cause Mappings

Received PRI Cause	Internal Mapping
UnallocatedNumber (1)	IC_UNALLOCATED_NUMBER
NoRouteToTNS (2)	IC_NO_ROUTE_TO_TNS
NoRouteToDest (3)	IC_NO_ROUTE_TO_DEST
ChUnacceptable (6)	IC_CH_UNACCEPTABLE
CallAwardedDeliveredEstCh (7)	IC_CALL_AWARDED_DELIVERED_EST_CH
NormalClearing (16)	IC_NORMAL_CLEARING
UserBusy (17)	IC_USER_BUSY
NoUserResponding (18)	IC_NO_USER_RESPONDING
NoAnswerAlertedUser (19)	IC_NO_ANSWER_ALERTED_USER
CallRejected (21)	IC_CALL_REJECTED
NumberChanged (22)	IC_NUMBER_CHANGED
NonSelectedUserClearing (26)	IC_NON_SELECTED_USER_CLEARING
DestOutOfOrder (27)	IC_DEST_OUT_OF_ORDER
InvalidNumberFormat (28)	IC_INVALID_NUMBER_FORMAT
FacilityRejected (29)	IC_FACILITY_REJECTED
ResponseToStatusEnquiry (30)	IC_RESPONSE_TO_STATUS_ENQUIRY
NormalUnspecified (31)	IC_NORMAL_UNSPECIFIED
NoCircuitAvailable (34)	IC_NO_CIRCUIT_AVAILABLE
NetworkOutOfOrder (38)	IC_NETWORK_OUT_OF_ORDER
TemporaryFailure (41)	IC_TEMPORARY_FAILURE
SwitchingEquipCongestion (42)	IC_SWITCHING_EQUIP_CONGESTION

PRI Cause Mappings

Received PRI Cause	Internal Mapping
AccessInfoDiscarded (43)	IC_ACCESS_INFO_DISCARDED
ReqCircuitUnavail (44)	IC_REQ_CIRCUIT_UNAVAIL
ResourcesUnavailUnspec (47)	IC_RESOURCES_UNAVAIL_UNSPEC
QualityUnavail (49)	IC_QUALITY_UNAVAIL
ReqFacilityNotSubscr (50)	IC_REQ_FACILITY_NOT_SUBSCR
BearCapNotAuthorized (57)	IC_BEARCAP_NOT_AUTHORIZED
BearCapNotAvail (58)	IC_BEARCAP_NOT_AVAIL
ServiceOrOptionNotAvail (63)	IC_SERVICE_OR_OPTION_NOT_AVAIL
BearCapNotImp (65)	IC_BEARCAP_NOT_IMP
ChTypeNotImp (66)	IC_CH_TYPE_NOT_IMP
ReqFacilityNotImp (69)	IC_REQ_FACILITY_NOT_IMP
OnlyRestrictDigInfoBearer (70)	IC_ONLY_RESTRICT_DIG_INFO_BEARER
ServiceOrOptionNotImpUnspec (79)	IC_SERVICE_OR_OPTION_NOT_IMP_UNSPEC
InvalidCallReferenceValue (81)	IC_INVALID_CALL_REFERENCE_VALUE
ChIdNotExist (82)	IC_CH_ID_NOT_EXIST
SuspendExistButNotThisId (83)	IC_SUSPEND_EXIST_BUT_NOT_THIS_ID
CallIdInUse (84)	IC_CALL_ID_IN_USE
NoCallSuspended (85)	IC_NO_CALL_SUSPENDED
CallIdHasBeenCleared (86)	IC_CALL_ID_HAS_BEEN_CLEARED
IncompatibleDest (88)	IC_INCOMPATIBLE_DEST
InvalidTNS (91)	IC_INVALID_TNS
InvalidMsgUnspec (95)	IC_INVALID_MSG_UNSPEC
MandatoryElementMissing (96)	IC_MANDATORY_ELEMENT_MISSING
MsgTypeNotImp (97)	IC_MSG_TYPE_NOT_IMP
MsgTypeNotImpOrWrongState (98)	IC_MSG_TYPE_NOT_IMP_OR_WRONG_STATE
ElemTypeNotImp (99)	IC_ELEM_TYPE_NOT_IMP
InvalidElemContents (100)	IC_INVALID_ELEM_CONTENTS
MsgInWrongState (101)	IC_MSG_IN_WRONG_STATE
RecoveryOnTimerExpiry (102)	IC_RECOVERY_ON_TIMER_EXPIRY
ProtocolErrorUnspec (111)	IC_PROTOCOL_ERROR_UNSPEC
InterworkUnspec (127)	IC_INTERWORK_UNSPEC

AT&T TR41459 Specific Causes

CallingPartyOffHold (2)	IC_CALLING_PARTY_OFF_HOLD
CallingDroppedWhileOnHold (3)	IC_CALLING_DROPPED_WHILE_ON_HOLD
NewDestination (47)	IC_NEW_DESTINATION
OutgoingCallsBarred (52)	IC_OUTGOING_CALLS_BARRED
IncomingCallsBarred (54)	IC_INCOMING_CALLS_BARRED

BELL1268 Specific Causes

VacantCode (4)	IC_VACANT_CODE
Prefix0DialledInError (8)	IC_PREFIX_0_DIALLED_IN_ERROR
Prefix1DialledInError (9)	IC_PREFIX_1_DIALLED_IN_ERROR
Prefix1NotDialled (10)	IC_PREFIX_1_NOT_DIALLED
ExcessiveDigCallProceeding (11)	IC_EXCESSIVE_DIG_CALL_PROCEEDING
ProtErrThresholdExceeded (101)	IC_PROT_ERR_THRESHOLD_EXCEEDED

INS1500 Specific Causes

SendSpecialInformationTone (4)	IC_SPECIAL_INFORMATION_TONE
MisDialledTrunkPrefix (5)	IC_MISDIALLED_TK_PREFIX
Preemption (8)	IC_PREEMPTION
PreemptionCircuitReserved (9)	IC_PREEMPTION_CCT_RES
SubscriberAbsent (20)	IC_SUB_ABSCENT
PermFrameModeOOS (39)	IC_PERMANENT_FRAME_MODE_OOS
PermFrameModeOperational (40)	IC_PERMANENT_FRAME_MODE_OPERATIONAL
PrecedenceCallBlocked (46)	IC_PRECEDENCE_BLOCKED
OutgoingCallsBarredWithinCUG (53)	IC_OUTGOING_CALLS_BARRED_IN_CUG
IncomingCallsBarredWithinCUG (55)	IC_INCOMING_CALLS_BARRED_IN_CUG
InconsistencyInOGAccess (62)	IC_INCON_OUTGOING_ACC_AND_SUB_CLASS
UserNotMemberOfCUG (87)	IC_USER_NOT_MEMBER_OF_CUG
NonExistentCUG (90)	IC_NON_EXISTENT_CUG
ParameterNonExistentPassedOn (103)	IC_PARAM_UNREC_PASSED
MsgWithUnreqParamDiscarded (110)	IC_MESG_WITH_UNREC_ELEM_DISCARDED

Internal to PRI Cause Mappings

This table shows the mapping performed if the cause is supported by the protocol variant. If the cause is not supported by the protocol variant (that is, the particular variants column is not checked), or there is no transmitted cause value listed, the cause value Normal-Unspecified (31) is transmitted.

Variants are: A – ETSI 300-102, B – ETSI 300-172 (QSIG), C – AT&T TR41459, D – Bell, E – INSNET

Internal Cause Mnemonic	Transmitted PRI Cause	A	B	C	D	E
IC_ACCESS_INFO_DISCARDED	AccessInfoDiscarded	X			X	X
IC_BEARCAP_NOT_AUTHORIZED	BearCapNotAuthorized	X	X		X	X
IC_BEARCAP_NOT_AVAIL	BearCapNotAvail	X	X	X		X
IC_BEARCAP_NOT_IMP	BearCapNotImp	X	X	X	X	X
IC_CALL_AWARDED_DELIVERED_EST_CH	CallAwardedDeliveredEstCh	X			X	X
IC_CALL_ID_HAS_BEEN_CLEARED	CallIdHasBeenCleared	X				X
IC_CALL_ID_IN_USE	CallIdInUse	X				X
IC_CALL_REJECTED	CallRejected	X	X	X	X	X
IC_CH_ID_NOT_EXIST	ChIdNotExist	X	X	X		X
IC_CH_TYPE_NOT_IMP	ChTypeNotImp	X	X	X		X
IC_CH_UNACCEPTABLE	ChUnacceptable	X	X	X	X	X
IC_DEST_OUT_OF_ORDER	DestOutOfOrder	X	X			X
IC_ELEM_TYPE_NOT_IMP	ElemTypeNotImp	X	X	X	X	X
IC_FACILITY_REJECTED	FacilityRejected	X		X		X
IC_INCOMPATIBLE_DEST	IncompatibleDest	X	X	X	X	X
IC_INTERWORK_UNSPEC	InterworkUnspec	X		X	X	X
IC_INVALID_CALL_REFERENCE_VALUE	InvalidCallReferenceValue	X	X	X	X	X
IC_INVALID_ELEM_CONTENTS	InvalidElemContents	X	X	X	X	X
IC_INVALID_MSG_UNSPEC	InvalidMsgUnspec	X				X
IC_INVALID_NUMBER_FORMAT	InvalidNumberFormat	X	X	X	X	X
IC_INVALID_TNS	InvalidTNS	X				X
IC_MANDATORY_ELEMENT_MISSING	MandatoryElementMissing	X	X	X	X	X
IC_MSG_IN_WRONG_STATE	MsgInWrongState	X	X		X	X
IC_MSG_TYPE_NOT_IMP	MsgTypeNotImp	X	X	X	X	X
IC_MSG_TYPE_NOT_IMP_OR_WRONG_STATE	MsgTypeNotImpOrWrongState	X	X	X		X
IC_NETWORK_OUT_OF_ORDER	NetworkOutOfOrder	X				X
IC_NO_CALL_SUSPENDED	NoCallSuspended	X				X
IC_NO_ANSWER_ALERTED_USER	NoAnswerAlertedUser	X	X	X	X	X
IC_NO_CIRCUIT_AVAILABLE	NoCircuitAvailable	X	X	X	X	X
IC_NON_SELECTED_USER_CLEARING	NonSelectedUserClearing	X				X

Internal Cause Mnemonic	Transmitted PRI Cause	A	B	C	D	E
IC_NORMAL_CLEARING	NormalClearing	X	X	X	X	X
IC_NORMAL_UNSPECIFIED	NormalUnspecified	X	X	X	X	X
IC_NO_ROUTE_TO_DEST	NoRouteToDest	X	X		X	X
IC_NO_ROUTE_TO_TNS	NoRouteToTNS	X			X	X
IC_NO_USER_RESPONDING	NoUserResponding	X	X	X	X	X
IC_NUMBER_CHANGED	NumberChanged	X	X	X		X
IC_ONLY_RESTRICT_DIG_INFO_BEARER	OnlyRestrictDigInfoBearer	X				X
IC_PROTOCOL_ERROR_UNSPEC	ProtocolErrorUnspec	X	X		X	X
IC_QUALITY_UNAVAIL	QualityUnavail	X				X
IC_RECOVERY_ON_TIMER_EXPIRY	RecoveryOnTimerExpiry	X	X	X	X	X
IC_REQ_CIRCUIT_UNAVAIL	ReqCircuitUnavail	X	X	X	X	X
IC_REQ_FACILITY_NOT_IMP	ReqFacilityNotImp	X		X		X
IC_REQ_FACILITY_NOT_SUBSCR	ReqFacilityNotSubscr	X		X		X
IC_RESOURCES_UNAVAIL_UNSPEC	ResourcesUnavailUnspec	X				X
IC_RESPONSE_TO_STATUS_ENQUIRY	ResponseToStatusEnquiry	X	X	X	X	X
IC_SERVICE_OR_OPTION_NOT_IMP_UNSPEC	ServiceOrOptionNotImpUnspec	X				X
IC_SERVICE_OR_OPTION_NOT_AVAIL	ServiceOrOptionNotAvail	X	X	X		X
IC_SUSPEND_EXIST_BUT_NOT_THIS_ID	SuspendExistButNotThisId	X				X
IC_SWITCHING_EQUIP_CONGESTION	SwitchingEquipCongestion	X		X	X	X
IC_TEMPORARY_FAILURE	TemporaryFailure	X	X	X	X	X
IC_UNALLOCATED_NUMBER	UnallocatedNumber	X	X	X	X	X
IC_USER_BUSY	UserBusy	X	X	X	X	X
IC_ACCESS_BARRED	NormalClearing	X	X	X	X	X
IC_ACKNOWLEDGEMENT	NormalClearing	X	X	X	X	X
IC_ADDRESS_INCOMPLETE	InvalidNumberFormat	X	X		X	X
	NormalClearing			X		
IC_BUSY	UserBusy	X	X	X	X	X
IC_CHANNEL_OUT_OF_SERVICE	TemporaryFailure	X	X	X	X	X
IC_DTE_CONTROLLED_NOT_READY	NormalClearing	X	X	X	X	X
IC_CONGESTION	NoCircuitAvailable	X	X	X	X	X
IC_CALL_TERMINATION	NormalClearing	X	X	X	X	X
IC_FACILITY_NOT_REGISTERED	NormalClearing	X	X	X	X	X
IC_INCOMING_CALLS_BARRED	CallRejected	X	X		X	X
	IncomingCallsBarred			X		
IC_SERVICE_INCOMPATIBLE	BearCapNotImp	X	X	X	X	X
IC_MESSAGE_NOT_UNDERSTOOD	NormalClearing	X	X	X	X	X
IC_NETWORK_ADDRESS_EXTENSION_ERROR	NormalClearing	X	X	X	X	X

Internal Cause Mnemonic	Transmitted PRI Cause	A	B	C	D	E
IC_NETWORK_TERMINATION	NormalUnspecified	X	X	X	X	X
IC_NUMBER_UNOBTAINABLE	UnallocatedNumber	X	X	X	X	X
IC_PRIORITY_FORCED_RELEASE	NormalClearing	X	X	X	X	X
IC_REJECT	NormalClearing	X	X	X	X	X
IC_ROUTE_OUT_OF_SERVICE	NetworkOutOfOrder	X	X			X
	SwitchingEquipCongestion			X		
	DestOutOfOrder				X	
IC_SUBSCRIBER_INCOMPATIBLE	IncompatibleDest	X	X	X	X	X
IC_SIGNAL_NOT_UNDERSTOOD	NormalClearing	X	X	X	X	X
IC_SIGNAL_NOT_VALID	NormalClearing	X	X	X	X	X
IC_SUBSCRIBER_OUT_OF_SERVICE	DestOutOfOrder	X	X		X	X
	SwitchingEquipCongestion			X		
IC_SIGNALLING_SYSTEM_INCOMPATIBLE	NormalClearing	X	X	X	X	X
IC_SERVICE_TEMPORARILY_UNAVAILABLE	NormalClearing	X	X	X	X	X
IC_SERVICE_UNAVAILABLE	NormalClearing	X	X	X	X	X
IC_DTE_UNCONTROLLED_NOT_READY	NormalClearing	X	X	X	X	X
IC_TRANSFERRED						
IC_INCOMING_CALLS_BARRED_IN_CUG	IncomingCallsBarredWithinCUG					X
IC_SPECIAL_INFORMATION_TONE	SendSpecialInformationTone					X
IC_USER_NOT_MEMBER_OF_CUG	UserNotMemberOfCUG					X
IC_MISDIALLED_TK_PREFIX	MisDialedTrunkPrefix					X
IC_PARAM_UNREC_PASSED	ParameterNonExistentPassedOn					X
IC_PROPRIETARY						
IC_PREEMPTION	Preemption					X
IC_PREEMPTION_CCT_UNAVAILABLE	PreemptionCircuitReserved					X
IC_UNALLOCATED_DEST_NUMBER						
IC_UNREC_ELEM_PASSED_ON						
IC_SUB_ABSCENT	SubscriberAbsent					X
IC_UNDEFINED_BG						
IC_ROUTING_ERROR						
IC_PRECEDENCE_BLOCKED	PrecedenceCallBlocked					X
IC_CALL_TYPE_INCOMPATIBLE						
IC_GROUP_RESTRICIONS						
IC_CALLING_PARTY_OFF_HOLD	CallingPartyOffHold			X		
IC_CALLING_DROPPED_WHILE_ON_HOLD	CallingDroppedWhileOnHold			X		
IC_NEW_DESTINATION	NewDestination			X		
IC_OUTGOING_CALLS_BARRED	OutgoingCallsBarred			X		

Internal Cause Mnemonic	Transmitted PRI Cause	A	B	C	D	E
IC_SUB_CONTROLLED_ICB						
IC_CALL_REJECT_CALL_GAPPING						
IC_REJECTED_DIVERTED_CALL						
IC_SELECTIVE_CALL_BARRING						
IC_REMOTE_PROC_ERROR						
IC_TEMPORARY_OOS						
IC_OPERATOR_PRIORITY_ACCESS						
IC_CUG_ACCESS_BARRED						
IC_SUBSCRIBER_CALL_TERMINATE	NormalClearing	X	X	X	X	X
IC_FLOW_CONTROLLED_CONGESTION						
IC_OUT_OF_CATCHMENT_AREA						
IC_TRANSLATION_OOS						
IC_PERMANENT_ICB						
IC_SUBSCRIBER_MOVED						
IC_SUB_NOT_FOUND_DLE						
IC_ANONYMOUS_CALL_REJECTION						
IC_TERMINAL_CONGESTION						
IC_REPEAT_ATTEMPT						
IC_VACENT_CODE						
IC_PREFIX_0_DIALLED_IN_ERROR						
IC_PREFIX_1_DIALLED_IN_ERROR						
IC_PREFIX_1_NOT_DIALLED						
IC_EXCESSIVE_DIG_CALL_PROCEEDING						
IC_PROT_ERR_THRESHOLD_EXCEEDED						
IC_OUTGOING_CALLS_BARRED_IN_CUG	OutgoingCallsBarredWithinCUG					X
IC_INCON_OUTGOING_ACC_AND_SUB_CLASS	InconsistencyInOGAccess					X
IC_NON_EXISTENT_CUG	NonExistentCUG					X
IC_MESG_WITH_UNREC_ELEM_DISCARDED	MsgWithUnreqParamDiscarded					X
IC_PREEMPTION_CCT_RES						
IC_PERMANENT_FRAME_MODE_OOS	PermFrameModeOOS					X
IC_PERMANENT_FRAME_MODE_OPERATIONAL	PermFrameModeOperational					X
IC_BLACKLIST_NO_CLI	ServiceOrOptionNotAvail	X	X	X	X	X
IC_BLACKLIST_CLI_LENGTH_INVALID	ServiceOrOptionNotAvail	X	X	X	X	X
IC_BLACKLIST_CLI_MATCHED	ServiceOrOptionNotAvail	X	X	X	X	X
IC_BLACKLIST_CPC_RESTRICTED	ServiceOrOptionNotAvail	X	X	X	X	X
IC_BLACKLIST_NOA_RESTRICTED	ServiceOrOptionNotAvail	X	X	X	X	X
IC_BLACKLIST_BNUMBER_MATCHED	ServiceOrOptionNotAvail	X	X	X	X	X

Q.761 Cause Mappings

Internal Cause Mnemonic	Transmitted PRI Cause	A	B	C	D	E
IC_WHITELIST_CLI_NOT_MATCHED						
IC_PORTED_NUMBER						
IC_REDIRECTION_TO_NEW_DEST						
IC_COT_FAILURE						
IC_UNKNOWN						

Q.761 Cause Mappings

Q.761 to Internal Cause Mappings

Received Q.761 Cause	Internal Mapping
UNALLOCATED_NUM (1)	IC_UNALLOCATED_NUMBER
NO_ROUTE_TO_TRANSIT (2)	IC_NO_ROUTE_TO_TNS
NO_ROUTE_TO_DEST (3)	IC_NO_ROUTE_TO_DEST
SEND_SIT (4)	IC_SPECIAL_INFORMATION_TONE
MISDIALLED_TK_PREFIX (5)	IC_MISDIALLED_TK_PREFIX
NORMAL_REL (16)	IC_NORMAL_CLEARING
USER_BUSY (17)	IC_USER_BUSY
NO_RESPONSE (18)	IC_NO_USER_RESPONDING
NO_ANSWER (19)	IC_NO_ANSWER_ALERTED_USER
CALL_REJECTED (21)	IC_CALL_REJECTED
NUMBER_CHANGED (22)	IC_NUMBER_CHANGED
DEST_OOO (27)	IC_DEST_OUT_OF_ORDER
ADDRESS_INCOMP (28)	IC_ADDRESS_INCOMPLETE
FAC_REJECTED (29)	IC_FACILITY_NOT_REGISTERED
NORMAL_UNSPEC (31)	IC_NORMAL_UNSPECIFIEDDEFAULT
NO_CIRCUIT (34)	IC_NO_CIRCUIT_AVAILABLE
NETWORK_OOO (38)	IC_NETWORK_OUT_OF_ORDER
TEMP_FAILURE (41)	IC_TEMPORARY_FAILURE
SWITCH_CONG (42)	IC_SWITCHING_EQUIP_CONGESTION
ACCESS_INFO_DISCARD (43)	IC_ACCESS_INFO_DISCARDED
CHAN_NOT_AVAIL (44)	IC_REQ_CIRCUIT_UNAVAIL
RES_UNAVAIL (47)	IC_RESOURCES_UNAVAIL_UNSPEC
BC_NOT_AUTH (57)	IC_BEARCAP_NOT_AUTHORIZED
BC_NOT_AVAIL (58)	IC_BEARCAP_NOT_AVAIL

Received Q.761 Cause	Internal Mapping
SERV_NOT_AVAIL (63)	IC_SERVICE_OR_OPTION_NOT_AVAIL
BC_NOT_IMP (65)	IC_BEARCAP_NOT_IMP
REQ_FAC_NOT_IMP (69)	IC_REQ_FACILITY_NOT_IMP
RES_DIG_BEARCAP_ONLY (7)	IC_ONLY_RESTRICT_DIG_INFO_BEARER
SERV_NOT_IMP (79)	IC_SERVICE_OR_OPTION_NOT_IMP_UNSPEC
INCOMP_DEST (88)	IC_INCOMPATIBLE_DEST
INVALID_TNS (91)	IC_INVALID_TNS
INVALID_MESSAGE (95)	IC_INVALID_MSG_UNSPEC
MSG_NOT_EXIST (97)	IC_MSG_TYPE_NOT_IMP
ELEM_UNREC_DISCARDED (99)	IC_ELEM_TYPE_NOT_IMP
PARAM_UNREC_PASSED (103)	IC_PARAM_UNREC_PASSED
MSG_UNREC_ELEM_DIS (110)	IC_MESG_WITH_UNREC_ELEM_DISCARDED
PROT_ERROR_UNSP (111)	IC_PROTOCOL_ERROR_UNSPEC
INTERWORK_UNSP (127)	IC_INTERWORK_UNSPEC

Internal to Q.761 Cause Mappings

A – Standard Q.761, B – Australian Q.761, C – Finnish Q.761

Internal Cause Mnemonic	Transmitted Q.761 Cause	A	B	C	D	E
IC_ACCESS_INFO_DISCARDED	AccessInfoDiscarded	X	X			
IC_BEARCAP_NOT_AUTHORIZED	BearCapNotAuthorized	X	X	X		
IC_BEARCAP_NOT_AVAIL	BearCapNotAvail	X	X	X		
IC_BEARCAP_NOT_IMP	BearCapNotImp	X	X	X		
IC_CALL_AWARDED_DELIVERED_EST_CH	TemporaryFailure	X	X	X		
IC_CALL_ID_HAS_BEEN_CLEARED	TemporaryFailure	X	X	X		
IC_CALL_ID_IN_USE	TemporaryFailure	X	X	X		
IC_CALL_REJECTED	CallRejected	X	X	X		
IC_CH_ID_NOT_EXIST	InterworkUnspec	X	X	X		
IC_CH_TYPE_NOT_IMP	InterworkUnspec	X	X	X		
IC_CH_UNACCEPTABLE	TemporaryFailure	X	X	X		
IC_DEST_OUT_OF_ORDER	DestOutOfOrder	X	X	X		
IC_ELEM_TYPE_NOT_IMP	ElemUnrecDiscarded	X	X	X		
IC_FACILITY_REJECTED	ServNotAvail	X		X		
	FacilityReected		X			
IC_INCOMPATIBLE_DEST	IncompatibleDest	X	X	X		
IC_INTERWORK_UNSPEC	InterworkUnspec	X	X	X		

Q.761 Cause Mappings

Internal Cause Mnemonic	Transmitted Q.761 Cause	A	B	C	D	E
IC_INVALID_CALL_REFERENCE_VALUE	TemporaryFailure	X	X	X		
IC_INVALID_ELEM_CONTENTS	MsgUnrecElementDiscarded	X	X			
IC_INVALID_MSG_UNSPEC	InvalidMessage	X	X	X		
IC_INVALID_NUMBER_FORMAT	AddressIncomplete	X	X	X		
IC_INVALID_TNS	InvalidTNS	X		X		
	NoRouteToDestination		X			
IC_MANDATORY_ELEMENT_MISSING	ProtocolErrorUnspecified	X	X	X		
IC_MSG_IN_WRONG_STATE	ProtocolErrorUnspecified	X	X	X		
IC_MSG_TYPE_NOT_IMP	MsgNotExist	X	X	X		
IC_MSG_TYPE_NOT_IMP_OR_WRONG_STATE	ProtocolErrorUnspecified	X	X	X		
IC_NETWORK_OUT_OF_ORDER	NetworkOutOfOrder	X	X	X		
IC_NO_CALL_SUSPENDED	TemporaryFailure	X	X	X		
IC_NO_ANSWER_ALERTED_USER	NoAnswer	X	X	X		
IC_NO_CIRCUIT_AVAILABLE	NoCircuit	X	X	X		
IC_NON_SELECTED_USER_CLEARING	NormalUnspecified	X	X	X		
IC_NORMAL_CLEARING	NormalRelease	X	X	X		
IC_NORMAL_UNSPECIFIED	NormalUnspecified	X	X	X		
IC_NO_ROUTE_TO_DEST	NoRouteToDest	X	X			
IC_NO_ROUTE_TO_TNS	NoRouteToTransit	X		X		
IC_NO_USER_RESPONDING	NoResponse	X	X	X		
IC_NUMBER_CHANGED	NumberChanged	X	X	X		
IC_ONLY_RESTRICT_DIG_INFO_BEARER	RestrictedDigitalBearerCapOnly	X		X		
IC_PROTOCOL_ERROR_UNSPEC	ProtocolErrorUnspecified	X	X	X		
IC_QUALITY_UNAVAIL	NormalUnspecified	X	X	X		
IC_RECOVERY_ON_TIMER_EXPIRY	TemporaryFailure	X	X	X		
IC_REQ_CIRCUIT_UNAVAIL	ChannelNotAvailable	X	X	X		
IC_REQ_FACILITY_NOT_IMP	ReqFacilityNotImp	X		X		
	ServiceNotImp		X			
IC_REQ_FACILITY_NOT_SUBSCR	ServiceNotAvailable	X	X	X		
IC_RESOURCES_UNAVAIL_UNSPEC	ResourcesUnavailable	X	X	X		
IC_RESPONSE_TO_STATUS_ENQUIRY	NormalUnspecified	X	X	X		
IC_SERVICE_OR_OPTION_NOT_IMP_UNSPEC	ServiceNotImplemented	X	X	X		
IC_SERVICE_OR_OPTION_NOT_AVAIL	ServiceNotAvailable	X	X	X		
IC_SUSPEND_EXIST_BUT_NOT_THIS_ID	TemporaryFailure	X	X	X		
IC_SWITCHING_EQUIP_CONGESTION	SwitchCongestion	X	X	X		
IC_TEMPORARY_FAILURE	TemporaryFailure	X	X	X		
IC_UNALLOCATED_NUMBER	UnallocatedNumber	X	X	X		

Internal Cause Mnemonic	Transmitted Q.761 Cause	A	B	C	D	E
IC_USER_BUSY	UserBusy	X	X	X		
IC_ACCESS_BARRED	NormalRelease	X	X	X		
IC_ACKNOWLEDGEMENT	NormalRelease	X	X	X		
IC_ADDRESS_INCOMPLETE	AddressIncomplete	X	X	X		
IC_BUSY	UserBusy	X	X	X		
IC_CHANNEL_OUT_OF_SERVICE	NetworkOutOfOrder	X	X	X		
IC_DTE_CONTROLLED_NOT_READY	NormalUnspecified	X	X	X		
IC_CONGESTION	SwitchCongestion	X	X	X		
IC_CALL_TERMINATION	NormalRelease	X	X	X		
IC_FACILITY_NOT_REGISTERED	FacilityRejected	X	X	X		
IC_INCOMING_CALLS_BARRED	CallRejected	X	X	X		
IC_SERVICE_INCOMPATIBLE	ServiceNotAvailable	X	X	X		
IC_MESSAGE_NOT_UNDERSTOOD	ProtocolErrorUnspecified	X	X	X		
IC_NETWORK_ADDRESS_EXTENSION_ERROR	NormalUnspecified	X	X	X		
IC_NETWORK_TERMINATION	NormalUnspecified	X	X	X		
IC_NUMBER_UNOBTAINABLE	UnallocatedNumber	X	X	X		
IC_PRIORITY_FORCED_RELEASE	NormalUnspecified	X	X	X		
IC_REJECT	NormalUnspecified	X	X	X		
IC_ROUTE_OUT_OF_SERVICE	NetworkOutOfOrder	X	X	X		
IC_SUBSCRIBER_INCOMPATIBLE	IncompatibleDest	X	X	X		
IC_SIGNAL_NOT_UNDERSTOOD	ProtocolErrorUnspecified	X	X	X		
IC_SIGNAL_NOT_VALID	ProtocolErrorUnspecified	X	X	X		
IC_SUBSCRIBER_OUT_OF_SERVICE	DestOutOfOrder	X	X	X		
IC_SIGNALLING_SYSTEM_INCOMPATIBLE	InterworkingUnspecified	X	X	X		
IC_SERVICE_TEMPORARILY_UNAVAILABLE	ServiceNotAvailable	X	X	X		
IC_SERVICE_UNAVAILABLE	ServiceNotAvailable	X	X	X		
IC_DTE_UNCONTROLLED_NOT_READY	NormalUnspecified	X	X	X		
IC_TRANSFERRED						
IC_INCOMING_CALLS_BARRED_IN_CUG	CallRejected	X	X	X		
IC_SPECIAL_INFORMATION_TONE	NormalUnspecified	X	X			
	SendSIT			X		
IC_USER_NOT_MEMBER_OF_CUG	CallRejected	X	X	X		
IC_MISDIALLED_TK_PREFIX	MisDialedTrunkPrefix	X	X	X		
IC_PARAM_UNREC_PASSED	ParameterUnrecPassed	X	X			
IC_PROPRIETARY	NormalRelease	X	X	X		
IC_PREEMPTION	NormalUnspecified	X	X	X		
IC_PREEMPTION_CCT_UNAVAILABLE	NoCircuit	X	X	X		

Q.761 Cause Mappings

Internal Cause Mnemonic	Transmitted Q.761 Cause	A	B	C	D	E
IC_UNALLOCATED_DEST_NUMBER						
IC_UNREC_ELEM_PASSED_ON	ParameterUnrecPassed	X	X			
IC_SUB_ABSCENT	NoResponse	X	X	X		
IC_UNDEFINED_BG	UnallocatedNumber	X	X	X		
IC_ROUTING_ERROR	NoRouteToDestination	X	X			
IC_PRECEDENCE_BLOCKED	NoRouteToDestination	X	X			
IC_CALL_TYPE_INCOMPATIBLE	CallRejected	X	X	X		
IC_GROUP_RESTRICIONS	CallRejected	X	X	X		
IC_CALLING_PARTY_OFF_HOLD	NormalUnspecified	X	X	X		
IC_CALLING_DROPPED_WHILE_ON_HOLD	NormalRelease	X	X	X		
IC_NEW_DESTINATION	NormalUnspecified	X	X	X		
IC_OUTGOING_CALLS_BARRED	CallRejected	X	X	X		
IC_SUB_CONTROLLED_ICB	CallRejected	X	X	X		
IC_CALL_REJECT_CALL_GAPPING	CallRejected	X	X	X		
IC_REJECTED_DIVERTED_CALL	CallRejected	X	X	X		
IC_SELECTIVE_CALL_BARRING	CallRejected	X	X	X		
IC_REMOTE_PROC_ERROR	TemporaryFailure	X	X	X		
IC_TEMPORARY_OOS	UnallocatedNumber	X	X	X		
IC_OPERATOR_PRIORITY_ACCESS	NormalUnspecified	X	X	X		
IC_CUG_ACCESS_BARRED	CallRejected	X	X	X		
IC_SUBSCRIBER_CALL_TERMINATE	NormalRelease	X	X	X		
IC_FLOW_CONTROLLED_CONGESTION	SwitchCongestion	X	X	X		
IC_OUT_OF_CATCHMENT_AREA	NoResponse	X	X	X		
IC_TRANSLATION_OOS	UnallocatedNumber	X	X	X		
IC_PERMANENT_ICB	CallRejected	X	X	X		
IC_SUBSCRIBER_MOVED	NoResponse	X	X	X		
IC_SUB_NOT_FOUND_DLE	UnallocatedNumber	X	X	X		
IC_ANONYMOUS_CALL_REJECTION	CallRejected	X	X	X		
IC_TERMINAL_CONGESTION	SwitchCongestion	X	X	X		
IC_REPEAT_ATTEMPT						
IC_VACENT_CODE	UnallocatedNumber	X	X	X		
IC_PREFIX_0_DIALLED_IN_ERROR	NormalUnspecified	X	X	X		
IC_PREFIX_1_DIALLED_IN_ERROR	NormalUnspecified	X	X	X		
IC_PREFIX_1_NOT_DIALLED	NormalUnspecified	X	X	X		
IC_EXCESSIVE_DIG_CALL_PROCEEDING	NormalUnspecified	X	X	X		
IC_PROT_ERR_THRESHOLD_EXCEEDED	ProtocolErrorUnspecified	X	X	X		
IC_OUTGOING_CALLS_BARRED_IN_CUG	CallRejected	X	X	X		

Internal Cause Mnemonic	Transmitted Q.761 Cause	A	B	C	D	E
IC_INCON_OUTGOING_ACC_AND_SUB_CLASS	InterworkingUnspecified	X	X			
	InconOutAccSub			X		
IC_NON_EXISTENT_CUG	CallRejected	X	X	X		
IC_MESG_WITH_UNREC_ELEM_DISCARDED	MsgUnrecognisedElementDiscarded	X	X			
IC_PREEMPTION_CCT_RES	NormalUnspecified	X	X	X		
IC_PERMANENT_FRAME_MODE_OOS						
IC_PERMANENT_FRAME_MODE_OPERATIONAL						
IC_BLACKLIST_NO_CLI						
IC_BLACKLIST_CLI_LENGTH_INVALID						
IC_BLACKLIST_CLI_MATCHED						
IC_BLACKLIST_CPC_RESTRICTED						
IC_BLACKLIST_NOA_RESTRICTED						
IC_BLACKLIST_BNUMBER_MATCHED						
IC_WHITELIST_CLI_NOT_MATCHED						
IC_PORTED_NUMBER						
IC_REDIRECTION_TO_NEW_DEST						
IC_COT_FAILURE						
IC_UNKNOWN						

ANSI-SS7

ANSI SS7 to Internal Cause Mappings

Received ANSI SS7 Cause (CCITT Coding Standard)	Internal Mapping
UNALLOCATED_NUM (1)	IC_UNALLOCATED_NUMBER
NO_ROUTE_TO_TRANSIT (2)	IC_NO_ROUTE_TO_TNS
NO_ROUTE_TO_DEST (3)	IC_NO_ROUTE_TO_DEST
SEND_SIT (4)	IC_SPECIAL_INFORMATION_TONE
MISDIALLED_TRUNK_PREFIX (5)	IC_NORMAL_UNSPECIFIED
PREEMPTION (8)	IC_PREEMPTION
NORMAL_REL (16)	IC_NORMAL_CLEARING
USER_BUSY (17)	IC_USER_BUSY
NO_RESPONSE (18)	IC_NO_USER_RESPONDING
NO_ANSWER (19)	IC_NO_ANSWER_ALERTED_USER
SUB_ABSCENT (20)	IC_SUB_ABSCENT

Received ANSI SS7 Cause (CCITT Coding Standard)	Internal Mapping
CALL_REJECTED (21)	IC_CALL_REJECTED
NUMBER_CHANGED (22)	IC_NUMBER_CHANGED
DEST_OOO (27)	IC_DEST_OUT_OF_ORDER
ADDRESS_INCOMP (28)	IC_ADDRESS_INCOMPLETE
FAC_REJECTED (29)	IC_FACILITY_REJECTED
NORMAL_UNSPEC (31)	IC_NORMAL_UNSPECIFIED
NO_CIRCUIT (34)	IC_NO_CIRCUIT_AVAILABLE
NETWORK_OOO (38)	IC_NETWORK_OUT_OF_ORDER
TEMP_FAILURE (41)	IC_TEMPORARY_FAILURE
SWITCH_CONG (42)	IC_SWITCHING_EQUIP_CONGESTION
ACCESS_INFO_DISCARD (43)	IC_ACCESS_INFO_DISCARDED
CHAN_NOT_AVAIL (44)	IC_REQ_CIRCUIT_UNAVAIL
PRECEDENCE_BLOCKED (46)	IC_PRECEDENCE_BLOCKED
RES_UNAVAIL (47)	IC_RESOURCES_UNAVAIL_UNSPEC
FACILITY_NOT_SUBSC (50)	IC_REQ_FACILITY_NOT_SUBSCR
OUT_CALLS_BARRED (53)	IC_SERVICE_OR_OPTION_NOT_AVAIL
IN_CALLS_BARRED (55)	IC_SERVICE_OR_OPTION_NOT_AVAIL
BC_NOT_AUTH (57)	IC_BEARCAP_NOT_AUTHORIZED
BC_NOT_AVAIL (58)	IC_BEARCAP_NOT_AVAIL
SERV_NOT_AVAIL (63)	IC_SERVICE_OR_OPTION_NOT_AVAIL
BC_NOT_IMP (65)	IC_BEARCAP_NOT_IMP
FAC_NOT_IMP (69)	IC_REQ_FACILITY_NOT_IMP
RES_DIG_BEARCAP_ONLY (70)	IC_ONLY_RESTRICT_DIG_INFO_BEARER
SERV_NOT_IMP (79)	IC_SERVICE_OR_OPTION_NOT_IMP_UNSPEC
NOT_MEMBER_CUG (87)	IC_INVALID_MSG_UNSPEC
INCOMP_DEST (88)	IC_INCOMPATIBLE_DEST
NON_EXISTENT_CUG (90)	IC_INVALID_MSG_UNSPEC
INVALID_TNS (91)	IC_INVALID_TNS
INVALID_MESSAGE (95)	IC_INVALID_MSG_UNSPEC
MSG_NOT_EXIST (97)	IC_MSG_TYPE_NOT_IMP
ELEM_UNREC_DISCARDED (99)	IC_ELEM_TYPE_NOT_IMP
PARAM_WITH_INVALID_CODING (100)	IC_INVALID_ELEM_CONTENTS
RECOVERY_ONTIMER (102)	IC_RECOVERY_ON_TIMER_EXPIRY
PARAM_UNREC_PASSED (103)	IC_UNREC_ELEM_PASSED_ON
MSG_UNREC_PARAM_DISC (110)	IC_INVALID_ELEM_CONTENTS
PROT_ERROR_UNSP (111)	IC_PROTOCOL_ERROR_UNSPEC
INTERWORK_UNSP (127)	IC_INTERWORK_UNSPEC

Internal to ANSI SS7 Cause Mapping

Internal Cause Mnemonic	Transmitted ANSI SS7 Cause
IC_ACCESS_INFO_DISCARDED	ACCESS_INFO_DISCARD
IC_BEARCAP_NOT_AUTHORIZED	BC_NOT_AUTH
IC_BEARCAP_NOT_AVAIL	BC_NOT_AVAIL
IC_BEARCAP_NOT_IMP	BC_NOT_IMP
IC_CALL_AWARDED_DELIVERED_EST_CH	TEMP_FAILURE
IC_CALL_ID_HAS_BEEN_CLEARED	TEMP_FAILURE
IC_CALL_ID_IN_USE	TEMP_FAILURE
IC_CALL_REJECTED	CALL_REJECTED
IC_CH_ID_NOT_EXIST	INTERWORK_UNSP
IC_CH_TYPE_NOT_IMP	INTERWORK_UNSP
IC_CH_UNACCEPTABLE	TEMP_FAILURE
IC_DEST_OUT_OF_ORDER	DEST_OOO
IC_ELEM_TYPE_NOT_IMP	ELEM_UNREC_DISCARDED
IC_FACILITY_REJECTED	FAC_REJECTED
IC_INCOMPATIBLE_DEST	INCOMP_DEST
IC_INTERWORK_UNSPEC	INTERWORK_UNSP
IC_INVALID_CALL_REFERENCE_VALUE	TEMP_FAILURE
IC_INVALID_ELEM_CONTENTS	MSG_UNREC_PARAM_DISCARDED
IC_INVALID_MSG_UNSPEC	INVALID_MESSAGE
IC_INVALID_NUMBER_FORMAT	ADDRESS_INCOMPLETE
IC_INVALID_TNS	INVALID_TNS
IC_MANDATORY_ELEMENT_MISSING	PROT_ERROR_UNSPEC
IC_MSG_IN_WRONG_STATE	PROT_ERROR_UNSPEC
IC_MSG_TYPE_NOT_IMP	MSG_NOT_EXIST
IC_MSG_TYPE_NOT_IMP_OR_WRONG_STATE	PROT_ERROR_UNSPEC
IC_NETWORK_OUT_OF_ORDER	NETWORK_OOO
IC_NO_CALL_SUSPENDED	TEMP_FAILURE
IC_NO_ANSWER_ALERTED_USER	NO_ANSWER
IC_NO_CIRCUIT_AVAILABLE	NO_CIRCUIT
IC_NON_SELECTED_USER_CLEARING	NORMAL_UNSPEC
IC_NORMAL_CLEARING	NORMAL_REL
IC_NORMAL_UNSPECIFIED	NORMAL_UNSPEC
IC_NO_ROUTE_TO_DEST	NO_ROUTE_TO_DEST
IC_NO_ROUTE_TO_TNS	NO_ROUTE_TO_TRANSIT
IC_NO_USER_RESPONDING	NO_RESPONSE

Internal Cause Mnemonic	Transmitted ANSI SS7 Cause
IC_NUMBER_CHANGED	NUMBER_CHANGED
IC_ONLY_RESTRICT_DIG_INFO_BEARER	RES_DIG_BEARCAP_ONLY
IC_PROTOCOL_ERROR_UNSPEC	PROT_ERROR_UNSP
IC_QUALITY_UNAVAIL	NORMAL_UNSPEC
IC_RECOVERY_ON_TIMER_EXPIRY	RECOVERY_ONTIMER
IC_REQ_CIRCUIT_UNAVAIL	CHAN_NOT_AVAIL
IC_REQ_FACILITY_NOT_IMP	FAC_NOT_IMP
IC_REQ_FACILITY_NOT_SUBSCR	FACILITY_NOT_SUBSC
IC_RESOURCES_UNAVAIL_UNSPEC	RES_UNAVAIL
IC_RESPONSE_TO_STATUS_ENQUIRY	NORMAL_UNSPEC
IC_SERVICE_OR_OPTION_NOT_IMP_UNSPEC	SERV_NOT_IMP
IC_SERVICE_OR_OPTION_NOT_AVAIL	SERV_NOT_AVAIL
IC_SUSPEND_EXIST_BUT_NOT_THIS_ID	TEMP_FAILURE
IC_SWITCHING_EQUIP_CONGESTION	SWITCH_CONG
IC_TEMPORARY_FAILURE	TEMP_FAILURE
IC_UNALLOCATED_NUMBER	UNALLOCATED_NUM
IC_USER_BUSY	USER_BUSY
IC_ACCESS_BARRED	NORMAL_REL
IC_ACKNOWLEDGEMENT	NORMAL_REL
IC_ADDRESS_INCOMPLETE	ADDRESS_INCOMP
IC_BUSY	USER_BUSY
IC_CHANNEL_OUT_OF_SERVICE	NETWORK_OOO
IC_DTE_CONTROLLED_NOT_READY	NORMAL_UNSPEC
IC_CONGESTION	SWITCH_CONG
IC_CALL_TERMINATION	NORMAL_REL
IC_FACILITY_NOT_REGISTERED	FAC_REJECTED
IC_INCOMING_CALLS_BARRED	NORMAL_REL
IC_SERVICE_INCOMPATIBLE	SERV_NOT_AVAIL
IC_MESSAGE_NOT_UNDERSTOOD	PROT_ERROR_UNSPEC
IC_NETWORK_ADDRESS_EXTENSION_ERROR	NORMAL_UNSPEC
IC_NETWORK_TERMINATION	NORMAL_UNSPEC
IC_NUMBER_UNOBTAINABLE	UNALLOCATED_NUM
IC_PRIORITY_FORCED_RELEASE	NORMAL_UNSPEC
IC_REJECT	NORMAL_UNSPEC
IC_ROUTE_OUT_OF_SERVICE	NETWORK_OOO
IC_SUBSCRIBER_INCOMPATIBLE	NORMAL_UNSPEC
IC_SIGNAL_NOT_UNDERSTOOD	PROT_ERROR_UNSPEC

Internal Cause Mnemonic	Transmitted ANSI SS7 Cause
IC_SIGNAL_NOT_VALID	PROT_ERROR_UNSPEC
IC_SUBSCRIBER_OUT_OF_SERVICE	NORMAL_UNSPEC
IC_SIGNALLING_SYSTEM_INCOMPATIBLE	INTERWORK_UNSPEC
IC_SERVICE_TEMPORARILY_UNAVAILABLE	SERV_NOT_AVAIL
IC_SERVICE_UNAVAILABLE	SERV_NOT_AVAIL
IC_DTE_UNCONTROLLED_NOT_READY	NORMAL_UNSPEC
IC_TRANSFERRED	NORMAL_UNSPEC
IC_INCOMING_CALLS_BARRED_IN_CUG	NORMAL_UNSPEC
IC_SPECIAL_INFORMATION_TONE	SEND_SIT
IC_USER_NOT_MEMBER_OF_CUG	NORMAL_UNSPEC
IC_MISDIALLED_TK_PREFIX	MISDIALLED_TRUNK_PREFIX
IC_PARAM_UNREC_PASSED	NORMAL_UNSPEC
IC_PROPRIETARY	NORMAL_UNSPEC
IC_PREEMPTION	PREEMPTION
IC_PREEMPTION_CCT_UNAVAILABLE	NORMAL_UNSPEC
IC_UNALLOCATED_DEST_NUMBER	UNALLOCATED_NUM
IC_UNREC_ELEM_PASSED_ON	PARAM_UNREC_PASSED
IC_SUB_ABSCENT	SUB_ABSCENT
IC_UNDEFINED_BG	UNDEFIND_BG
IC_ROUTING_ERROR	ROUTING_ERROR
IC_PRECEDENCE_BLOCKED	PRECEDENCE_BLOCKED
IC_CALL_TYPE_INCOMPATIBLE	CALL_TYPE_INCOMP
IC_GROUP_RESTRICIONS	GROUP_RESTRICT
IC_CALLING_PARTY_OFF_HOLD	NORMAL_UNSPEC
IC_CALLING_DROPPED_WHILE_ON_HOLD	NORMAL_UNSPEC
IC_NEW_DESTINATION	NORMAL_UNSPEC
IC_OUTGOING_CALLS_BARRED	NORMAL_UNSPEC
IC_SUB_CONTROLLED_ICB	NORMAL_UNSPEC
IC_CALL_REJECT_CALL_GAPPING	NORMAL_UNSPEC
IC_REJECTED_DIVERTED_CALL	NORMAL_UNSPEC
IC_SELECTIVE_CALL_BARRING	NORMAL_UNSPEC
IC_REMOTE_PROC_ERROR	NORMAL_UNSPEC
IC_TEMPORARY_OOS	NORMAL_UNSPEC
IC_OPERATOR_PRIORITY_ACCESS	NORMAL_UNSPEC
IC_CUG_ACCESS_BARRED	NORMAL_UNSPEC
IC_SUBSCRIBER_CALL_TERMINATE	NORMAL_UNSPEC
IC_FLOW_CONTROLLED_CONGESTION	NORMAL_UNSPEC

Internal Cause Mnemonic	Transmitted ANSI SS7 Cause
IC_OUT_OF_CATCHMENT_AREA	NORMAL_UNSPEC
IC_TRANSLATION_OOS	NORMAL_UNSPEC
IC_PERMANENT_ICB	NORMAL_UNSPEC
IC_SUBSCRIBER_MOVED	NORMAL_UNSPEC
IC_SUB_NOT_FOUND_DLE	NORMAL_UNSPEC
IC_ANONYMOUS_CALL_REJECTION	NORMAL_UNSPEC
IC_TERMINAL_CONGESTION	NORMAL_UNSPEC
IC_REPEAT_ATTEMPT	NORMAL_UNSPEC
IC_VACANT_CODE	NORMAL_UNSPEC
IC_PREFIX_0_DIALLED_IN_ERROR	NORMAL_UNSPEC
IC_PREFIX_1_DIALLED_IN_ERROR	NORMAL_UNSPEC
IC_PREFIX_1_NOT_DIALLED	NORMAL_UNSPEC
IC_EXCESSIVE_DIG_CALL_PROCEEDING	NORMAL_UNSPEC
IC_PROT_ERR_THRESHOLD_EXCEEDED	NORMAL_UNSPEC
IC_OUTGOING_CALLS_BARRED_IN_CUG	NORMAL_UNSPEC
IC_INCON_OUTGOING_ACC_AND_SUB_CLASS	NORMAL_UNSPEC
IC_NON_EXISTENT_CUG	NORMAL_UNSPEC
IC_MESG_WITH_UNREC_ELEM_DISCARDED	NORMAL_UNSPEC
IC_PREEMPTION_CCT_RES	NORMAL_UNSPEC
IC_PERMANENT_FRAME_MODE_OOS	NORMAL_UNSPEC
IC_PERMANENT_FRAME_MODE_OPERATIONAL	NORMAL_UNSPEC
IC_BLACKLIST_NO_CLI	NORMAL_UNSPEC
IC_BLACKLIST_CLI_LENGTH_INVALID	NORMAL_UNSPEC
IC_BLACKLIST_CLI_MATCHED	NORMAL_UNSPEC
IC_BLACKLIST_CPC_RESTRICTED	NORMAL_UNSPEC
IC_BLACKLIST_NOA_RESTRICTED	NORMAL_UNSPEC
IC_BLACKLIST_BNUMBER_MATCHED	NORMAL_UNSPEC
IC_WHITELIST_CLI_NOT_MATCHED	NORMAL_UNSPEC
IC_PORTED_NUMBER	NORMAL_UNSPEC
IC_REDIRECTION_TO_NEW_DEST	NORMAL_UNSPEC
IC_COT_FAILURE	NORMAL_UNSPEC
IC_UNKNOWN	NORMAL_UNSPEC

Release Cause Location Codes

The following section lists the internal and protocol-specific release cause location values associated with Release 7.3(x) and later.

Internal Release Cause Location Codes

Listed below are the internal release cause-location binary values for Release 7.3(x) and later.

Cause Location	Bit Code Value
LOCATION_USER	0001
LOCATION_PRIVATE_LOCAL	0010
LOCATION_PUBLIC_LOCAL	0011
LOCATION_TRANSIT	0100
LOCATION_PUBLIC_REMOTE	0101
LOCATION_PRIVATE_REMOTE	0110
LOCATION_INTERNATIONAL	0111
LOCATION_INTERWORKING	1000
LOCATION_LOCAL_INTERFACE	1001
LOCATION_LOCAL_LOCAL	1010
LOCATION_LOCAL_REMOTE	1011
LOCATION_PACKET_MANAGER	1100
LOCATION_UNKNOWN}	1101

Protocol Specific Release Cause Location Codes

The following sections list the protocol-specific release cause location values for the protocols supported in software Release 7.

The release cause location values for each protocol are listed with their variants in a separate column on the right side of the following tables. Note that an “X” in any column cell indicates that the mapping in question is supported by that particular protocol.

ANSISS7 Protocol to Internal Mapping

Described in this section are the protocol-specific release cause location values, pertinent to the AnsiSS7 protocol. The received bit code values are in binary.

Variants are: A – Standard, B – Bellcore, C – MCI, D – Sprint

Received Bit Code Value	CAUSE LOCATION	A	B	C	D
0000	LOCATION_USER,	X	X	X	X
0010	LOCATION_LOCAL_LOCAL,	X	X	X	X
0110	LOCATION_LOCAL_INTERFACE,	X	X		
0001	LOCATION_PRIVATE_LOCAL,	X		X	X
0011	LOCATION_TRANSIT DEFAULT,	X		X	X
0100	LOCATION_LOCAL_REMOTE,	X		X	X
0101	LOCATION_PRIVATE_REMOTE,	X		X	X
0110	LOCATION_LOCAL_INTERFACE,	X		X	X
0111	LOCATION_INTERNATIONAL,	X		X	X
1010	LOCATION_INTERWORKING,	X		X	X

MCI & Sprint default location on no map for received value: LOCATION_TRANSIT ANSI STANDARD

Bellcore default location on no map for received value: LOCATION_LOCAL_INTERFACE

Internal to ANSISS7 Protocol Mapping

This section describes the internal-to-protocol location mappings supported in the AnsiSS7 protocol. The transmitted bit code values are in binary.

Cause Location	Transmitted Bit Code Value	A	B	C	D
LOCATION_USER,	0000	X	X	X	X
LOCATION_LOCAL_LOCAL,	0010	X	X	X	X
LOCATION_LOCAL_INTERFACE,	0110	X	X		
LOCATION_PRIVATE_LOCAL,	0001	X		X	X

Cause Location	Transmitted Bit Code Value	A	B	C	D
LOCATION_TRANSIT_DEFAULT,	0011	X		X	X
LOCATION_LOCAL_REMOTE,	0100	X		X	X
LOCATION_PRIVATE_REMOTE,	0101	X		X	X
LOCATION_LOCAL_INTERFACE,	0110	X		X	X
LOCATION_INTERNATIONAL,	0111	X		X	X
LOCATION_INTERWORKING,	1010	X		X	X

Q767 Protocol to Internal Mapping

Described in this section are the protocol-specific Release cause location values that are pertinent to the Q767 protocol. The received bit code values are in binary.

Variants are: A – Standard, B – ITALIAN, C – RUSSIAN, D – SPANISH, E – SWEDISH, F – MEXICAN, G – ITALIAN and INTERCONNECT,

H – ETS_300_121 AND POLISH, I – ETS_300_121

Received Bit Code Value	Call Context Cause Location	A	B	C	D	E	F	G	H	I
0000	LOCATION_USER,	X	X	X	X	X	X	X	X	X
0010	LOCATION_LOCAL_LOCAL,									
0110	LOCATION_LOCAL_INTERFACE,									
0010	LOCATION_PUBLIC_LOCAL,		X		X		X	X		
0001	LOCATION_PRIVATE_LOCAL,		X		X		X	X		
0011	LOCATION_TRANSIT,	X	X	X	X	X	X	X	X	X
0100	LOCATION_LOCAL_REMOTE,									
0100	LOCATION_PUBLIC_REMOTE	X	X	X	X	X	X	X	X	X
0101	LOCATION_PRIVATE_REMOTE,	X	X	X	X	X	X	X	X	X
0110	LOCATION_LOCAL_INTERFACE,									
0111	LOCATION_INTERNATIONAL,	X	X	X	X	X	X	X	X	X
1010	LOCATION_INTERWORKING,	X	X	X	X	X	X	X	X	X

Default location on no map for received value ITALIAN: LOCATION_INTERWORKING. All others: LOCATION_INTERNATIONAL.

Internal to Q.767 Protocol Mapping

This section describes the internal to protocol location mappings supported in the Q.767 protocol. The transmitted bit code values are in binary.

Call Context Cause Location	Transmitted Bit Code Value	A	B	C	D	E	F	G	H	I
LOCATION_USER,	0000	X	X	X	X	X	X	X	X	X
LOCATION_LOCAL_LOCAL,	0010									
LOCATION_LOCAL_INTERFACE,	0110									
LOCATION_PUBLIC_LOCAL,	0010		X		X		X	X		
LOCATION_PRIVATE_LOCAL,	0001		X		X		X	X		
LOCATION_TRANSIT,	0011	X	X	X	X	X	X	X	X	X
LOCATION_LOCAL_REMOTE,	0100									
LOCATION_PUBLIC_REMOTE	0100	X	X	X	X	X	X	X	X	X
LOCATION_PRIVATE_REMOTE,	0101	X	X	X	X	X	X	X	X	X
LOCATION_LOCAL_INTERFACE,	0110									
LOCATION_INTERNATIONAL,	0111	X	X	X	X	X	X	X	X	X
LOCATION_INTERWORKING,	1010	X	X	X	X	X	X	X	X	X

Q761 Protocol to Internal Mapping

Described in this section are the protocol-specific release cause location values, pertinent to the Q761 protocol. The received bit code values are in binary.

Variants are: A – Standard Q.761, B – Australian Q.761, C – Finnish Q.761, D – JAP Q761, E – Jap ETS_300_356, F – HONG_KONG Q761,

G – BELGIAN Mobistar, H – KOREAN Q761, I – SPANISH ETS_300_356, J – SWISS ETS_300_356, K – ETS_300_356_V3 AND UK,

L – Q.761 Taiwan, M – ETS_300_356 AND JAPAN, N – Q.761 KOREAN

Received Bit Code Value	Call Context Cause Location	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
0000	LOCATION_USER,	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
0010	LOCATION_LOCAL_LOCAL,																	
0110	LOCATION_LOCAL_INTERFACE,																	

Received Bit Code Value	Call Context Cause Location	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
0010	LOCATION_PUBLIC_LOCAL,	X	X	X	X		X	X	X	X	X	X	X	X	X			
0001	LOCATION_PRIVATE_LOCAL,	X	X	X	X		X	X	X	X	X	X	X	X	X			
0011	LOCATION_TRANSIT,	X		X	X	X	X	X	X	X	X	X	X	X	X			
0100	LOCATION_LOCAL_REMOTE,																	
0100	LOCATION_PUBLIC_REMOTE	X	X	X	X	X	X	X	X	X		X	X	X	X			
0101	LOCATION_PRIVATE_REMOTE,	X	X	X	X	X	X	X	X	X		X	X	X	X			
0110	LOCATION_LOCAL_INTERFACE,																	
0111	LOCATION_INTERNATIONAL,	X	X	X	X	X	X	X	X	X		X	X	X	X			
1110	LOCATION_PACKET_MANAGER									X								
1010	LOCATION_INTERWORKING,	X	X	X	X	X	X	X	X	X	X	X	X	X	X			

Default location on no map for received value: KOREAN: LOCATION_INTERWORKING,

Internal to Q.761 Protocol Mapping

This section describes the internal to protocol location mappings supported in the Q.761 protocol. The transmitted bit code values are in binary.

Call Context Cause Location	Transmitted Bit Code Value	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
LOCATION_USER,	0000	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
LOCATION_LOCAL_LOCAL,	0010																	
LOCATION_LOCAL_INTERFACE,	0110																	
LOCATION_PUBLIC_LOCAL,	0010	X	X	X	X		X	X	X	X	X	X	X	X	X			
LOCATION_PRIVATE_LOCAL,	0001	X	X	X	X		X	X	X	X	X	X	X	X	X			
LOCATION_TRANSIT,	0011	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
LOCATION_LOCAL_REMOTE,	0100																	
LOCATION_PUBLIC_REMOTE	0100	X	X	X	X	X	X	X	X	X		X	X	X	X			
LOCATION_PRIVATE_REMOTE,	0101	X	X	X	X	X	X	X	X	X		X	X	X	X			
LOCATION_LOCAL_INTERFACE,	0110																	

■ Release Cause Location Codes

Call Context Cause Location	Transmitted Bit Code Value	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
LOCATION_INTERNATIONAL,	0111	X	X	X	X	X	X	X	X	X		X	X	X	X			
LOCATION_PACKET_MANAGER	1110									X								
LOCATION_INTERWORKING,	1010	X	X	X	X	X	X	X	X	X	X	X	X	X	X			