

SMS Delivery Error Codes

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1. Overview

The following table shows the delivery error codes that are returned by LINK Mobility UK's systems in **delivery receipts**, `query_sm` responses and elsewhere.

2. Delivery error codes

Code	Meaning
1	MT number is unknown in the MT network's HLR
2	MT number is unknown in the MT network's HLR
5	MT number is unknown in the MT network's MSC
9	MT number is classed as an illegal subscriber in the MT network's MSC
11	MT HLR sends back a "Teleservice not provisioned" error in response to the SRI
12	MT handset is listed as an Illegal device on the MSC.
13	Customer is barred according to the MT HLR from receiving SMS
15	MT customer is part of a CUG that is not allowed to receive SMS
21	SMS not supported in the MT network.
22	SMS not supported in the MT MSC

31	MT handset is busy. The signalling control channel is in use. (Probably receiving another SMS at the same time)
32	GPRS – As above
34	System failure in the MT network.
35	Data Missing in either the MT HLR or MSC
36	Unexpected data value received in response to a FSM or SRI
40	Memory capacity exceeded on the MT handset
41	MT handset protocol error
42	MT handset is not equipped to support SMS
43	Short message type “0” not supported by the MT handset.
44	MT network unable to replace the SMS on the MT customers’ handset
45	Unspecified protocol error on the MT handset
46	Message class not supported on the MT handset
47	Unspecified DCS (Data coding scheme) error on the MT handset
48	Transfer layer PDU not supported by MT handset

49	SIM card full on MT handset
50	MT handset's SIM is unable to store the message
51	Error in MT handset
52	Memory capacity exceeded on the MT handset
53	SIM application toolkit busy on the MS handset
54	SIM data download error on the MT customer's handset
55	Unspecified MS handset error
60	Absent subscriber. No reason known
61	Absent subscriber due to phone being switched off
62	Absent subscriber due to phone out of coverage/flat battery
63	Absent subscriber due to roaming restriction/restricted area
64	Absent subscriber due to being deregistered in the HLR
65	Absent subscriber due to being purged in the VLR (off for 24+ hours)
66	Absent subscriber (GPRS) cannot be paged by the SGSN

67	Absent subscriber due to GPRS detached
68	Absent subscriber due to deregistration in the HLR (GPRS)
69	Absent subscriber due to GPRS MS purged in VLR
70	Absent subscriber due to unidentified subscriber on the MSC that the FSM was sent to.
71	Absent subscriber due to unidentified subscriber on the SGSN
80	SS7 error. "Duplicate invoke ID"
81	SS7 error. "Service not supported" – Suspect the carrier carrying the message does not support SMS
82	SS7 error. "Mis typed parameter"
83	SS7 error. "No response from peer"
84	SS7 error. Returned when the C7 stack is congested
85	SS7 error. Returned when the C7 stack is shutting down.
86	SS7 error. "Unrecognised error"
87	SS7 error. "Unexpected error"
88	SS7 error. "Unexpected response from peer"

89	SS7 error. "Service completion failure"
90	SS7 error. "invalid response received"
91	SS7 error. TCAP ERROR. Five possible causes:- The subsystem that the TCAP message is destined for is congested The subsystem number that the TCAP message is destined for has no application bound in The subsystem number that the TCAP message is destined for has not been provisioned on the peer SS7 stack The network is currently unavailable to transport TCAP Messages The network is currently congested
92	SS7 error. "Global Title Translation error"
93	SS7 error. "Alphanumeric source address with more than 11 characters or message content not GSM compliant."
94	Barred from sending to this network. IMSI barring implemented by partner to stop submissions to this network.
95	Message is blocked by gateway or network. May be due to origin addresses, destination address, message content or other.

3. Definitions

Acronym	Definition
MT	Mobile Terminating
SRI	Send Routing Information (for short message)
MS	Mobile Subscriber
PDU	Protocol Data Unit

CUG	Closed User Group
HLR	Home Location Register
FSM	Forward Short Message
VLR	Visitor Location Register
SGSN	Service GPRS Service Node