2.11 AT+CMEE Error Message Format

AT+CMEE controls the format of error result codes that indicates errors related to BGS2-W functionality. Format can be selected between plain "ERROR" output, error numbers or verbose "+CME ERROR: <err>" and "+CMS ERROR: <err>" messages.
Possible error result codes are listed in Table 2.4, General "CME ERROR" Codes (3GPP TS 27.007), Table 2.5, General "CME ERROR" Codes (proprietary), Table 2.6, GPRS related "CME ERROR" Codes (3GPP TS 27.007) and Table 2.7, SMS related "CMS ERROR" Codes (3GPP TS 27.005).
In multiplex mode (refer AT+CMUX) the setting applies only to the logical channel where selected. The setting on the other channels may differ.

Syntax

Test Command
AT+CMEE=?
Response(s)
+CMEE: (list of supported<errMode>s)
OK

Read Command
AT+CMEE?
Response(s)
+CMEE: <errMode>
OK

Write Command
AT+CMEE=<errMode>
Response(s)
OK
ERROR
+CME ERROR: <err>

PIN	ASC0	ASC1	MUX1	MUX2	MUX3	🔔	Last
-	+	+	+	+	+	-	-

Reference(s)
3GPP TS 27.007 [20], 3GPP TS 27.005 [19]

Parameter Description

<errMode>(num)(&W)(&V)	
0(&F)(D)	Disable result code, i.e. only "ERROR" will be displayed.
1	Enable error result code with numeric values.
2	Enable error result code with verbose (string) values.

Example

To obtain enhanced error messages it is recommended to choose <errMode>=2.

```
AT+CMEE=2
OK
```

2.11.1 CME/CMS Error Code Overview

Table 2.4: General "CME ERROR" Codes (3GPP TS 27.007)

<err> Code	Text (if AT+CMEE=2)
0	phone failure
1	no connection to phone
2	phone adapter link reserved
3	operation not allowed
4	operation not supported
5	PH-SIM PIN required
6	PH-FSIM PIN required
7	PH-FSIM PUK required
10	SIM not inserted
11	SIM PIN required
12	SIM PUK required
13	SIM failure
14	SIM busy
15	SIM wrong
16	incorrect password
17	SIM PIN2 required
18	SIM PUK2 required
20	memory full
21	invalid index
22	not found
23	memory failure
24	text string too long
25	invalid characters in text string
26	dial string too long
27	invalid characters in dial string
30	no network service
31	network timeout
32	network not allowed - emergency calls only
40	network personalization PIN required
41	network personalization PUK required
42	network subset personalization PIN required
43	network subset personalization PUK required
44	service provider personalization PIN required
45	service provider personalization PUK required
46	corporate personalization PIN required
47	corporate personalization PUK required
48	PH-SIM PUK (master phone code) required
100	unknown
132	service option not supported

<err> Code	Text (if AT+CMEE=2)
133	requested service option not subscribed
134	service option temporary out of order
256	operation temporary not allowed
257	call barred
258	phone busy
259	user abort
260	invalid dial string
261	SS not executed
262	SIM blocked
263	invalid block

Table 2.5:   General "CME ERROR" Codes (proprietary)

<err> Code	Text (if AT+CMEE=2)
615	network failure
616	network is down
639	service type not yet available
640	operation of service temporary not allowed
764	missing input value
765	invalid input value
767	operation failed

Table 2.6:   GPRS related "CME ERROR" Codes (3GPP TS 27.007)

<err> Code	Text (if AT+CMEE=2)
103	illegal MS
106	illegal ME
107	GPRS services not allowed
111	PLMN not allowed
112	location area not allowed
113	roaming not allowed in this location area
148	unspecified GPRS error
149	PDP authentication failure
150	invalid mobile class

Table 2.7:   SMS related "CMS ERROR" Codes (3GPP TS 27.005)

<err> Code	Text (if AT+CMEE=2)
1	unassigned (unallocated) number
8	operator determined barring
10	call barred
21	short message transfer rejected
27	destination out of service
28	unidentified subscriber
29	facility rejected
30	unknown subscriber

<err> Code	Text (if AT+CMEE=2)
38	network out of order
41	temporary failure
42	congestion
47	resources unavailable, unspecified
50	requested facility not subscribed
69	requested facility not implemented
81	invalid short message transfer reference value
95	invalid message, unspecified
96	invalid mandatory information
97	message type non-existent or not implemented
98	message not compatible with short message protocol state
99	information element non-existent or not implemented
111	protocol error, unspecified
127	interworking, unspecified
128	telematic interworking not supported
129	short message type 0 not supported
130	cannot replace short message
143	unspecified TP-PID error
144	data coding scheme (alphabet) not supported
145	message class not supported
159	unspecified TP-DCS error
160	command cannot be actioned
161	command unsupported
175	unspecified TP-command error
176	TPDU not supported
192	SC busy
193	no SC subscription
194	SC system failure
195	invalid SME address
196	destination SME barred
197	SM rejected-duplicate SM
198	TP-VPF not supported
199	TP-VP not supported
208	do SIM SMS storage full
209	no SMS storage capability in SIM
210	error in MS
211	memory capacity exceeded
212	SIM application toolkit busy
213	SIM data download error
255	unspecified error cause
300	ME failure
301	SMS service of ME reserved

<err> Code	Text (if AT+CMEE=2)
302	operation not allowed
303	operation not supported
304	invalid PDU mode parameter
305	invalid text mode parameter
310	SIM not inserted
311	SIM PIN required
312	PH-SIM PIN required
313	SIM failure
314	SIM busy
315	SIM wrong
316	SIM PUK required
317	SIM PIN2 required
318	SIM PUK2 required
320	memory failure
321	invalid memory index
322	memory full
330	SMSC address unknown
331	no network service
332	network timeout
340	no +CNMA acknowledgement expected
500	unknown error
512	user abort
513	unable to store
514	invalid status
515	invalid character in address string
516	invalid length
517	invalid character in PDU
518	invalid parameter
519	invalid length or character
520	invalid character in text
521	timer expired
522	operation temporary not allowed