

2N® SmartCom PRO - Terminal error buffer code description

An error buffer is implemented in each terminal to store data on terminal operation errors. To display the buffer contents use either the terminal (an AT command) or an SMS.

SMS:

The SMS displays the last 10 errors starting with the most recent one.

SC ERR PWD=<password> [CLR]

This command includes one optional parameter - CLR. If you add this string after the password in the command SMS, you will receive an SMS showing the current buffer contents and all errors will then be deleted from the terminal memory.

The following reply will come from the terminal after processing:
1:8,10 2:3,10 1:1,0 7:8,10 6:8,7 5:7,40 4:11,848

AT COMMAND:

Error codes are obtained by AT^SCERR? which response is:

^SCERR: {id}> {ID}, {Additional value}
 id - Sequence number of the error since the last start-up.
 ID - Error identification. See table below.
 Additional value - Detailed information

This table describes the meaning of the 2N® SmartCOM PRO reset error codes.

ID	Name	Additional value	Description
0	ERR_TYPE_NO_ERROR		No error
1	ERR_TYPE_SIM_PRESENCE		SIM not detected
2	ERR_TYPE_SIM_FEW_PIN_ATTEMPTS	pin attempts left	Too few attempts left
3	ERR_TYPE_SIM_PIN_ERROR	CME error	Incorrect PIN
4	ERR_TYPE_SIM_BUSY		SIM is busy
5	ERR_TYPE_GSM_REGISTRATION_LOST		GSM unregistered
6	ERR_TYPE_GSM_REGISTRATION_TIMEOUT		Could not register to the network
7	ERR_TYPE_COMMAND_RETRIES	Command channel state	GSM module does not respond on the command channel

8	ERR_TYPE_DATA_RETRIES	Data channel state	GSM module does not respond on the data channel
9	ERR_TYPE_MUX_WAIT_OPEN		Timeout for opening the MUX channel
10	ERR_TYPE_PSPRAS_INVALID_ARG_CNT		Unexpected count of parameters (PIN attempts read)
11	ERR_TYPE_CME_COMMAND	CME error	CME error on command channel
12	ERR_TYPE_CMS_COMMAND	CMS error	CMS error on command channel
13	ERR_TYPE_CME_DATA	CME error	CME error on data channel
14	ERR_TYPE_CMS_DATA	CMS error	CMS error on data channel
15	ERR_TYPE_CME_UPGRADE	CME error	CME error on command channel while upgrading
16	ERR_TYPE_CMS_UPGRADE	CMS error	CMS error on command channel while upgrading
17	ERR_TYPE_CME_UPGRADE_DATA	CME error	CME error on data channel while upgrading
18	ERR_TYPE_CMS_UPGRADE_DATA	CMS error	CMS error on data channel while upgrading
19	ERR_TYPE_SC_CLIENT_UNABLE_TO_CONNECT		Could not connect to the remote server
20	ERR_TYPE_SC_UPGRADE_ERROR	UPG error code	Upgrade failed
21	ERR_TYPE_SC_UPGRADE_BLOCK_ERROR		Did not get all requested data
22	ERR_TYPE_SC_MEMORY_ALLOCATION_ERROR		Memory allocation failed
23	ERR_TYPE_SC_SPECIFICATION_ERROR		Cannot find the SC specification (serial num etc.)
24	ERR_TYPE_PROTOCOL_RETRIES		Server not responding
25	ERR_TYPE_SC_UPGRADE_MAXIMUM_RETRY_CNT		Upgrade failed three times
26	ERR_TYPE_MBUS_SHORT_CIRCUIT		MBUS short circuit
27	ERR_TYPE_GSM_COMMAND	Command channel state	General error on command channel
28	ERR_TYPE_GSM_COMMAND_UPGRADE	Command channel state	General error on command channel while upgrading
29	ERR_TYPE_GSM_DATA	Data channel state	General error on data channel

30	ERR_TYPE_GSM_DATA_UP GRADE	Data channel state	General error on data channel while upgrading
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Command channel states

GSM module set-up state set.

ID	Name
0	COMMAND_SUB_STATE_AT
1	COMMAND_SUB_STATE_FACTORY_RESET
2	COMMAND_SUB_STATE_MUX_STARTUP
3	COMMAND_SUB_STATE_MUX_STARTUP
4	COMMAND_SUB_STATE_ECHO_OFF
5	COMMAND_SUB_STATE_MODUL_MANUFACTURER
6	COMMAND_SUB_STATE_MODUL_TYPE
7	COMMAND_SUB_STATE_MODUL_FW_VERSION
8	COMMAND_SUB_STATE_GET_IMEI
9	COMMAND_SUB_STATE_READ_OPERATOR_NAME
10	COMMAND_SUB_STATE_ERROR_REPORT
11	COMMAND_SUB_STATE_EVENT_REPORT
12	COMMAND_SUB_STATE_MESSAGE_FORMAT
13	COMMAND_SUB_STATE_SIM_PIN
14	COMMAND_SUB_STATE_SIM_PIN_ATTEMPT_STATUS
15	COMMAND_SUB_STATE_INSERT_SIM_PIN
16	COMMAND_SUB_STATE_GET_IMSI
17	COMMAND_SUB_STATE_GET_ICCID
18	COMMAND_SUB_STATE_DELETE_ALL_STORED_MESSAGES
19	COMMAND_SUB_STATE_SIGNAL_QUALITY
20	COMMAND_SUB_STATE_FIELD_STRENGTH
21	COMMAND_SUB_STATE_ASK_NETWORK_REGISTRATION
22	COMMAND_SUB_STATE_NETWORK_REGISTRATION_INDICATION
23	COMMAND_SUB_STATE_CHARACTER_SET
24	COMMAND_SUB_STATE_LIST_ALL_UNREAD_MESSAGES
25	COMMAND_SUB_STATE_SHOW_TEXT_MODE_PARAMS
26	COMMAND_SUB_STATE_NEW_MESSAGE_INDICATION

27	COMMAND_SUB_STATE_CLOSE_CONNECTION
28	COMMAND_SUB_STATE_OTHER
29	COMMAND_SUB_STATE_START_UP_LED_SEQUENCE
30	COMMAND_SUB_STATE_IDLE_AT
31	COMMAND_SUB_STATE_INIT_COMPLETE
32	COMMAND_SUB_STATE_SEND_RESPONSE_MESSAGE_CMD
33	COMMAND_SUB_STATE_SEND_RESPONSE_MESSAGE_TEXT
34	COMMAND_SUB_STATE_START_IP_STACK
35	COMMAND_SUB_STATE_NET_OPT_AUTO_SWITCH_ON
36	COMMAND_SUB_STATE_OPEN_GPRS_BEARER
37	COMMAND_SUB_STATE_SET_APN
38	COMMAND_SUB_STATE_SET_USER_NAME
39	COMMAND_SUB_STATE_SET_PASSWORD
40	COMMAND_SUB_STATE_START_GPRS_BEARER
41	COMMAND_SUB_STATE_GET_LOCAL_ADDRESS
42	COMMAND_SUB_STATE_GET_PEER_ADDRESS
43	COMMAND_SUB_STATE_CREATE_TCP_SERVER
44	COMMAND_SUB_STATE_CLOSE_CLIENT
45	COMMAND_SUB_STATE_WISMO_DIRECT_ACCESS
46	COMMAND_SUB_STATE_RESTART_CLOSE_ALL_CONNECTIONS
47	COMMAND_SUB_STATE_READ_OPERATOR_ID_START
48	COMMAND_SUB_STATE_READ_OPERATOR_ID
49	COMMAND_SUB_STATE_READ_OPERATOR_NAME_START
50	COMMAND_SUB_STATE_GSM_BANDS_GET
51	COMMAND_SUB_STATE_GSM_BANDS_SET
52	COMMAND_SUB_STATE_RTC
53	COMMAND_SUB_STATE_RTC_SAVE

Data channel states

Data communication state set.

ID	Name
0	DATA_SUB_STATE_OTHER
1	DATA_SUB_STATE_START_DATA_EXCHANGE

2	DATA_SUB_STATE_WAIT_FOR_CONNECT
3	DATA_SUB_STATE_ECHO_OFF
4	DATA_SUB_STATE_SET_URC_TYPES
5	DATA_SUB_STATE_CLOSE_START
6	DATA_SUB_STATE_PRE_PPP_WAIT
7	DATA_SUB_STATE_SEND_PPP
8	DATA_SUB_STATE_CLOSE_AT
9	DATA_SUB_STATE_DATA_CHANNEL_CLOSED
10	DATA_SUB_STATE_CREATE_TCP_CLIENT
11	DATA_SUB_STATE_WAIT_FOR_CONNECTION_TO_PEER
12	DATA_SUB_STATE_WAIT_FOR_CONNECTION_TO_PEER
13	DATA_SUB_STATE_TEST_SIGNAL_QUALITY
14	DATA_SUB_STATE_TEST_READ_OPERATOR_NAME
15	DATA_SUB_STATE_TEST_SIM_CHECK
16	DATA_SUB_STATE_TEST_ASK_NETWORK_REGISTRATION
17	DATA_SUB_STATE_TEST_GET_LOCAL_ADDRESS

UPG error codes

Response codes for firmware upgrade call.

ID	Name
0	UPG_RESP_OK
1	UPG_RESP_FINISHED
2	UPG_RESP_HTTP_ERROR
3	UPG_RESP_TARGET_ERROR
4	UPG_RESP_PORT_ERROR
5	UPG_RESP_PATH_ERROR
6	UPG_RESP_TARGET_HEADER_ERROR
7	UPG_RESP_HW_VERSION_ERROR
8	UPG_RESP_TIMEOUT_ERROR
9	UPG_RESP_FW_MARK_ERROR
10	UPG_RESP_CRC_CHECK_ERROR
11	UPG_RESP_FW_LENGTH_ERROR
12	UPG_RESP_FW_VERSION_ERROR



More product information:

2N[®] SmartCom (Official Website 2N)

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