

Errata - GM7 Protocol description

Severity level:

0 - Minor spelling, formatting or grammatical error obvious in context

1 - Formatting, grammar or spelling issue possible causing protocol misinterpretation

2 - Missing information

3 - Faulty or directly misleading information resulting in protocol error

General

Command for setting accelerometer sensitivity should be added.

Details

Page	Description	Severity
6	Indentation for "ASCII format:" is wrong	0
7	Description of Event reply must include mention of alternative format of reply with "[and "]" around each returned location which seems to happen for old and stale locations.	2
9	Command list should be in alphabetic order. Command list is missing the following commands: <ul style="list-style-type: none">• GFEN• SET EVT	2
10	Grammar: "...The tag consists of number ..." Should be "The tag consists of a number" (This error is repeated in every command description)	0
14	In Ex1 and Ex2 colors are used inconsistent in command examples. For example in Ex1 the DNS server is written in black and in Ex2 in red	0
10	Grammar: "The most left digit is reserved (in) and (which) must be '3'."	0
13	Grammar: (in two places) "could be ignored if (uses) GPRS communication is used).".	0
14	Spelling: "with others port ..." should be "with any port ..."	0
15	Grammar: "Sometimes the failure of GPRS connection is caused by the firewall setting enabled." needs to be rewritten Grammar: "The software developer must implement the function in the control center software in which must echo back exact GPRS Keep_Alive packet back to the device once the base station receives the GPRS Keep_Alive packet which was sent from the device to confirm the GPRS connection." Needs to be rewritten	1
15	The description of KEEP_ALIVE structure should state that a 32bit architecture is assumed. In C the bit length of unsigned short is not defined.	1

Page	Description	Severity
16	<p>The description “If the control center software is installed in a computer which is located in the “Intranet” then the parameter “GPRS_Server_IP” address should be the external one which connects to the router and the parameter “GPRS_Server_Port” should be the port number of the computer which is assigned by the router. If the parameter “GPRS_Server_IP” address is using “Virtual IP address” in the intranet then it will lead to the GPRS connection failure.”</p> <p>While understandable by an engineer the information is pointless. There is no such things as “Virtual IP address” what the author refers to is known as masqueraded addresses behind a router/firewall. Anyone reading a protocol description of this type will already have a full understanding of this concept and if not then this sentence makes no difference.</p>	1
17	Inconsistent use of text color. Some text is in red for no obvious reason (there are many other example in the manual of enable/disable command where the enable/disable is in black)	0
22	<p>Inconsistent use of colors. “0. USB port, 1. GSM SMS Communication” are both in red for no obvious reason.</p> <p>Heading section. <i>“The effective value is from 10~90 degrees”</i> should be changed to <i>“The effective value is from 10~360 degrees”</i> since the returned heading is between 0-360 (not sure why the protocol description uses the “~” character to indicate range)</p> <p>This should also be changed in all other places where Heading is used as parameter. It should also be clarified what compensation is used to calculate the heading and how it relates to “true-north” heading.</p>	1
25	“.. currently GPS information” change to “current GPS information”	1
26	“... please enabled the caller” change to “please enable the caller ID in the mobile phone making the call.”	
27	<p>“All settings will be remained.” change to “All settings will remain”</p> <p>“... The physically” change to “... Then physically change”</p> <p>“ ... while the USB cable is connected to a PC, otherwise the unit needs manually to power it on again. “ This is a poor english which could be misunderstood. Furthermore, there is no physical way to do a power cycle.</p>	2
28	“..will be remained the same” change to “will remain the same”	1
30	Technically there is no such thing as a “SIMID”	2
32	In the mode description of PSMT mode 1 & 2 are identical. The differences should be summarized in regards to timer behaviour.	3
34,35	“.. when the parameter “Mode” sets to ...” change to “ ... when the parameter “Mode” is set to ...”	1
41	In the description the sentence ends with double “.”	1

Page	Description	Severity
42	In the example section the difference between PDU and Text mode should be illustrated.	2
44	The sentence “ <i>The “Sleep Report” might not be able to send out before entering sleeping state depending on the availability of environment.</i> “ is difficult to understand due to poor english and should be rephrased. For example as “ <i>It it is not possible to send the “Sleep Report” due to communication failure the report wil be queued and sent when a communication channel is re-established</i> ”	
45	The description Mode 0 is the first place where storing positions to internal NAND flash is mentioned. In no other place is Polling referred to as storing location in internal flash.	
46	In row “8” the word “BOTH” is in red which is not warranted in this context.	
49	Download complete message is not “\$Download Completed” but “ \$MSG:Download Completed ”	3
55	Table 9.1 Missing event 50 (GFEN)	2

Additional comments:

- Grammatical error that is repeated in several commands are only reported for the first occurrence.
- From the grammatical mistakes in the documentation it is clear that the author is not a native English speaker. Unfortunately in a few cases the mistakes are severe enough that they might cause misunderstandings.
- In several places in the manual the text is inconsistently written in **red**. This is clearly an attempt to mark important word/functions. Unfortunately the marking seems very ad-hoc at best and just plain nonsensical in other places. This should be reviewed.
- **PROTOCOL-ERROR:** Old stale location updates from the device is not sent back as “LOCATION-STRING” but as “[LOCATION-STRING]
- GEO Fence events (**SETEVT**) needs to be included in the table of events as events 50-99 will be sent back on the corresponding event.
- The use of the term “**Polling**” to mean recorded to device memory is misleading since the term polling has a completely different meaning in a protocol/computer context. It would be better to replace this term with “Recording”
- All query commands (e.g. SIMID, IMEI) do accept the syntax “**\$WP+COMMAND+[TAG]=PIN,?**” which makes all query commands consistent. Should be documented.
- Recording location to device flash lacks information on the internal device flash size and how that can translate to number of stored location.

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