GV50CG Firmware Release Notes

GSM/GPRS/GNSS Tracker

TRACGV50CGRNR01A03V15

Version: 1.3.15



Driving Smarter IoT

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1 Preamble

This Release Note introduces GV50CG firmware version **GV50CGR01A03V15M128** and briefly describes the benefits over preceding release. Also you can find difference compared with preceding release.

Note
To upgrade the firmware from A01/A02 to this version over the air, please upgrade it to A03V14 first and then to this version.

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2 Current Release

2.1 GV50CGR01A03V15M128

2.1.1 @Track Protocol Support

GV50CG firmware **GV50CGR01A03V15M128** supports @Track air interface protocol version 3.03. For detailed information about the protocol, please refer to the document **GV50CG@Track_Air_Interface_Protocol_v0303**.

2.1.2 New Features

The following table lists new features compared with the preceding firmware release, version **GV50CGR01A03V14M128**.

Item	Brief Description
1	N/A

2.1.3 Improved Features

The following table lists features or parameters that have been changed or improved compared with preceding firmware release, version **GV50CGR01A03V14M128**.

Item	Brief Description
1	Improved production efficiency.

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3 Release History

3.1 GV50CGR01A03V14M128

3.1.1 @Track Protocol Support

GV50CG firmware **GV50CGR01A03V14M128** supports @Track air interface protocol version 3.03. For detailed information about the protocol, please refer to the document **GV50CG@Track_Air_Interface_Protocol_v0303**.

3.1.2 New Features

The following table lists new features compared with the preceding firmware release, version **GV50CGR01A02V02M128**.

Item	Brief Description
1	Added parameter <Reboot Device Type> to the command AT+GTDOG.
2	Added the parameter <Fast STP Mode> to the command AT+GTSSR.
3	Added parameters <Report ACC Mode>, <Speed Confirmation>, <ODO Confirmation>, <Confirmation Time>, <Fall Degrees> and <Extended Status Report> to the AT+GTCRA command.
4	Added mode 3 to the parameter <Mode> in the command AT+GTCRA.
5	Added the message +RESP:GTACC.
6	Added the message +RESP:GTECR.
7	Split parameters <Cornering and Braking Threshold> and <Cornering and Braking Duration> into parameters <Cornering Threshold>, <Brake Threshold> and <Cornering Duration>, <Brake Duration> in AT+GTHBM.
8	Added the parameter <Check Ignition> to the command AT+GTOWH.

3.1.3 Improved Features

The following table lists features or parameters that have been changed or improved compared with preceding firmware release, version **GV50CGR01A02V02M128**.

Item	Brief Description
1	Fixed an issue where some messages would be lost after abnormal reboot.
2	Fixed an issue where the device rebooted abnormally in jamming environment.

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Item	Brief Description
3	Fixed an issue where the message +RESP:GTBTC was not reported and the <Charging> reported in message +RESP:GTINF was 0 during internal battery charging.
4	Fixed an issue where the +RESP:GTACJ messages were repeatedly reported.
5	Fixed an issue where the device did not work as expected if the voltage was changed within the error voltage set by <Voltage Margin Error> in AT+GTEPS after alarm was triggered.
6	Fixed an issue where the <Message Type> of GTDRM message was incorrect.
7	Fixed an issue where +RESP:GTACJ-03 was reported before +RESP:GTACJ-02 in ignition on state when the Hijack button was kept pressed and <Hijack Trigger Mode> in AT+GTACJ was set to 1.
8	Fixed an issue where the parameter <Crash Counter> was always 00 in the HEX-formatted message +RESP:GTCRA.
9	Fixed an issue where the output light did not work as expected after reboot if the device was in the hijacked state.
10	Improved production efficiency.
11	Fixed an issue where +RESP:GTHBM was incorrectly reported when the device failed to locate and the speed was below the set threshold.
12	Fixed an issue where the parameter <ID> of AT+GTGEO would be reset to the default value after the device rebooted in ignition on state.
13	Fixed an issue where the message +RESP:GTUPC-305 was reported after an upgrade failure message +RESP:GTUPC-302.
14	Fixed an issue where the <Total Packets> and <Current Packets> of an +RESP:GTALM message were inconsistent.
15	Modified the range of <Min Threshold> and <Max Threshold> to 0 - 90000 mV in the command AT+GTVVS.
16	Fixed an issue where the serial number of buffered messages could start from 0 after device reboot.
17	Fixed and issue where the message +RESP:GTDIS was not reported when changing the input status during the device reboot after the input status pre-reboot was saved by AT+GTPDS.
18	Fixed an issue where the device would not report +RESP:GTVGF when it was stationary if <Voltage Idle Vehicle Event> was set to 1 and the voltage was not satisfied.
19	Fixed an issue where the OUTPUT could not be stopped when the parameter <Output ID> was set to 0 in command AT+GTDOS.
20	Fixed an issue where parameter settings of AT+GTPEO were not saved.
21	Fixed an issue where the device could not trigger AT+GTCMD after reboot when the parameter <Input ID Mask> was triggered in command AT+GTUDF.

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Item	Brief Description
22	Fixed an issue where the +RESP:GTTOW message was reported in motion status after reboot when the distance was not met.
23	Fixed an issue where the <Count Number> was not reset to zero after a successful FOTA upgrade.
24	Fixed an issue where the <GNSS Trigger Type> reported in the first +RESP:GTFRI message was incorrect after the <Mode> in AT+GTFRI was changed.
25	Fixed an issue where the device did report +RESP:GTSTR after reboot in stationary state if AT+GTPDS was enabled to save AT+GTSSR state.
26	Fixed an issue where the reported +RESP:GTBAT messages were inconsistent with the protocol.
27	Fixed an issue where the device reported HEX-formatted messages to cell phone via SMS.
28	Fixed an issue where the device could not parse the commands sent via SMS that contained Chinese text fields.
29	Fixed an issue where two +RESP:GTGES messages were reported while the engine was turned off.
30	Fixed an issue where the reported message +RESP:GTFRI was incorrect when the command AT+GTOWH was enabled and the parameter <Position Append Mask> in command AT+GTCFG was enabled.
31	Optimized the SMS reporting process.
32	Fixed an issue where the SIM card could not register on the network.

3.2 GV50CGR01A02V02M128

3.2.1 @Track Protocol Support

GV50CG firmware **GV50CGR01A02V02M128** supports @Track air interface protocol version 2.01. For detailed information about the protocol, please refer to the document **GV50CG@Track_Air_Interface_Protocol_v0201**.

3.2.2 New Features

The following table lists new features compared with the preceding firmware release, version **GV50CGR01A01V05M128**.

Item	Brief Description
1	Added the parameter <Format Version> to the command AT+GTRTO.

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Item	Brief Description
2	Added the parameters <Format Version> and <Cutoff Character> to the message +RESP:GTALM.
3	Modified the range of parameter <Initial Hour Meter Count> to 00000:00:00 - 1193000:00:00 in the command AT+GTHMC.
4	Added parameters <Behaviour Duration>, <Discard Unknown Events>, <Cornering and Braking Threshold>, <Cornering and Braking Duration>, <Acceleration Threshold>, <Acceleration Duration>, <Brake Threshold>, <Brake Duration> and <Report Mode> to the AT+GTHBM command.
5	Added the parameter <Validity Time> to the command AT+GTDIS.
6	Added the parameter <ID Report Format> to the message +RESP:GTGOT/+RESP:GTGIN.
7	Deleted the parameters <Brake Speed Threshold>, <Delta Speed Threshold> and <Delta Heading Threshold> from the command AT+GTASC.
8	Added the parameter <Report Mode> to the command AT+GTASC.

3.2.3 Improved Features

The following table lists features or parameters that have been changed or improved compared with preceding firmware release, version **GV50CGR01A01V05M128**.

Item	Brief Description
1	Fixed an issue where the <Power On Reason> was not 6 in the +RESP:GTPNR message after +RESP:GTUPC-301 reboot.
2	Fixed an issue where there was no IMEI in the reported message +RESP:GTATI.
3	Optimized device sleep logic.
4	Fixed an issue where the network type displayed incorrectly in +RESP:GTINF after removing the SIM card from a device.
5	Fixed an issue where the parameters <INF Expansion Mask> and <INF Expansion2 Mask> were not reported in the message +RESP:GTINF.
6	Fixed an issue where the IMEI reported in the message +RESP:GTATI was incorrect.
7	Fixed an issue where values outside the range of <Client ID> could be issued in the command AT+GTMQT
8	Fixed an issue where the device was unable to report +RESP:GTGIN and +RESP:GTGOT messages after reboot if multiple AT+GTPEO commands were issued.
9	Optimized SMS sending function to support adding any character to the header.
10	Fixed an issue where the device did not report messages.
11	Fixed an issue where the buffer sequence number was not consecutive on the QMS side after a DOG reboot was occurred on the tracker side when the buffers were stored in tracker and QMS side at the same time.

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Item	Brief Description
12	Fixed an issue where it was unable to switch between the main sever and backup server if TLS function was enabled after <Report Mode> was set to 7 in the AT+GTSRI command.
13	Fixed an issue where the device reported a voltage value of 0 in the HEX format message to QMS when the internal battery was not connected.
14	Fixed an issue where the parameters <Backup Battery Voltage> and <Backup Battery Percentage> of the +RESP:GTDMR message in HEX and ASCII formats are inconsistent.
15	Fixed an issue where the <GNSS Trigger Point> would not be influenced by AT+GTOWH when AT+GTOWH was enabled.
16	Fixed an issue where the device did not report +RESP:GTSTR after reboot in motion state if AT+GTPDS was enabled to save AT+GTSSR state.
17	Fixed an issue where abnormal output was triggered when switching roaming and home state in AT+GTRMD
18	Optimized Jamming detection algorithm.
19	Optimized the AT+GTCRA functionality.

3.3 GV50CGR01A01V05M128

3.3.1 @Track Protocol Support

GV50CG firmware **GV50CGR01A01V05M128** supports @Track air interface protocol version 1.00. For detailed information about the protocol, please refer to the document **GV50CG @Track Air Interface Protocol V1.00**.

This is the initial firmware release of GV50CG.

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