



Firmware Release Announcement

OVERVIEW

DATE ISSUED:	October 16, 2019
ISSUED BY:	Sierra Wireless GNX Product Management
PRODUCTS AFFECTED:	All GNX-5P and GNX-6 Devices
FOR DISTRIBUTION TO:	General Distribution
SUMMARY:	<p>Sierra Wireless announces the availability of the G604.08.08 firmware release for GNX-5P and GNX-6 devices.</p> <p>This release adds a longitudinal component of acceleration to events reporting acceleration. Under normal circumstances your existing server-side parsing software will ignore this parameter and function normally. If you want to take advantage for this new parameter, then you may choose to update your server-side parsing software. The details of this new parameter follow:</p> <p>The longitudinal component of total acceleration is reported in events 61,62,100,101 and in the accident report. Longitudinal component is positive for vehicle acceleration and negative for vehicle deceleration. The lateral acceleration component can be calculated using Pythagoras' theorem.</p> $\text{TotalAcceleration}^2 = \text{LongitudinalAcceleration}^2 + \text{LateralAcceleration}^2$ <p>E.g.</p> <p>ACCEL:317:283 - total force of 317mG of which 283mG is longitudinal acceleration (lateral is 143mG)</p> <p>DECEL:230:-170 - total force of 230mG of which -170mG is longitudinal deceleration (lateral is 155mG)</p> <p>HARSH_TURN:288:85 - total force of 288mG of which 85mG is longitudinal acceleration (lateral is 275mG)</p> <p>LARGE_G:611:113 - total force of 611mG of which 113mG is longitudinal acceleration (lateral is 600mG)</p> <p>In short events 61,62,100, and 101 now have two colon separated numbers after the event code rather than just one.</p>
ACTION REQUIRED:	Please test this release on a number of devices to ensure that the additional data sent in events of 61, 62, 100 and 101 are parsed by your server-side software without adverse effects. In the unlikely event that your testing reveals server-side parsing issues, your server-side parsing software may need to be updated to conform to the specification.

PRODUCTION MILESTONES



UPDATE AVAILABILITY:

GNX-5P and GNX-6 devices will ship from the factory with this firmware version starting in November 2019 unless a customer has a dedicated SKU and has requested a different firmware version pending further testing.

The specific firmware version installed will continue to be indicated on the Advance Ship Notice (ASN).

PRODUCT SUPPORT AND MAINTENANCE

CONTACT

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REVISION HISTORY

3-OCT-2019	Rev1: Draft
15-Oct-2019	Rev1.1: Clarifications added
16-Oct-2019	Rev1.2: Additional clarifications