# National Marine Electronics Association

### International Marine Electronics Association

# Technical Bulletin

### Technical Corrigendum   TC# 0183 201312171

**NMEA 0183 Version 4.00, 4.10**
**CPG Sentence**

**Introduction:**

This Technical Corrigendum includes several clarifications to the CPG sentence.

The CPG sentence configures and controls the use of the sentence-grouping parameter information as a listener and talker within a TAG Block.

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**Change summary**

**CPG Sentence**
Notes 5, 8, and 9 have been expanded to clarify application of the "Reset event", "Group-code limit", and "Event offset" data fields with respect to resetting the Group-code value when certain limits are reached.

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Text that no longer applies in **bold red** font highlighted and has a ~~red strike thru~~.
The complete notes are provided for context, with the changes highlighted and in a **bold font**.

**CPG Sentence Notes (5, 8, and 9):**

Note 5)   The "Reset event" field defines the event that causes the "group-code" **value of the TAG Block's sentence-grouping Parameter-code** to return **("reset")** to the "Initial group-code" value.

For a "Reset event" > 0, the event is a time that utilizes the equipment's time reference. The event time needs to include the information from the "Event offset" field. Applying the "Event offset" value changes the time of the event by the sign of the "Event offset" (i.e. A negative offset moves the event to an earlier time, and a positive offset moves the event to a later time.).

Default value of 1.

**If the "Reset event" is set to a value from 1 through 6, and the "Group-code limit" contains a value of 0 or greater, then arriving at either the "Group-code limit" value or the defined time event (see below) causes the "group-code" portion of the TAG Block's sentence-grouping Parameter-code to return to the "Initial group-code" value. That means, if either the "Group-code limit" is exceeded or the "Reset event" time is reached, the reset of the "group-code" is performed.**

**If the "Reset event" is a value from 1 to 6 (see below) and the "Group-code limit" contains a value of -1 (negative one), the "Group-code limit" is set to 0 for a negative "Group-code increment" (decrementing) and to 999 999 999 for a positive "Group-code increment".**

0 = use only the "Group-code limit". The "Event offset" data field does not apply.
1 = daily (beginning next day)
2 = hourly (beginning of hour)
3 = every minute (beginning of minute)
4 = weekly (beginning of Sunday)
5 = monthly (beginning of month)
6 = yearly (beginning of year)

Note 8)     This data field may contain a floating numeric or integer value. The current group-code value ~~(see g:)~~ **(see section "Sentence-grouping Parameter – "g"")** is compared to the group-code limit and is used to reset the group-code to the value of the Initial group-code. If the Group-code increment is positive, the group-code is reset to the Initial group-code when the group-code is greater than this value. If the Group-code increment is negative, the group-code is reset when the group-code is less than this value. This test is done before the group-code is output in the TAG Block. The group-code is incremented after it is output. The group-code limit may be a real number with a fractional part to ensure there is no ambiguity during the limit test. **A value of -1 (negative one) for the "Group-code limit" sets the "Group-code limit" to 0 for a negative "Group-code increment", and to 999 999 999 for a positive "Group-code increment".**

Note 9)     This is the offset in (+/-) seconds (See Note 5.). **Default value of 0.** Null value indicates no change.