

## 1 Overview

This document describes the format and usage of NMEA messages for Orion GPS navigation software. It also details the implementation specifics of NMEA input commands and output sentences supported by Orion.

## 2 Message Format

Orion NMEA messages conform to the NMEA-0183 Ver. 3.01 (January 1, 2002) standard with implementation specifics as noted below.

Commands start with a dollar-sign ("\$\$"), followed by "PUNV", and a comma (","). The command text (which is defined in section 4) comes next, followed by an asterisk ("\*"), two-digit hexadecimal checksum, and the <carriage return> <new line> characters.

Example:

```
$PUNV,<command>*cc<carriage return><new line>
```

### 2.1 Checksum Calculation

In accordance with NMEA-0183, the checksum is calculated by taking the 8 bit exclusive OR of all characters between (but not including) the "\$" and the "\*". The checksum is then appended after the "\*" as a 2 character hexadecimal number.

If a command's checksum is omitted or illegal the command will be rejected and an error message issued.

A command with the checksum value "cc" (two lower case "c" characters) will be accepted as valid (this is primarily used for testing purposes).

### 2.2 Sentence Termination Delimiter

All sentences end with the sentence termination delimiter <carriage return><new line>. This combination is "\n" in C-language format and hexadecimal ASCII values are 0Dh 0Ah. Both characters are required for a command to be recognized.

### 2.3 NMEA Message Sizes

In accordance with NMEA-0183, the maximum number of characters between the starting delimiter "\$" and the terminating <CR><LF> should be 79. That is, the maximum needed buffer size should be 82 for one output sentence.

For input NMEA commands, the maximum size accepted is 128 characters.

# Orion Gps Manual

**DP Hallahan**



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