

PGM EVP 1.12 Software Release Notes

Version 1
2022-04-29

Introduction

Swift Navigation is pleased to provide the latest software release for the PGM EVP, Swift's Precision GNSS Module Evaluation Platform. PGM EVP 1.12 updates existing features, adds enhancements for better user experience, and fixes known issues.

Enhancements and Changes

- Updated software packages:
 - Starling v1.12.4
 - PGM firmware v1.2.7
- Starling configuration file updated with new settings:
 - The NTRIP selection for Skylark in the Starling config file now includes the Asia / Pacific URL for customers using the PGM EVK in those regions.
 - The default maximum connection limit for all TCP-server ports has increased to 4.
 - TCP-server port 55555 outputs two additional SBP messages: `MSG_MEASUREMENT_STATE` (ID: 97) and `MSG_VEL_COG` (ID: 540).
 - The wheel odometry settings have changed to adhere to the new convention implemented in Starling v1.9 ([Release Notes](#)).
 - A new alignment parameter has been introduced to better serve a wide range of applications.
 - `cog-min-speed-meters-per-second` : minimum vehicle speed for alignment (5 m/s default)
 - System time mode feature introduced to allow Starling to operate without using the platform's time. This feature is enabled by default from the new setting `system-time-mode : platform-independent` in the config file.
- Added scripts to turn the Wi-Fi radio on and off (`wifi-radio-on.sh` and `wifi-radio-off.sh`) and a script to check the Wi-Fi status (`wifi-radio-status.sh`).

Installation

The PGM EVP software package and installation instructions are posted on the support portal:

swiftnav.com/support -> General -> Downloads -> PGM Evaluation Kit Software

Supporting Documentation

- [Starling 1.12 Release Notes v1](#)
- [Starling 1.12 Reference Manual v1](#)
- [SBP Protocol Specification v4.1.4](#)
- [PGM Evaluation Kit Quick Start Guide v3](#)
- [PGM Evaluation Kit User Manual v6](#)

Compatible Tools

- [Swift Console v3.1.4](#)
- [Drongo Maps v1.0.6](#)
- [Woodpecker Log Utility v1.10.2](#)
- [sbp2report v2.5.0](#)
- [sbp2rinex v2.3](#)

Notes

- [OBDII Vehicle Speed Signal \(VSS\) Generators](#) Application Note is provided for OBD2 to VSS adapters that can be used with PGM EVP to enhance Dead Reckoning performance.