

Applanix POSPac Complete

Frequently asked questions

1. What is Applanix POSPac Complete?

Applanix® POSPac™ Complete is the next generation of industry-leading GNSS-Aided Inertial post-processing software from Trimble® Applanix for high-accuracy mobile mapping applications. It integrates Trimble ProPoint® GNSS, Trimble CenterPoint® RTX, and the advanced Applanix IN-Fusion®+ engine to deliver unparalleled accuracy and efficiency across all platforms (air (uncrewed and crewed), land, marine).

2. What are the major new features and benefits of POSPac Complete 2025.10?

Major new features include the advanced IN-Fusion+ processing engine, IN-Fusion+ PP-RTX with support for all business lines, Trimble IonoGuard™ for scintillation mitigation, significantly improved LiDAR Quality Control (QC) Tools (including GCP support and native Riegl format), the introduction of Camera QC Tools for rapid boresight calibration, and a modernized user interface with map background. POSPac Complete also features a streamlined, all-in-one term licensing model.

3. What does “2025.10” signify?

This extension indicates the release year (2025) and month (10).

4. What is IN-Fusion+ in POSPac Complete?

IN-Fusion+ is an advanced engine that supports multi-satellite and multi-frequency GNSS constellations, including BeiDou-III signals. It provides improved performance in challenging GNSS environments (e.g., urban canyons, dense foliage) with better reliability and up to 115% 3D accuracy improvement in poor GNSS conditions.

5. How does IN-Fusion+ PP-RTX work in POSPac Complete?

IN-Fusion+ PP-RTX is a cloud-based global GNSS correction service that uses Trimble's RTX technology to provide centimeter-level post-processed positioning without base stations. The service directly downloads correction data to POSPac Complete without needing to upload trajectory information. It leverages newly available GNSS signals, like BeiDou-III (B1C, B2A), leading to faster convergence times, especially in the Global RTX region (under 3 minutes). “Over-the-air” logged RTX corrections can also be used if an internet connection is unavailable.

6. What is IonoGuard?

IonoGuard is a Trimble technology integrated into IN-Fusion+ that detects ionospheric scintillation, a phenomenon that can degrade GNSS position performance. It helps mitigate these effects, particularly in critical impacted territories like polar regions and areas around the geomagnetic equator.

7. What are Applanix LiDAR QC Tools?

LiDAR QC Tools is a set of optional software tools which can be added to POSPac Complete to enhance the georeferencing accuracy of LiDAR sensors. It can solve boresight angles between the IMU and LiDAR, adjust the vehicle's trajectory based on point cloud alignment, and generate highly consistent and homogeneous point clouds. New features include support for Ground Control Points (GCPs) for improved absolute positioning, support for native Riegl formats, and reduced RAM usage for faster processing.

8. What are Applanix Camera QC Tools?

Camera QC Tools is an optional set of software tools within POSPac Complete that supports the rapid IMU boresight calibration with cameras, and is the robust successor to CalQC. It supports single-head and multi-head (oblique) camera constellations, ensuring unbiased Direct Georeferencing performance. The process is designed to be effortless and intuitive with minimal user interaction.

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9. How is POSPac Complete licensed?

POSPac Complete is licensed with a term license. It offers an "All-In-One" license bundling Single Base, Applanix SmartBase™, and PP-RTX processing. This model provides lower upfront costs, predictable budgeting, and ensures access to the latest software versions and features, including full support and maintenance.

10. Can I share my POSPac Complete license?

Yes, POSPac Complete licenses are floating or network licenses that can be activated on a server computer, allowing other computers on the same network to access and use the license. Additional seats can be added to allow multiple users simultaneously. Licenses can also be commuted temporarily to remote computers for off-network use.

11. Can I upgrade or convert from older POSPac versions to POSPac Complete?

Yes, Trimble Applanix offers special conversion programs for customers with perpetual POSPac V9 licenses, especially those under maintenance or with recently lapsed maintenance. These programs allow users to convert their perpetual licenses to the new POSPac Complete term license at a special price, often equivalent to their annual maintenance fee, while retaining their perpetual license (frozen at the last V9.x release).

12. Can I process Trimble APX data in POSPac Complete?

Yes, all Trimble APX V3 and Trimble APX RTX (V4) data can be post-processed in POSPac Complete. There is no longer a separate install of desktop POSPac UAV software for APX data processing. Data can be

processed if either the "POSPac UAV Complete" term license or "POSPac Complete" term license are enabled. The "POSPac UAV Complete" license only allows data from APX systems to be processed. Note: no license is required to process data from the Trimble APX RTX systems as long as the CenterPoint RTX Complete subscription is enabled on the HW.

13. Is there a limitation in post-processing Trimble APX data with the "POSPac UAV Complete" term license?

Post-processed RTX (PP-RTX) data processing from a Trimble APX V3 is currently limited to 60 minutes of dynamic data. There is no limitation when processing data from the Trimble APX RTX (V4) solutions as long as the real-time CenterPoint RTX Complete subscription is enabled on the HW.

14. What is a term license?

Term licenses allow customers to subscribe to POSPac for one year or multiple years, instead of requiring them to purchase a perpetual license. A term license provides full access to Applanix POSPac software, maintenance and support for a defined period of time. Term licenses allow for flexibility because of a subscription-based model. The upfront costs are much lower versus perpetual licenses, and the software is always eligible to use the latest version, which is key as new features, bug resolutions, and changing technology are constantly being addressed in new features.

Please find term license benefits [here](#) and also study the [FAQs](#).



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