

T IoT

Precise Positioning

High-Accuracy Positioning for Autonomous Vehicles



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Precise Positioning brings the real-time, high-precision GNSS (Global Navigation Satellite Systems) positioning of Swift Navigation's Skylark™ cloud-based corrections service to Deutsche Telekom customers for improved Positioning and Navigation in all kinds of autonomous vehicles, transport, logistics, robotics and mobile applications. Skylark delivers seamless corrections to continents across the globe including the United States, Europe, South Korea, Japan and Australia.

Possible Use Cases



Automotive Navigation



Fleet Management



Rail



IoT Applications



Agriculture/Forestry



Logistics/Transport



Micromobility

Benefits

- <4cm accuracy* with fast initialization
- <20 seconds convergence to sub-meter accuracy
- Seamless coverage over continents
- Hardware-agnostic solution
- Provides the integrity and availability that safety-of-life critical applications require
- Scalable and secure for millions of connected vehicles and devices

* Actual system performance may vary, dependent but not limited to: use-case dynamics, receiver and antenna characteristics. 4 cm 50% accuracy measured over 24 hours stationary with open sky.

Precise Positioning

How does high-precision GNSS corrections work?

Skylark uses observations from GNSS reference stations around the globe to generate a real-time model of atmospheric and other errors affecting GNSS signals.

This correction data is delivered via mobile Internet to the user where it can be seamlessly accessed anywhere within the Skylark network.

Skylark is built from the ground up for the needs of emerging autonomous applications. Skylark reduces initialization times to seconds, ensuring high accuracy and high-integrity positioning is available when you need it.

When used with Swift's Starling® positioning engine, Skylark can deliver Protection Levels (PL) down to 1 m and Target Integrity Risk (TIR) down to 10^{-7} / hour.



Test and Evaluation Kits Available for Automotive and Robotics.

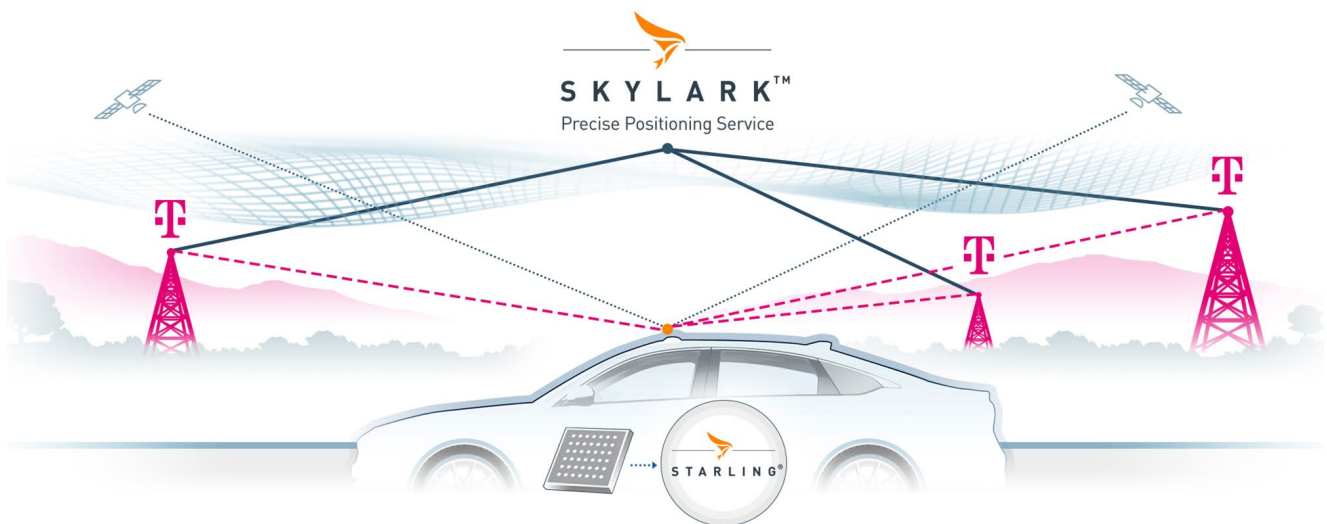
Technical Details

- Supports OSR and SSR corrections
- Provides corrections for GPS L1/L2P/L5 and GAL E1/E5b/E5a
- RTCM v3.1 and v3.2 MSM over NTRIP 2 supported

Product Options

Skylark can be used as a direct cloud access or integrated into your own backend via API.

- Skylark Direct: Simple and easy via NTRIP
- Skylark Enterprise: Full control and integration



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