

# PRECISE POSITIONING CLOUD-BASED CORRECTIONS SERVICE FOR AUTONOMOUS APPLICATIONS



Standard global navigation satellite system (GNSS) positioning is three to five meters in depth. This is not suitable for autonomous systems, which require high-precision accuracy. For higher levels of autonomous capability, they need high-precision localization to deliver accuracy down to the centimeter.

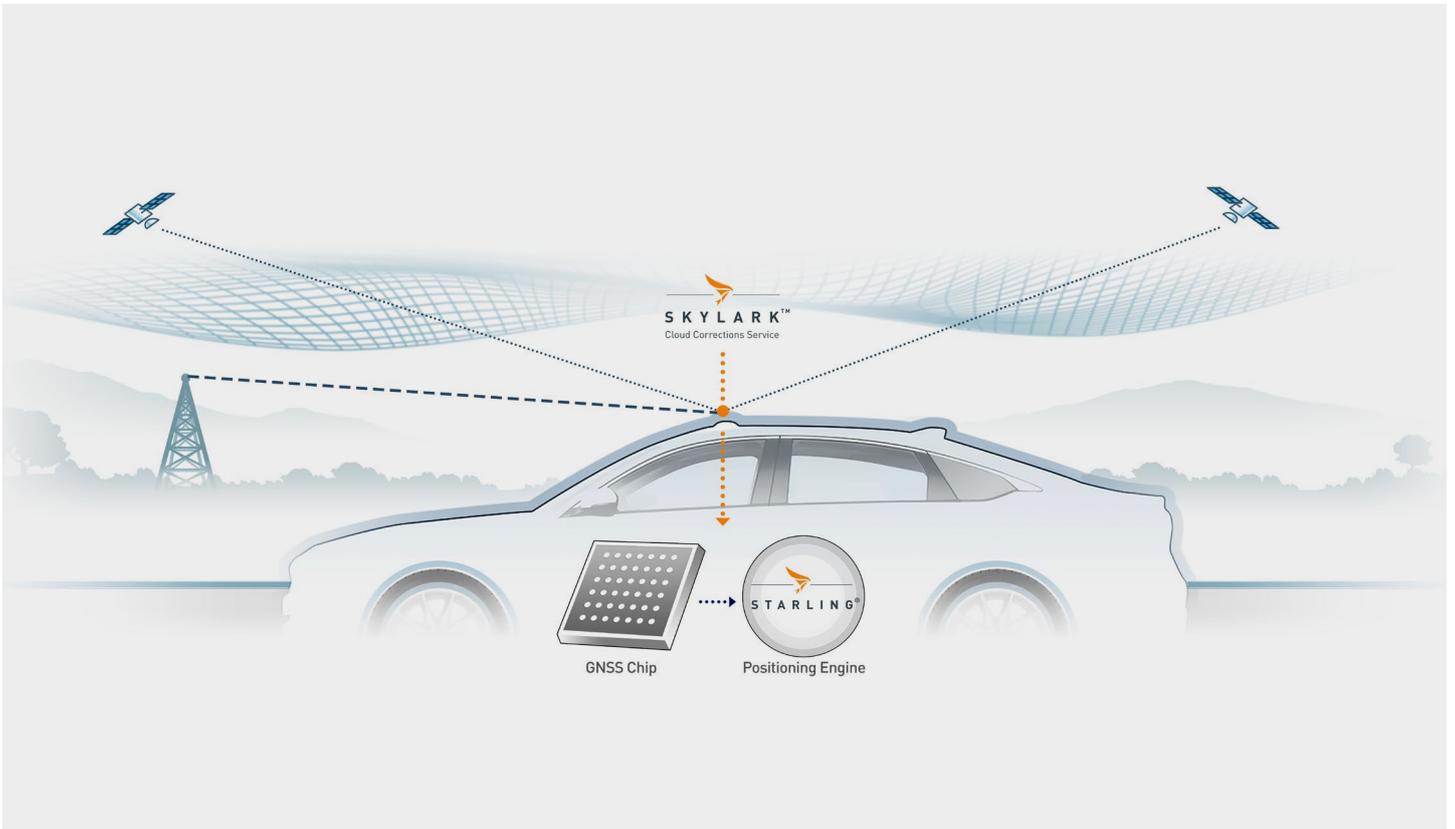
Precise Positioning is a wide-area, cloud-based GNSS corrections service that delivers real-time high-precision positioning to autonomous vehicles. The Precise Positioning service enables the lane-level positioning, fast convergence times, and high integrity and availability required by mass market automotive and autonomous applications.

## KEY FACTS:

- Designed specifically to meet the needs of emerging autonomous applications
- Provides the integrity and availability that safety-of-life critical applications require
- Delivers cloud-based corrections over the internet anywhere within the network
- Scalable and secure for millions of connected vehicles and devices
- Highly accurate with lane-level positioning with fast initialization
- Supports mass market applications, with seamless coverage over continents



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Deutsche Telekom and Swift Navigation, are partnering to redefine GNSS positioning technology for autonomous vehicles and machines. This partnership brings the <10cm accuracy Swift's Skylark™ Cloud Corrections Service to Deutsche Telekom customers.

The service is currently available across the United States and Germany, with expansion across Europe already underway.

From self-driving cars, rail, autonomous robotic machine navigation, autonomous flight for unmanned aerial vehicles, last-mile delivery logistics and construction safety to shared mobile positioning: the prerequisite for autonomy is accuracy. Swift and Telekom's lane-level accurate Precise Positioning is specifically poised to benefit level 2 and 3 automotive applications including advanced driver-assistance systems (ADAS), such as lane assist, highway autopilot, cellular vehicle-to-everything (CV2X) communications and lane level directions.

Precise Positioning is a wide-area, cloud-based service that delivers GNSS corrections for real-time high-precision positioning. The Precise Positioning service is built from the ground up for autonomy at scale. It enables the lane-level positioning, fast convergence times, and high integrity and availability required by mass market automotive and autonomous applications. The service is hardware-independent. This allows customers to choose their GNSS sensor ecosystem. It delivers a continuous stream of multi-constellation, multi-frequency GNSS corrections for a highly available service.

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