



# Correction Services

Powered by TerraStar

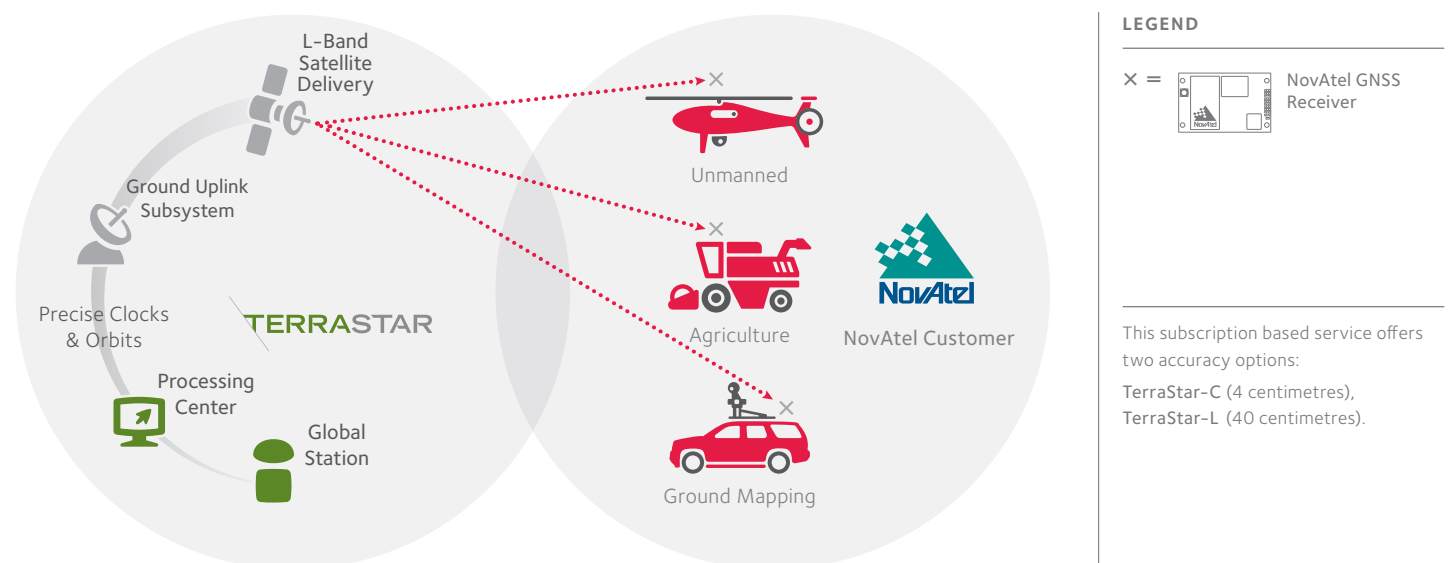
# Exceptional Precise Point Positioning (PPP) Solutions Direct from NovAtel®

FOR LAND, AIRBORNE AND NEAR-SHORE GNSS POSITIONING APPLICATIONS REQUIRING RELIABLE, 24/7, GLOBALLY AVAILABLE CORRECTIONS.

## Corrections From Your Trusted GNSS Partner

Long trusted as a strategic partner for high precision positioning technology, NovAtel now offers a complete solution with correction services delivered direct to your GNSS receiver.

NovAtel CORRECT™, the positioning engine that drives all NovAtel Global Navigation Satellite System (GNSS) technology, incorporates over 20 years of GNSS know-how. Combining NovAtel CORRECT algorithms with clock and orbit data from TerraStar's robust, world-wide reference network means you are assured reliable positioning when and where your application demands.



# NovAtel CORRECT with PPP

The depth of NovAtel's GNSS experience, reflected in how we process correction data in the receiver, sets us apart from other PPP solutions. NovAtel optimizes PPP ambiguity resolution to ensure the full accuracy of carrier-phase measurements is unlocked—greatly enhancing solution accuracy and improving solution recovery following signal interruptions.

## TERRASTAR-C (4 cm accuracy)

This high accuracy service is ideal for real-time pass-to-pass applications requiring centimetre-level repeatability and for high accuracy applications where no base station is available.

## TERRASTAR-L (40 cm accuracy)

For broad accuracy applications, TerraStar-L maximizes uptime and productivity by providing fast initialization to a reliable decimetre position.

## Benefits of our NovAtel CORRECT with PPP solution include:

- » Two levels of service: TerraStar-C (4 cm) and TerraStar-L (40 cms)
- » Simplification of equipment setup by eliminating the need for base station and communications equipment
- » Sole source of GNSS hardware and corrections
- » Corrections delivered direct to end user
- » Equal performance, anywhere on earth
- » Robust performance in variable conditions
- » Maintains decimetre solution through correction outages of up to 5 minutes
- » Supported on NovAtel's OEM6® receivers
- » Corrections delivered via satellite. No additional hardware required

## System Redundancy and Coverage Sets the TerraStar Corrections Network Apart

TerraStar operates, maintains and controls its own network of over 80 GNSS reference stations, ensuring maximum operational reliability with 24 hour monitoring.

Obtaining a position can be a challenge when your operating environment presents challenges like tree lines, partial obstructions from buildings or being far away from traditional RTK infrastructure. TerraStar helps solve this problem with two exceptional data products delivered via L-Band.

Fully redundant, diversely-located Network Control Centers supply data for broadcast over seven independent satellite beams, creating continuous coverage by at least two beams worldwide. Network redundancy, data quality monitoring, and superior GNSS reference stations are just a few of the reasons why the data products generated by TerraStar are highly competitive with other service providers.



**Note:** Darker shading indicates areas covered by 2-4 satellites

## TerraStar Network Infrastructure Overview:

- » Over 80 GNSS reference stations located around the globe
- » 7 Geostationary communication satellites to ensure 2 beams are always visible from anywhere on earth
- » 3 Network Control Centers
- » 24/7 support available as backup to front line support
- » Control over entire data generation process
- » Subscriptions transmitted over a minimum of 3 beams

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# NovAtel Correction Services



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NovAtel Correction Services offer seamless delivery of robust, reliable, globally available corrections. Using TerraStar corrections, NovAtel CORRECT with PPP ensures you have the precision your application requires, when and where you need it.

## Contact Information

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### TELEPHONE

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NovAtel and TerraStar are part of Hexagon.

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