

Standard² Services

GPS Augmentation Service

VERIPOS Standard² is an extension of the VERIPOS Standard service designed to increase the availability of GNSS observations during periods of local masking, ionospheric scintillation or general poor GPS geometry.

Operating in a similar manner to VERIPOS Standard, pseudo-range corrections are derived using the equivalent C/A code and carrier phase measurements for all GLONASS satellites in view. These are then broadcasted over multiple high power delivery satellites. Corrections, which are encoded in standard RTCM format, can be used directly with compatible GNSS equipment, or alternatively, with external processing software, such as VERIPOS Verify QC.

Position accuracy of the combined solution is at the metre level and is similar to the VERIPOS Standard service. However, the main feature of VERIPOS Standard² is the ability to integrate GLONASS, an independent GNSS system, with GPS to significantly increase observation redundancy and provide more robust positioning.

Technical Specifications

Process Type

Single difference (DGPS & DGLONASS)

Observations Used

GPS C/A code & L1 carrier phase

GLONASS L1 code & carrier phase

Availability

Worldwide

Geostationary Satellites

Inmarsat 25E, 98W, 143.5E, AORE, AORW, IOR, POR

Data Format

RTCM SC104 v2.2

Message Types

1, 3, 31, 32

Typical Correction Update Rate

15 seconds

Typical Latency

4 seconds

Typical Average Age of Correction

10 seconds

Normal Accuracy

Up to 1,000 km: 1 m (95%) 1,000 – 2,000 km: 1-2 m (95%)

Ref Station Coordinated Frame

ITRF2014

**Specifications to change without notice.*

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