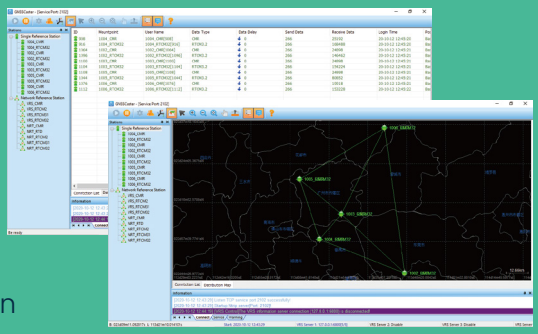
e-survey

GNSS Net

VRS Management Software



GNSS.NET is the software to combine multiple base stations as a network providing VRS service. It includes functions such as station management, user management, physical base station data transmission, VRS service, coordinate system transmission. The system includes two parts “GNSS.NET Reference Data Process Center” and “GNSSCaster” . The first part software is used to manage reference stations and connect all stations as a network to provide VRS service. The second part software is used to create mountpoints and manage user account.

Software

Multi-level Account Management on Website

- Log in to the web-based management platform as an administrator or end-user:
- Administrator: including viewing base station information, managing bills, managing coordinate system, managing Ntrip users, monitoring the server, etc.
- End-user: querying information, checking station information, downloading static data, viewing track, etc.

Source Node Broadcast for VRS and Nearest

Freely choose source node types, including the VRS source node, the differential source node of the actual base station, or the differential source node of the nearest real base station.

Multiple Differential Format for Data Output

Output multiple differential formats, including CMR, RTCM2, RTCM23, RTCM31, and RTCM32.

Multiple Protocols Allowing Access to Base Station Data from Other Vendors

Achieve a network solution whose data is from the original observation data (RTCM3 format) and multiple manufacturers, including Trimble, Hemisphere, and Novatel, and achieve communication via the serial port, TCP, Ntrip, etc.

Website

Social media

Product Specification

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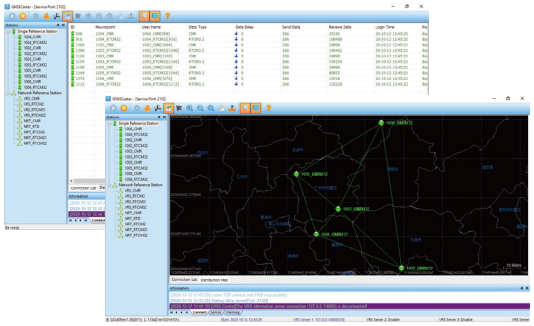

GNSS.NET Reference Data Process Center

Reference Station Management	
Communication	Serial port, TCP server, TCP client, Ntrip client
Station coordinate	Manual input
Station coordinate type	Geocentric coordinate, Geodetic coordinate
Export station	KML, DAT
Export configuration	Support
Station number	At least 5 stations, depend on the subscription

System Setting	
Virtual reference station	Support
Nearest reference station	Support
Recording observation	Support

Network Configuration Parameter	
Supported parameters	■ Maximum distance between stations ■ Minimum distance between stations ■ Range of physical base station ■ Virtual base station network expansion distance

Data Format	
Supported constellation	GPS, BDS, GLONASS, GALILEO
Supported formats	CMR, RTCM2, RTCM23, RTCM31, RTCM32 MSM4
Broad ephemeris	Support
Precise ephemeris	Support

Station View	
Station satellite map	Support
View stations in list	Support
View stations in map	Support Support measuring distance

GNSS Caster

GNSS Caster Function	
User number	No limitation
User authentication	Support
GGA track log	Support
Coordinate system over RTCM	RTCM1021~1027
Coordinate system parameter	■ Ellipsoid parameters ■ Projection parameters ■ Seven parameters ■ Geoid parameters

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