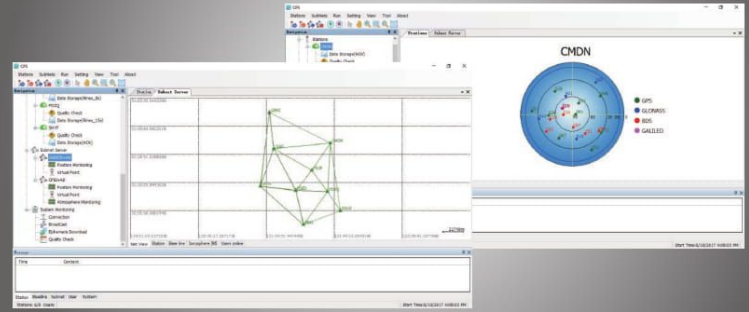


CPS

GNSS Infrastructure

- Support calculation with any combination of the GPS, GLONASS, BDS and Galileo
- Compatible with GNSS reference receivers from various manufacturers
- Distributed deployment with three standalone software to mitigate the operating pressure of large CORS system
- Coverage of large areas
- Various connection protocols such as TCP client/server, UDP client/server, NTRIP, Telnet
- Functionality modules to achieve various purposes such station QC, realtime RINEX data storage, ionosphere values calculation, map viewing, online user reviewing, etc
- SQL Server or Access database
- Windows Server 2008 / 2012
- Unlimited NTRIP accounts
- Easy configuration of the software, full control of the system



The CHC Precision Service, known as CPS, is a new generation of distributed CORS software produced by CHC. CPS supports GPS, GLONASS and BeiDou (BDS), and it is compatible with various reference receiver models from different manufacturers and brands. CPS is designed for large-scale CORS services in large areas. With the optimized analysis of significant systematic errors, like ionospheric, tropospheric, orbit and multipath errors, CPS provides to rover users the optimized spatial corrections from single based and network-based method with services of RTK and DGNS, to help surveyors or application devices to get more reliable and precise CORS services.

Distributed design. CPS is composed of three main software: CHC Stream to connect the data from all reference stations and to stream these data to CPS, CPS to conduct the core calculation and service, and CHC Caster to provide uniform access for large areas. The distributed structure helps CORS administrators easily control and monitor the system, and at the same time breaks the pressure loads of the whole system down to several independent server computers and thus keeps the entire system stable and safe.

All functions are in one package. There are various functionality modules in CPS: a QC module to check the data quality of each reference station; a storage module to convert the real-time raw data from each reference station to RINEX or HCN data. RTK and RTD (realtime differential GNSS) services are both available to provide. Ionosphere values of the local areas are calculated hour by hour. Map view tool shows the locations of reference stations as well as rover users. There is also online user details to indicate the status of the rover devices.



■ Technical Specifications

Functionality

- RTK/RTD Correction: According to the coordinates of rovers, CPS generates correction messages for rover devices, based on the real single reference stations or the simulated reference stations (VRS concept). Support masterauxiliary station technology and RTCM3Net technology
- Quality Check: CPS analyzes the data from the reference stations at real time to check the completeness of the data, the multipath values, and also the cycle slip ratios
- Data Storage: CPS captures the GPS, GLONASS and Beidou observations from the raw data and stores them into RINEX or HCN data. Several storage modules can work at different sample intervals in parallel
- RINEX data of the virtual reference points defined by CORS administrators can also be stored in the local server disk
- Stored static data can be pushed into FTP server
- Online Status: When a rover is using the correction services from CPS, user details are listed such as mount point, NTRIP agent (for example, the surveying software name) when it connected to the service and how long time it has been online, and also its positioning status (fix, float, or DGPS) and current latitude and longitude. Such data is meanwhile recorded into the database for afterwards review or for secondary development
- Online Map View: The locations of the reference stations as well as the rover users are displayed in Google street map or satellite map
- Ephemeris download: To download broadcast and also precise ephemeris files from IGS sources
- Email alarm: To warn abnormal events on given conditions

Capacity

- Reference Station: Recommended 120 stations for one server PC (depending on the hardware specifications of the computer); because of the distributed structure design, several CPS can run in parallel, and therefore the total quantity of the reference stations is not limited, as long as the license covers
- User Account: Maximum 1000 user accounts (depending on the hardware specifications of the computer) for one server PC; when several CPS run in parallel, the total quantity of user accounts is not limited

- RTK Correction Type: RTCM2.3, RTCM3.0, RTCM3.1, RTCM3.2, CMR, CMR+, SCMR
- DGNSS Correction Type: RTCM2.x, message 1,2
- Constellation System: GPS L1, L2, L5; GLONASS L1, L2; BDS B1, B2
- Compatibility: Trimble, NovAtel, Leica, Topcon, Ashtech, Hemisphere, or any other brand devices based on the previous manufacturer's OEM boards; compatible with both reference receivers and rover receivers from these brands
- Communication: TCP server, TCP Client, UDP server, NTRIP, Telnet

Database

- ACCESS: For 32bit CPS; recommended less than 50 stations for single subnet
- SQL Server 2008 / 2012 / 2014, for both 32 and 64bit CPS

Operation System

- Microsoft Windows Server 2008 / 2012
- Microsoft Windows 7 / 8 / 8.1 / 10, 32bit and 64bit

Server PC Specifications

- Processor: minimum dual cores for less than 20 stations, quad core for less than 40 stations; recommended eight core for more than 50 stations; minimum @ 2.0GHz
- RAM: Recommended 4 GB for less than 20 stations, 8 GB for less than 40 stations, 16 GB for more stations
- Hard Disk: 200 MB for CPS software installation; about 100 MB storage space per day per station (more or less depending on the satellites numbers)

Supported Language

- Chinese
- English
- French
- Russian

Specifications are subject to change without notice.

AUTHORIZED DISTRIBUTOR :



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