Parameters

Baseline	CORS VRS Service Single reference station	30-80km 30km
Data Compatibility	Satellites	GPS: L1, L2, L5 BDS: B1I, B2I, B3I, B1C, B2a GLONASS: L1, L2 GALILEO: E1, E5a, E5b QZSS: L1, L2, L5
	Reference stations	RTCM2.X, RTCM3.1, RTCM 3.2, RT27, South Compatible with most brands reference receivers
	Correction data	RTCM2.x, RTCM3.1, RTCM3.2, CMR Mutli-frequency receiver(RTK); Single-frequency Receiver(RTD)

Performance Specification	Network RTK RTD Initialization reliability	1-2cm RMS Horizontal, 3cm RMS Vertical 0.5m Horizontal, 1m Vertical ≥99%
User Volume	Number of base accesses (single server) Concurrent online users (single server) Base equipment Rover equipment	Max. bases: 1000 Max. rovers:20,000 Reference station receivers from major international manufacturers RTK, RTD

Functions

SinoGNSS®

CTNET

COMNAV CLOUD BASED CORS SERVICE

Providing High-precision Service
Anytime, Anywhere

CTNET

ComNav Cloud Based CORS Service consists of CDC.NET (main CORS stream processing engine), CDC+ (Ntrip caster software), VRS service and Base management. The service provides multi-brand reference station access, flexible and diverse data storage, real-time display of ionospheric, multipath, clock error and other data. Additionally, it offers user and service attribute management and completely independent service management, supporting millions of users.

High Concurrency

- Distributed Deployment: Allows flexible expansion to support broadcasting for millions of users.
- Single Node Base Station Support: 1000 base stations and 20,000 rovers

High Availability

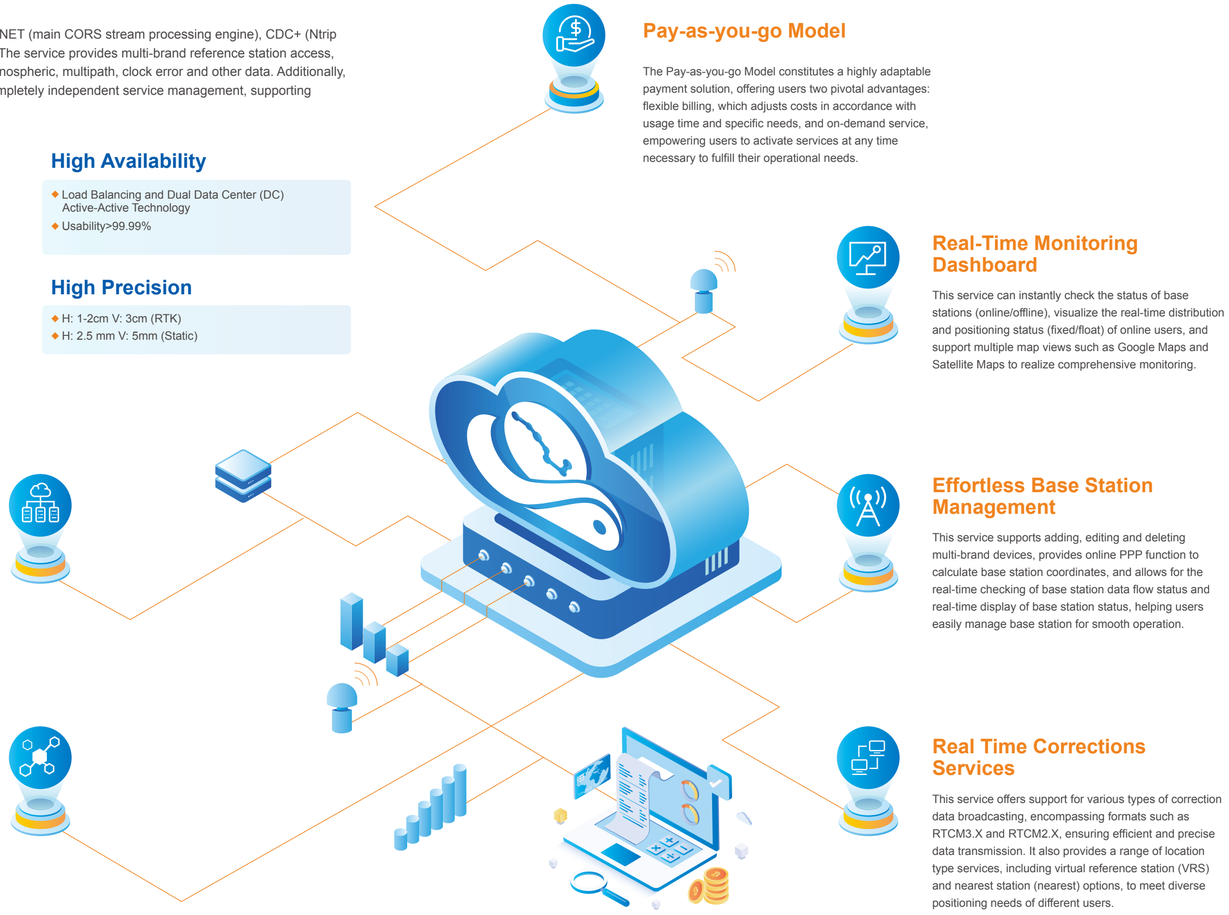
- Load Balancing and Dual Data Center (DC) Active-Active Technology
- Usability>99.99%

High Security

- Disaster Recovery Solutions
- User Data Protection

High Precision

- H: 1-2cm V: 3cm (RTK)
- H: 2.5 mm V: 5mm (Static)



Pay-as-you-go Model

The Pay-as-you-go Model constitutes a highly adaptable payment solution, offering users two pivotal advantages: flexible billing, which adjusts costs in accordance with usage time and specific needs, and on-demand service, empowering users to activate services at any time necessary to fulfill their operational needs.

Real-Time Monitoring Dashboard

This service can instantly check the status of base stations (online/offline), visualize the real-time distribution and positioning status (fixed/float) of online users, and support multiple map views such as Google Maps and Satellite Maps to realize comprehensive monitoring.

Scalable Distributed Deployment

Within the system, each server and node is meticulously designed to function autonomously from the others. This modular configuration guarantees that any issue or failure occurring within a specific segment of the network will not proliferate and detrimentally impact the overall operation of the service.

Effortless Base Station Management

This service supports adding, editing and deleting multi-brand devices, provides online PPP function to calculate base station coordinates, and allows for the real-time checking of base station data flow status and real-time display of base station status, helping users easily manage base station for smooth operation.

Flexible Subnet Management

CTNET offers subnet options for dividing the network into multiple parts, suitable for regions requiring different local coordinate systems. Subnet management enables efficient segmentation and administration, particularly beneficial when regions utilize differing local coordinate systems.

Real Time Corrections Services

This service offers support for various types of correction data broadcasting, encompassing formats such as RTCM3.X and RTCM2.X, ensuring efficient and precise data transmission. It also provides a range of location type services, including virtual reference station (VRS) and nearest station (nearest) options, to meet diverse positioning needs of different users.

Benefits

◆ **Company reputation:** Enhance the company's fame within your country and becomes a recognized and well-known entity in the industry.

◆ **Potential benefits:** As your reputation grows, more users will seek you out, not only for devices but also for CORS services.

◆ **Government project:** Once the company becomes sufficiently renowned and experienced in CORS, your local government may seek your assistance if the country needs to build or upgrade its CORS system.

Application Industries

Surveying & Mapping

Precision Agriculture

Machine Control

Unmanned System

Autonomous Driving & Intelligent Transporation

Robotics