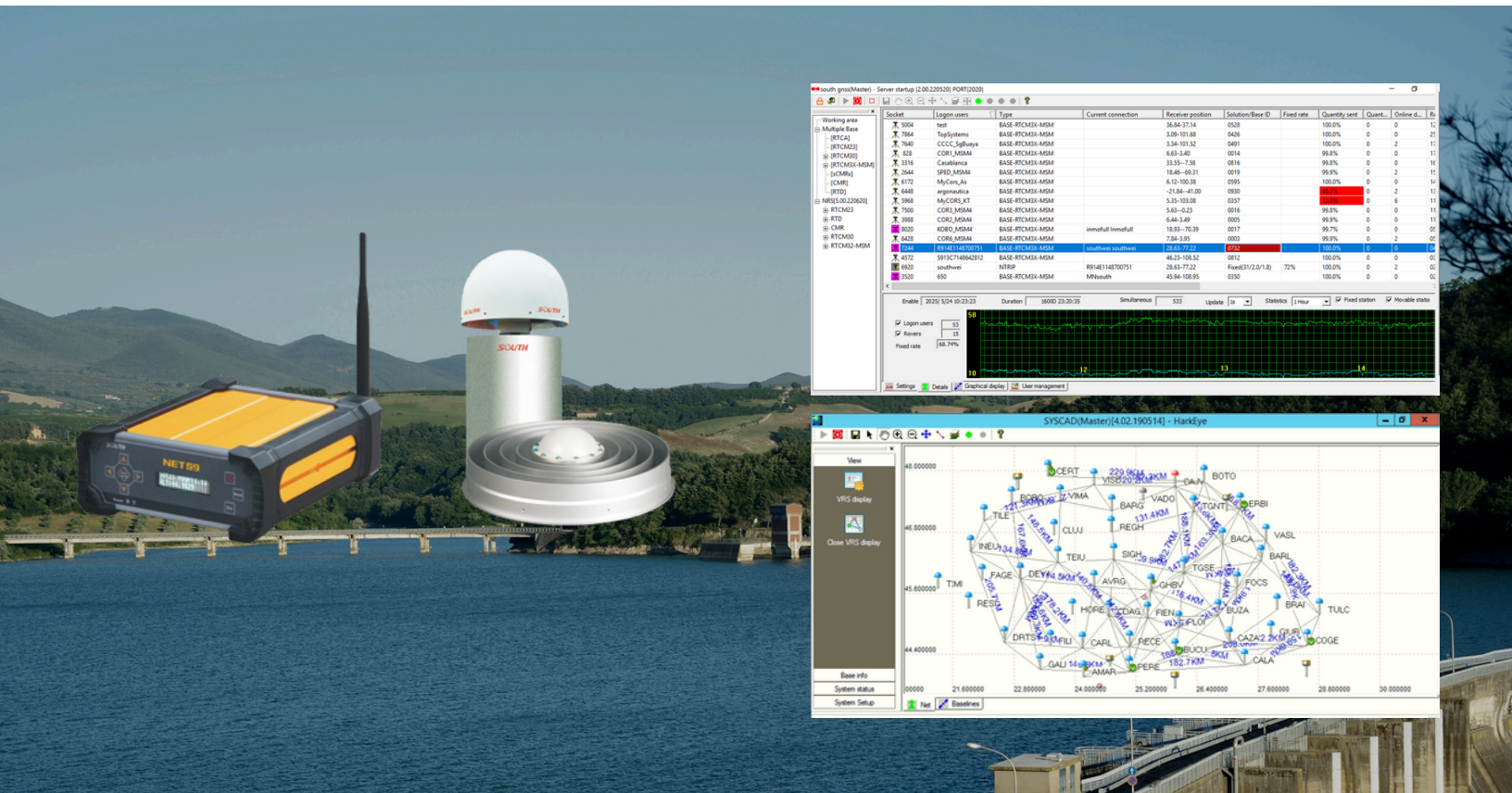


NRS Software

NRS (Network Reference System) CORS software system is developed by SOUTH company independently which can provide proper correction service and data management.



NRS is made up of three software components, which has different function for each component

EagleStation

Manage CORS stations, generate multiple formats physical correction for kinds of users, collect static data and check data quality

EagleNet

Manage CORS stations, generate multiple formats physical correction for kinds of users, collect static data, check data quality, system modeling and generate virtual correction

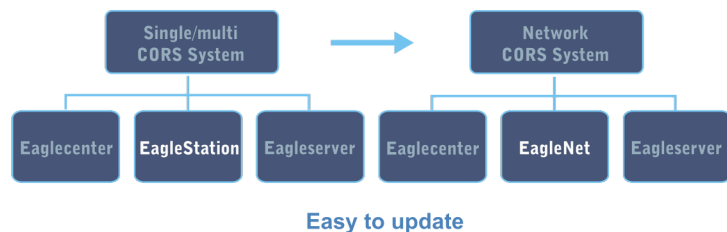
EagleServer

Broadcast corrections and manage users

Features

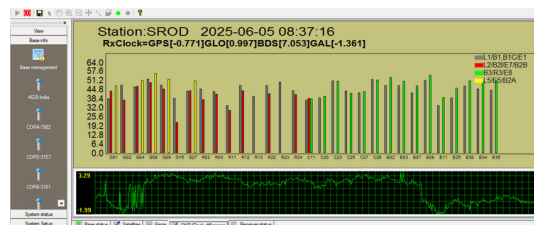
Easy to update from single reference station or multi reference stations to network CORS

You needn't update the previous CORS receiver with new module or change it with new receiver, all you need is to update the CORS software component from Eagle Station to Eagle Net.



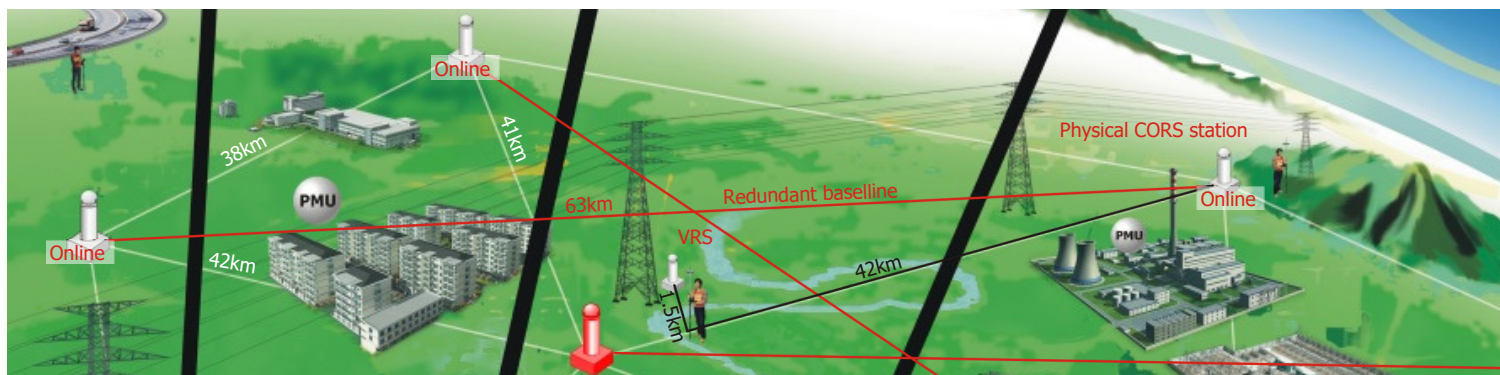
Data quality check

NRS Eagle Net software processes observables real time. before building error model, the software checks data quality with such technical indicators: clock error, multi path error, ionosphere error and troposphere error.



Deep NRS

Redundant baseline is unique algorithm of NRS; it is used to improve the network CORS usability. For VRS solution, it uses 3 stations nearest to rover to calculate network correction. But sometimes, because of poor net speed, there is data delay between stations and control center or stations keep offline. For VRS solution, rover won't get network correction. Instead, it receives physical differential correction from the first nearest station, which is usually too far away to provide high accurate correction. For NRS solution, there is a great improvement because of baseline redundancy: if the 1s nearest station is offline, NRS will choose 2' nearest station to join calculating network correction, rover still get high accurate network correction.



Various network correction generating

With NRS software, correction data can be generated in standard message protocols such as RTCM and CMR. All types Of RTCM outputs are supported including 2.1-3, 3.1 and 3.2

Differential format supported:

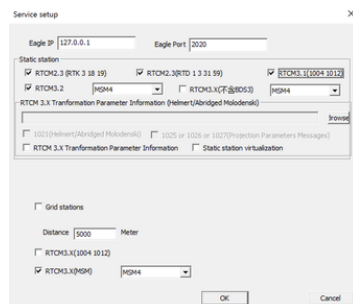
RTCM2.3:TYPE3,TYPE18,TYPE19

RTCM2.3:TYPE1,TYPE3,TYPE31

CMR:CMR0,CMR1

RTCM3.1:RTCM1004,1012,1005,1007,1033,4093,1104

Besides, the raw data can be generated by NRS as RINEX 2 and RINEX 3 international format.



Static data download

Users can download static of all the base stations and all the time as they wish, only if they get authentication from administrator or system manager. The static data format is .STH format or RINEX international format.

