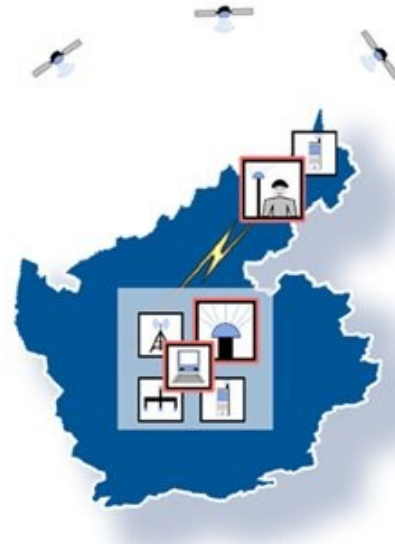


EuroRef

reference station software

EuroRef software supports the continuous operation of permanent GNSS reference stations. The software includes all necessary features for data acquisition, data management and GNSS receiver control. Today following GNSS receivers are supported (additional systems can be implemented on request):

Septentrio (PolaRx 2, AsteRx)	NovAtel (OEM3 & OEM4)
Trimble (4000er series, 4700, 5700, NetRS and similar devices)	
Topcon (GPS & GLONASS)	Thales (series Aquarius)
Locus (SatMate 1000/1020)	Ashtech
Leica (System 500 and 1200)	...



The GNSS sensors can be connected to the EuroRef software through their serial RS232 port or via TCP/IP protocol. Real-time data streams of the GNSS receivers can be stored on the reference station PC, transferred to a NTRIP Internet caster or transmitted through the serial port of the PC via a local data link.

In addition to the GNSS measurements other digital station information like meteorological data can be acquired as well. One special feature of EuroRef is the support of the SatMate series LORAN-C receiver.

EuroRef offers extensive possibilities to store and archive measurement data for post processing applications. Besides the standard RINEX format an own data format is offered to reduce storage requirements. A conversion to exchange data formats RINEX or RTCM is supported.

Operating systems like UNIX or LINUX provide more possibilities for a flexible operation of the permanent reference stations. Remote administration using a web interface and usage of real-time Internet protocols for data transfer make an economic service possible.

In combination with the NtripS 05-Box EuroRef gives a complete solution for Internet based real-time usage with older, not network enabled, GNSS-receivers.

- GNSS reference station software with minimal hardware requirements.
- Station management (control of GNSS receivers and other sensors).
- Data management (acquisition, transmission, storage, archiving, providing).
- Usage of a space saving data format or RINEX for post processing.
- Storage of additional digital station data (i.e. meteorological data).
- Data access in real-time using Internet protocols (NTRIP).
- Output using standard formats and interfaces (RINEX, RTCM).
- Support of SatMate series LORAN-C receiver.