EuroConv

converter software for SBAS-DGNSS correction data

EuroConv software converts SBAS-DGNSS correction data into the RTCM format and allows the transmission of this data through alternative data channels to the user. On the one hand EuroConv gives older GPS receivers without WAAS or EGNOS option the chance to use the SBAS corrections and on the other hand the availability of the SBAS corrections increases because of the use of additional data channels like GSM, radio broadcast or Internet.

As the conversion of the corrections into the RTCM format (currently version 2.3 message types 1 and 3) requires an approximate user position, the SBAS data can be converted for definable reference positions. This is a way to generate Code-VRS corrections out of the EGNOS data stream. The number of parallel data streams for different stations is selectable.

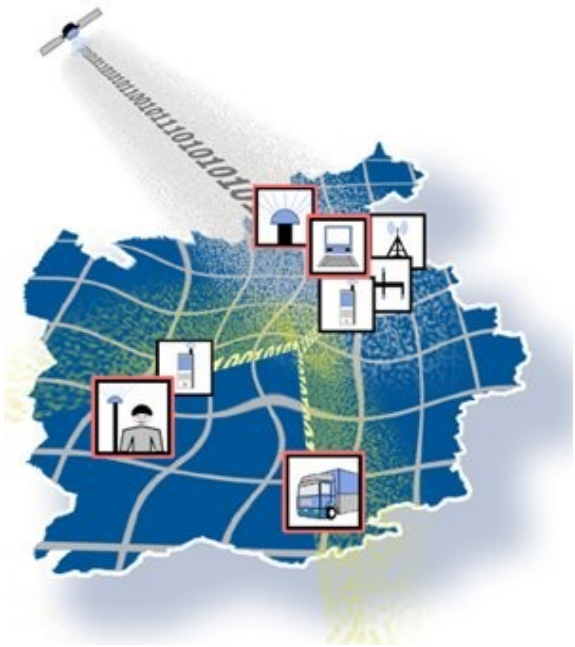
The source of the SBAS data can be the interface of a suitable GNSS receivers or the Internet (SISNeT, NTRIP). For the transfer of the converted RTCM corrections to the user either the Internet (NTRIP support) or other transfer methods (GSM, radio broadcast) can be used.

Especially in urban or forested areas without direct view to the geostationary satellite signals EuroConv enhances the availability of SBAS DGNSS correction data. This increases the acceptance of the satellite positioning in such areas.

EuroConv will not increase the positioning accuracy with SBAS DGNSS corrections. The accuracy is depending on the SBAS infrastructure like the quality of ground based reference data and the data algorithms used for the calculations. Today SBAS corrections provide a DGNSS positioning accuracy in the range of 0.5 to 2 m.

Positioning accuracies below half a meter currently still require a denser network of GNSS reference stations than EGNOS today (see EuroNet software) or a local reference station.

Like our other GNSS software products EuroConv has a modular structure and is not relying on a special operating system (available for UNIX, Linux, Windows).



- Processing and converting of SBAS-DGNSS correction data into RTCM.
- Import of SBAS data directly from a GNSS receiver or using the Internet (SISNeT).
- Generation of multiple data streams for user definable reference positions (SBAS-VRS).
- Support of multiple data transfer methods to the user.
- Customer specific adaptations are possible.

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