

EUPOS (European Position Determination System) a Cooperation of 17 European Countries for Union Use of Spatial Data

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Key words: GPS, GLONASS, Spatial Data, DGNSS, infrastructure

SUMMARY

EUPOS is an initiative to establish a uniform DGNSS basis infrastructure in Central and Eastern Europe (CEE). Uniform multifunctional DGNSS reference station systems and services are going to be build up in fifteen participating CEE countries. *EUPOS* will in the end cover 25% of the European Union territory and more than 60% of the area of whole Europe. Taking into consideration also the Russian territory in Asia, where this infrastructure will be established, *EUPOS* will be realised for an area of about 10 million square kilometers

This fundamental infrastructure is based technically on a network of DGNSS reference stations and adequate communication lines. The data products can be used in many different applications requiring accuracy better than 3 m up to the 1 cm level in real-time and sub-centimeter precision by post-processing. This ‘full scale accuracy’ concept aiming all types of users from environmental protection, transport and public security, hydrography, maritime surveying, river and maritime traffic, fishing, machinery and vehicle control, to spatial data infrastructure developers and to geodesy. *EUPOS* is independent of private company solutions and uses only international and unlimited worldwide usable standards. In case international agreed standards do not exist, *EUPOS* is working on the standardisation in the corresponding organisations like the Radio Commission on Maritime Services, Special Committee 104 (RTCM SC 104). *EUPOS* provides the GNSS observation data and real-time corrections for high precise positioning and navigation with guaranteed availability and quality.

BIOGRAPHICAL NOTES

Dr. Ivo Milev, born 1963. Graduated in 1988 as Dipl.-Ing. in Surveying and Mining Engineering from Technical University of Sofia. Obtaining doctorate degree in 2000 from Technical University of Berlin. Since 1998 Head of Engineering Surveying Development Group of technet GmbH Berlin

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