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Current status of the EPOS WG4 – GNSS and Other Geodetic Data

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WG4 – "EPOS Geodetic Data and Other Geodetic Data" is the Working Group of the EPOS project in charge of defining and preparing the integration of the existing Pan-European Geodetic Infrastructures that will support the European Geosciences, which is the ultimate goal of the EPOS project. The WG4 is formed by representatives of the participating EPOS countries (23) but it is also open to the entire geodetic community. In fact, WG4 also includes members from countries that formally are not part of the current phase of EPOS.
In an ongoing effort, the majority of existing GNSS Research Infrastructures in Europe were identified. The current database, available at http://epos-couch.cloudant.com/epos-couch/_design/epos-couch/, lists a total of 50 Research Infrastructures managing a total of 1534 GNSS CORS sites.
This presentation intends to detail the work being produced within the working group WG4 related with the definition of strategies towards the implementation of the best solutions that will permit to the end-users, and in particular geo-scientists, to access the geodetic data, derived solutions, and associated metadata using transparent and uniform processes.
The first step toward the design of an implementation and business plan is the definition of the core services for geodetic data within EPOS. In this talk, we will present the current status of the discussion about the content of core services. Three levels of core services could be distinguished, for which their content need to be defined. The 3 levels are: (1) the core services associated to data (diffusion, archive, long-term preservation, quality check, rapid analysis) (2) core services associated to geodetic products (analysis, products definition like position time series, velocity field and Zenithal Total Delay) (3) User oriented services (reference frames, real-time solutions for early warning systems, strain rate maps, meteorology, space weather, . . .). Current propositions and remaining open questions will be discussed.