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EPN Status, Monitoring and Network Management at the Central Bureau

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The EUREF Permanent Network (EPN) is a network of more than 210 continuously operating GPS and GPS+GLONASS reference stations maintained on a voluntary basis by the EUREF members. Depending on the station data policy, daily (mandatory), hourly RINEX, 15min high-rate RINEX and real-time data are made available. The EPN Central Bureau is responsible for the day-to-day management of the EPN and acts as liaison between station operators and analysis centres, providing the necessary station configuration metadata and ensuring the datasets meet the requirements of the analysis.
Although EUREF guidelines exist for station equipment, operation and data flow, different institutes use different practices. With the increasing amount of stations, the need for shorter data latencies and the growing number of applications, the monitoring performed by the EPN Central Bureau has become a growing challenge.

This poster has three main topics. First, it will present the status of the EPN, emphasizing the latest developments with respect to e.g. the real-time data streaming, the status of the reprocessing, and the used antenna calibrations. Secondly, the monitoring procedures implemented at the Central Bureau will be outlined. These monitoring procedures permanently verify the EPN tracking data: the data flow (daily, hourly and real-time), the data quality and the metadata. In addition, the submissions provided by the EPN Analysis Centers are monitored and compared to provide feedback to the participating analysis centers. Last, we will show the most important network management procedures applied within the EPN elaborating on the procedure used to include new stations in the EPN.