



## NERA WP21: ORFEUS REMOTE WAVEFORM DATA SERVICES

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The overall objective of workpackage WP21 is to offer a broad range of efficient tools and services to enable efficient access to the waveform data from the Virtual European Broadband Seismograph network (VEBSN) and the networked, distributed European Integrated waveform Data Archives (EIDA) by the scientific community. ODC (ORFEUS Data Center) is the central European data archive for long-term backup storage of waveform data and metadata from European broad-band stations (VEBSN) and provides well-known services like ftp, breqfast, Joque and Wilber to this archive.

New developments and implementation of services, like the ODC Navigator and the standardized FDSN webservice `fdsnws-station` and `fdsnws-dataselect`, provide transparent access to the ODC archive based on new technologies. Further extension of the data selection services are embedded in the development of a new data base schema for characterizing the waveform data by data quality parameters. Within EIDA (NERA WP2) ODC provides waveform data from about 30 networks through the Arlink protocol and related clients (e.g. `arlink_fetch`, `ObsPy`). ODC hosts and maintains the EIDA website, including the WebDC3 interface developed by GFZ, and an up-to-date station map to further extend the services for the user to search for and collect data from the European seismic archives. In collaboration with NERA WP3 ODC is building the European data repository for strong-motion records and related metadata through the development of a webinterface. The current status and developments will be presented

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