Geophysical Research Abstracts
Vol. 19, EGU2017-13770, 2017
EGU General Assembly 2017

The European seismological waveform framework EIDA

Luca Trani (1), Mathijs Koymans (1), Javier Quinteros (2), Andres Heinloo (2), Fabian Euchner (3), Angelo Strollo (2), Reinoud Sleeman (1), John Clinton (3), Klaus Stammler (4), Peter Danecek (5), Helle Pedersen (6), Constantin Ionescu (7), Ali Pinar (8), and Christos Evangelidis (9)

(1) KNMI-ORFEUS, R&DSA, De Bilt, Netherlands , (2) Helmholtz-Centre Potsdam - GFZ German Research Centre for Geosciences, Potsdam, Germany, (3) ETH, Swiss Seismological Service, Zurich, Switzerland, (4) BGR, Hannover, Germany, (5) INGV, Rome, Italy, (6) RESIF, Grenoble, France, (7) NIEP, Bucharest, Romania, (8) KOERI, Bogaziçi University, Istanbul, Turkey, (9) NOA, Athens, Greece

The ORFEUS1 European Integrated Data Archive (EIDA2) federates (currently) 11 major European seismological data centres into a common organisational and operational framework which offers: (a) transparent and uniform access tools, advanced services and products for seismological waveform data; (b) a platform for establishing common policies for the curation of seismological waveform data and the description of waveform data by standardised quality metrics; (c) proper attribution and citation (e.g. data ownership).
After its establishment in 2013, EIDA has been collecting and distributing seamlessly large amounts of seismological data and products to the research community and beyond.
A major task of EIDA is the on-going improvement of the services, tools and products portfolio in order to meet the increasingly demanding users' requirements.
At present EIDA is entering a new operational phase and will become the reference infrastructure for seismological waveform data in the pan-European infrastructure for solid-Earth science: EPOS (European Plate Observing System)3.
The EIDA Next Generation developments, initiated within the H2020 project EPOS-IP, will provide a new infrastructure that will support the seismological and multidisciplinary EPOS community facilitating interoperability in a broader context.
EIDA NG comprises a number of new services and products e.g.: Routing Service, Authentication Service, WFCatalog, Mediator, Station Book and more in the near future.
In this contribution we present the current status of the EIDA NG developments and provide an overview of the usage of the new services and their impact on the user community.

1 www.orfeus-eu.org/
2 www.orfeus-eu.org/eida/eida.html
3 www.epos-ip.org