The European Database of Seismogenic Faults (EDSF) for EPOS: implementation of OGC services and metadata publication

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The European Database of Seismogenic Faults (EDSF; http://diss.rm.ingv.it/share-edsf/; doi: 10.6092/INGV.IT-SHARE-EDSF) is part of the Hazard & Risk pillar of EPOS-Implementation Phase (WP8, Seismology). Its tables contain faults that are deemed capable of generating earthquakes of magnitude 5.5 and larger, and aims at making available a homogenous input dataset for use in the assessment of ground-shaking hazard in the extended Euro-Mediterranean area or for developing regional tectonic and geodynamic models.

In keeping with the goals set forth by EPOS, EDSF data are currently distributed through the Open Geospatial Consortium (OGC) service standards known as WFS (Web Feature Service) and WMS (Web Map Service), both complying with ISO standards.

We present the software infrastructure implemented for the publication of the EDSF-OGC services and of the related metadata. The infrastructure was entirely built using free and open source software. The metadata were published as web services following the recommendations of the EPOS metadata model reference.