



**International Federation of Digital Seismograph Networks**

# Working Group II

FDSN GA 2 – Summary  
IAGA/IASPEI 2021, India (online)



## Retained 2019 Action Items

**Action Item:** ETH will open the discussion about [QuakeML](#) on the WG, including new functionality planned to be included in v2.0.

**Responsible:** John Clinton

**Action Item:** Dmitry Storchak has agreed to lead an effort that will span both FDSN WG2 and COSOI regarding [Event Types](#). He will inform the community about the progress on this discussion and joint effort.

**Responsible:** Dmitry Storchak



## Ongoing Action Items

**Action Item:** [StationXML](#)-Call for general ideas for further development, with a duration of 3 months. A subgroup will review all comments and do a proposal. Will follow decision taking protocol if accepted.

**Responsible:** WG Chair

**Done:** Documentation for StationXML is available. Potential new features and issues collected in the repository Issue Tracker. First classification of issues ready (Thanks to P. Crotwell!). A Review Team has been formed (2 from USA, 2 from Europe).

**Next steps:** The Review Team work should start in the next days. Issues will be evaluated and a Recommendation is expected as an output. Corrections to the standard, or documentation, but also new features for next release.



## Metadata for Legacy Data (Tim Ahern)

### FDSN Framework Proposal for a Metadata Standard for Legacy Seismic Data

Proposal Phase – Community Consensus Phase Type B: new FDSN standard  
Submitted by Tim Ahern, IRIS Emeritus and Lorraine Hwang, UC Davis

**Background:** In September 2019, a workshop was held in Albuquerque, New Mexico where 29 interested parties discussed many topics related to legacy seismic data. A significant outcome of this workshop was the identification of important metadata needed to assist in the discovery and use of legacy seismic data. The workshop report can be found at <https://eartharxiv.org/repository/view/418/>. Workshop participants began with a set of metadata elements that have been used in a variety of data rescue projects around the world. Participants reviewed these elements and gave their opinion as to whether each element should be included in any metadata standard developed for legacy data. Workshop participants also suggested modifications to proposed elements and many made suggestions for additional elements that should be considered.

**Action Item:** Send proposal to the WG with a Call to form an *Proposal Review Team*.

**Responsible:** WG Chair



## miniSEED 3 (Chad Trabant)

🏠 FDSN miniSEED 3



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### Overview

The [International Federation of Digital Seismograph Networks](#) (FDSN) defines **miniSEED** as a format for digital data and related information. The primary intended uses are data collection, archiving and exchange of seismological data. The format is also appropriate for time series data from other geophysical measurements such as pressure, temperature, tilt, etc. In addition to the time series, storage of related state-of-health and parameters documenting the state of the recording system are supported. The FDSN metadata counterpart of miniSEED is [StationXML](#) which is used to describe characteristics needed to interpret the data such as location, instrument response, etc.

#### Note

This specification defines version 3 of miniSEED. See [Background](#) for information on earlier versions.

- [Overview](#)

**Action Item:** Send proposal to the WG with a Call to form an *Evaluation Review Team*.

**Responsible:** WG Chair



## **GNSS data into seismological workflows**

**Action Item 1:** Identify the groups within the FDSN that are already working on this topic and together prepare a white paper about the GNSS data integration in Seismology.

**Responsible:** GFZ with collaboration from other groups

**Action Item 2:** Based on that, develop guidelines to address the immediate needs (short term) and start a discussion within this group for the long term options.

**Responsible:** GFZ with collaboration from other groups