Minutes for the FDSN closing plenary

26 August 2021

Online, India

Attendees:

Sergio Barrientos (DFG, CHILE)

Seiji Tsuboi (JAMSTEC, Japan)

Xyoli Pérez-Campos (UNAM, Mexico)

Johannes Schweitzer (NORSAR, Norway)

Wen-Tzong Liang (Inst. Earth Sciences, Taiwan)

Peter Voss (GEUS, Denmark)

Nikolaus Horn (ZAMG, Austria)

Carlo Cauzzi (ORFEUS, Europe)

Hugh Glanville (GA, Australia)

Javier Quinteros (GFZ, Germany)

Peter Danecek (INGV, Italy)

Ludek Vecsey (CRSN, Czech)

Rob Casey (IRIS, USA)

John Clinton (ETH, Switzerland)

Raja Acharaya

Abdul Azeez

Chad Trabant (IRIS, USA)

Michelle Grobbelaar (CGS, South Africa)

Tim Ahern (EarthScope-Oceans, USA)

Minutes:

Sergio Barrientos chaired the meeting

1. Opening

Sergio welcomed everybody to the closing plenary of the FDSN.

2. Adoption of the agenda

The agenda was adopted by the representatives attending the meeting with the following additions:

- Nominations committee
- Updating of the website
- DOI metadata
- Status of the membership fees within TOR

3. Executive Committee Election

The following people were unanimously voted (no objections and no abstentions) into the corresponding positions:

Chair: Michelle Grobbelaar

Secretary: Jerry Carter
WGI: Wen Tzong Liang
WGV: Wayne Crawford
WGV (vice): Kent Andersen

However, since Jerry Carter has not formally accepted the nomination, Michelle should first confirm with Jerry Carter. If he does not accept, then the steering committee can vote for another candidate.

4. <u>**Working Group reports and recommendations**</u>

4.1 <u>WG I:</u> Wen-Tzong reported on the meeting which they had on Monday, 23 Aug @ 16:45-18:45 (IST). The action items from the meeting are as follows:
- o Validation of the WG1 webpage.
- o Guidance of station selection – revision of the definition of FDSN backbone stations.
- o Find candidates to extend/densify the FDSN backbone list.

4.2 <u>WG II:</u> Javier reported on the meeting which they held on Monday, 23 Aug @ 20:15-22:15 (IST). There were a few action items from 2019: QuakeML (but there was no advance and it will be kept on the list for the next two years), event types (but there was not advance and it will be kept on the list for the next two years).

The action items from the meeting are as follows:

- StationXML – draft documentation has been offered for review and comments, which are being examined by the review team for recommendation for the next release.
- Metadata for legacy data –will share proposal with the community for comments and a review team will be formed to look at the comments and suggestions.
- MiniSEED3 – the final proposal now includes the comments and suggestions which were obtained from the community and it is now at a stage where an evaluation team will be formed to evaluate the implantation.
- GNSS data – a call for groups working with the data from a seismological perspective to come up with ideas on how to incorporate the data, so that the group can create guidelines for everyone to move in a coordinated way.

4.3 <u>WG III:</u> Chad reported on the meeting which they held on Tuesday, 24 Aug @ 20:15-22:15 (IST). Retained a number of action items from the 2019 meeting: (a) Quality of service standard, (b) EIDA proposal related to a new authentication system, (c)

Standardisation of the required data quality assurance API, (d) Once the quality assurance API has been defined, seek funding to support inclusion into SeisComp3.

The new topics are as follows:

- SeedLink version 4 proposal – to be sent to mailing list for comments and suggestions and to form a review team/process. Early implementation is available, especially for the evaluation process.
- Authentication proposal for all web service specifications – send out call for discussion to continue the discussions that started in the meeting and to determine the correct actions to take.
- Status of data centre registry – agreed that in order to promote registration, an email can be generated and sent broadly to general mailing list, as well as coordinators in various regions. In addition, an article published in a journal.
- FDSNWS -event standardisation of JSON – call for a proposal evaluation team to investigate the potential for an existing standard to adopt or develop one.

4.4 **WG IV:** Chad reported, on behalf of the chair, on the meeting which they held on Wednesday, 25 Aug @ 16:45-18:45 (IST). He reported on:

- The action item of authorisation of adding authentication to FDSNWS-event and FDSNWS-station, which is still in progress.
- The Chair has over the years suggested recommendations to the CTBTO WGB meetings and has encouraged FDSN participation at a number of CTBTO workshops and meetings.
- There were a few organisational changes at the CTBTO
- CTBTO continues to make changes to NDC-in-a-Box, including SeisComp3 and FDSN formats.
- Would like to encourage CTBTO to allow the metadata of the stations to be open.
- There was also a CTBTO overview from Ronan Le Bros, which was positive. Ronan mentioned that the EU is funding a project to provide software which implements FDSNWS for CTBTO and a call for proposal should be posted on their website over the next few months.

4.5 **WG V:** Wayne reported on the meeting which they held on meeting on Wednesday, 25 Aug @ 20:15-22:15 (IST). Reviewed the 2019 action items;

(a) SOH – a proposal and spreadsheet was produced by previous Chair, but will have to find out how is was distributed and what is outstanding,

(b) Form a groups to establish requirements for documenting moving stations – a proposal was presented that aims to address data that SEED doesn't handle. Send out proposal for comments and suggestion and then evaluation and adoption. Will form a team to review and evaluate.

Wayne also presented on a 2017 action item:

    o   Digital filters for data decimation – agreed that (a) minimum standards should be determined for dataloggers, (b) evaluate the effect of existing software decimation on data, (c) establish standard for software decimation. (d) implement the standards in a publicly available tool that creates data and metadata on the entire time series

In addition, there was a discussion on the collection of OBS facility data/metadata creation – will collect results from questionnaire that was sent to 18 OBS facilities and then send out a second questionnaire which captures any suggested additional questions and a compiled summary will be sent to WGV.

5. <u>Resolutions</u>

The issue on the data licensing policy that was raised by Jerry in the opening plenary on 22 August was discussed. Javier briefly went through the proposal again. It was agreed that this is a cross-cutting issue that involves a number of the working groups and that the issue requires more discussion and thought.

It was recommended that an adhoc committee/WG should be formed by Execom to:
Formulate a concept/policy document which covers the reasons and background and how to implement licensing and redistribution. The committee should look internationally and should also decide on a time frame.

6. <u>Any other business</u>
<u>6.1 Nominations committee</u>

There was a suggestion to form a nomination committee to assist with the collecting nominations for future Execom elections.

It was agreed that there should be a committee of 3-5 people that is formed by Execom at about 6 months before the steering committee meeting and should have nominations approximately 6 weeks before meeting (it could be chaired by someone that used to be on Execom and is not interested in being re-nominated).

<u>6.2 Updating of the website</u>

It was noted that the website is stale and requires updating.

The WG chairs and Execom have a responsibility to update website and contacting the webmaster (webmaster@fdsn.org). Should share with all (Chairs and Execom) how to make

changes. WG chairs are responsible for the content of WG pages and Execom is responsible for the rest. In addition, it was agreed that an email be sent out requesting suggestions to be sent to respective Chairs.

6.3 DOI metadata

There are differences in DOI's, even though there are recommendations in place. Thus, an update in the recommendations is required and they should be reviewed, and improvements identified. In addition, there should be an effort at including licencing within DOI's and clearly mention the correct fields.

It was agreed that the steering committee request WG3 to tackle the problem and Javier was asked to type up a summary of the issue in order to address it correctly within WG3.

6.4 Status of the membership fees within TOR

The TOR were amended during the last steering committee in Montreal where membership fees, with corresponding voting rights when it comes to financial matters, were introduced. The agreement was that IASPEI could assist with collecting the fees on behalf of FDSN, however, IASPEI would rather avoid having to do it as it becomes burdensome to manage and audit.

Suggest that the next Chair works together with IASPEI Secretary General to establish a practical solution and process. Should start to raise money, bank with IAPSEI and come up with a process and structure for the management of membership fees. Perhaps request members to also make suggestions. This could also lead to changes in ToR to introduce a treasurer. In addition, there should be a request to institutions to make a commitment to become contributing members.

7. Action tracking list

It was recommended that all meetings of the Steering Committee begin identifying an Action Tracking List identified during steering committee meetings in a manner similar to the way Working Groups are now functioning. For the action tracking list from this meeting please refer to page 6.

8. The meeting was adjourned at 22:15 (IST)

Action tracking list:

	Item	Date
1.	Michelle should confirm with Jerry Carter whether he would like to accept the position of secretary. If he does not accept, then the steering committee can vote for another candidate.	As soon as possible.
2.	It was recommended that an adhoc committee/WG should be formed by Execom to: Formulate a concept/policy document which covers the reasons and background and how to implement licensing and redistribution. The committee should look internationally and should also decide on a time frame.	Before Berlin meeting in 2023.
3.	It was agreed that there should be a committee of 3-5 people that is formed by Execom at about 6 months before the steering committee meeting and should have nominations approximately 6 weeks before meeting (it could be chaired by someone that used to be on Execom and is not interested in being re-nominated).	6 months before Berlin meeting in 2023
4.	The WG chairs and Execom have a responsibility to update website and contacting the webmaster (webmaster@fdsn.org). Should share with all (Chairs and Execom) how to make changes. WG chairs are responsible for the content of WG pages and Execom is responsible for the rest. In addition, it was agreed that an email be sent out requesting suggestions to be sent to respective Chairs.	As soon as possible
5.	It was agreed that the steering committee request WG3 to tackle the problem of DOI's and identify any improvements. Javier was asked to type up a summary of the issue in order to address it correctly within WG3.	Before Berlin meeting in 2023.
6.	Chair and Execom to work together with IASPEI secretary general to establish a practical solution and process for management of membership fees. Perhaps request members to also make suggestions. This could also lead to changes in ToR to introduce a treasurer. In addition, there should be a request to institutions to make a commitment to become contributing members.	Before Berlin meeting in 2023.