

FDSN Working Group III Report

Closing Plenary Meeting IAGA/IASPEI 2021, India (online)



Retained 2019 Action Items 1/2

Action Item: Related to QoS standards. Once feedback had been incorporated, a Survey Monkey will be developed to get input from data centers as to the priority order that they should be implemented as QoS standards for the Federated System.

Responsible: IRIS

Action Item: When an EIDA proposal related to a new authentication system is

ready it should be distributed to the WGIII for comments.

Responsible: EIDA



Retained 2019 Action Items 2/2

Action Item: Standardisation of the required QA service API including request parameters, and is expected to be coordinated between IRIS and EIDA, those being the two Quality systems in operation at EIDA and IRIS.

Responsible: IRIS and EIDA

Action Item: An action was proposed that after the QA service API has been defined, then look towards getting this into SeisComp3 assuming funding can be found.

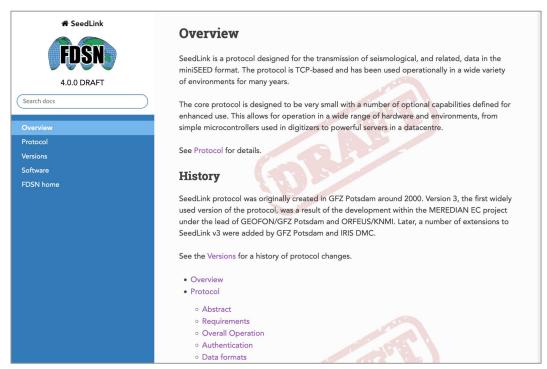
Responsible: FDSN



SeedLink v4 Proposal

An overview of a next generation SeedLink protocol specification was presented.

A Joint development of GEOFON and IRIS.



Action Item (2021): Send SeedLink v4 proposal package to mailing list and solicit parties interested in participating in the Proposal Review team for this submission.

Responsible: GEOFON, IRIS and WG Chair



Authentication for all web service specifications

CTBTO IDC requested that the web service specifications for fdsnws-station and fdsnws-event allow an authentication mechanism, i.e. as supported by fdsnws-dataselect.

Suggestions actions discussed:

- 1. Modify *all* web service specifications to include the *optional* queryauth method.
- 2. Advise CTBTO to implement the same authentication as fdsnws-dataselect even though it is undocumented
- 3. Make not changes

Concerns discussed included supporting increased data and metadata authorization is counter to the FDSN mission of promoting open data, supporting the positive direction of the CTBTO in this regard, and the effect of the specification on software implementers.

Action Item (2021): Call for discussion on the mailing list to determine the appropriate action to the request to include a *queryauth* method, the fdsnws-dataselect authorization mechanism, in all web service specifications or alternative solutions. A discussion period will be followed by a vote, potentially for a small variety of options.

Responsible: WG Chair and WG





Data Center Registry

This new service was discussed with these highlights:

- DOI or free-form Citation for <u>Data Center</u>
 - Separate citation from data via network DOIs
- More data centers exist, how to promote registration?

Action Item (2021): Data Center Registry, regarding how to best encourage registrations: Generate a message to be circulated by the FDSN via email, and specifically targeting coordinators in different regions, and potentially being translated into other languages.

A follow-on action may be to write an article to broaden awareness. Suggested journals were SRL and EOS. EOS in particular has a broad range and support for multiple languages.

Responsible: WG Chair and FDSN Chair





Potential JSON standardization for fdsnws-event

A question was raised about the potential for standardizing a JSON-formatted output for the fdsnws-event service, noting that different data centers are already offering JSON but in different, incompatible formats.

Action Item (2021): Call for an ad hoc committee to investigate the potential for a standard to adopt or develop for JSON output from fdsnws-event

Responsible: WG Chair