

on the International Data Centre Seismic, Hydroacoustic and Infrasound Reengineering Project and Station State of Health

Wednesday, 21 June 2023 10:20 (1 minute)

The International Data Centre seismic, hydroacoustic and infrasound (SHI) reengineering project began in 2014 with the goal of creating modernized, open-source software for SHI processing, and improving maintainability and extensibility to the system. Since 2019, the project is under active development, and the current main area of work is the elaboration of a modernized station state of health (SOH) system. This system monitors in real time the performance and status of the International Monitoring System. The future system is based on the Geophysical Monitoring System being developed for the US National Data Centre and shared as a voluntary contribution. It is being extended to address Provisional Technical Secretariat-specific monitoring requirements. This poster introduces the general architecture and highlights recent progress on the implementation of the new SOH monitoring features.

Promotional text

The PTS is developing a modernized station state of health system to monitor in real time the status of the IMS. This poster introduces the general architecture and highlights recent progress on the implementation of PTS-specific monitoring requirements.

E-mail

thibault.arnal@ctbto.org

Oral preference format

Primary author: ARNAL, Thibault (CTBTO Preparatory Commission)

Co-authors: Mr TETAK, Andrej (ATOS/Code2b); Mr BREITENFELLNER, Helmuth (CTBTO Preparatory Commission); Mr VUCKOVIC, Jaksa (Zühlke Engineering); Mr GREZNAR, Jozef (ATOS/Code2b); Mr BUGARINOVIC, Marjan (Zühlke Engineering); Mr BILLMANN, Maurice (Zühlke Engineering); Ms MILJANOVIC TAMARIT, Vera (CTBTO Preparatory Commission)

Presenter: ARNAL, Thibault (CTBTO Preparatory Commission)

Session Classification: Lightning talks: P2.5, P4.1, P4.2, P4.3

Track Classification: Theme 4. Sustainment of Networks, Performance Evaluation, and Optimization: T4.1 Performance Evaluation of the International Monitoring System and On-Site Inspection and their Components