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-in-a-Box (NIAB) results of work in Australian NDC

Capacity building effort of PTS to provide NDCes with software to independently reproduce IDC SHI catalogue has led to development and provisioning of the system NDC -in -a-Box (NIAB).

We present the results of work of NDC-in-a-Box (NIAB) containing the NET-VISA associator integrated with SeisComp (SC). Our configuration of SC also enables usage IDC DFX detector and Netvisa associator for non-IMS stations - the seismic stations of Australian National Network and other stations in regions of interest. In 2023 we introduced automatic processing of infrasound data in regions of interest and incorporated results into NET-VISA processing.

Latest version SC6.5 is in use since 2025. It calculates IDC magnitudes - mb_ave and mppln in automatic and interactive mode and comparison of calculated locally calculated with one in IDC is provided. Detailed review of some of the most interesting events detected automatically by SC/Net-visa within Australia and nearby regions is presented.

SC with Net-Visa associator and whole NIAB 7 suit show promising performance and can be a reliable verification software with ability to satisfy also requirements for regional and local monitoring.

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