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Enhance Data Quality Control with Interactive Station Monitoring Tools in the OPS Center

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The International Monitoring System (IMS) is a globally distributed network of monitoring facilities using sensors from seismic, hydroacoustic, infrasound, and radionuclide technologies. The need for data availability increased the significance of data quality monitoring. This task is addressed through the creation of a platform for the fast and easy identification of data acquisition problems, as well as regular activities to ensure that station characteristics meet the requirements of the IMS draft Operational Manuals. The Provisional Technical Secretariat (PTS) has developed a Multi-Technology Integration Portal (MuTIP) internal platform with a variety of monitoring tools to facilitate data quality monitoring. MuTIP facilitates PTS user access to information allowing technical review of data quality and analysis through the aggregation and representation of technical results from a variety of internal PTS data sets and databases. MuTIP provides information such as station summary (PSD/PDF, Residual, and Calibration). MuTIP has also interfaced with Grafana (SOH), PRTools, JIRA instances (IRS, ITS, SHD), CAMT, DOTS, and International Data Centre databases. MuTIP provides good support for data quality monitoring in terms of troubleshooting (reliability, efficiency, accuracy, and timeliness) to maintain good station/IMS network performance in daily OPS data monitoring. Ensuring that the station is operating properly, especially in meeting data (availability, surety, and quality) requirements.

Team work with IDC OPS colleagues.

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Promotional text

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Oral preference format

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