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Network Data Sharing

Treaty monitoring technologies, including radionuclide monitoring technologies, are advancing rapidly, becoming increasingly robust and cost-effective. Various nations are investing in these technologies, creating national networks with a higher density of sensors compared to the International Monitoring System (IMS). These denser networks offer enhanced precision in characterizing radiological background and locating sources. Sharing these national networks data among nations significantly increases their value compared to individual networks. There is a pressing need to develop a secure method for sharing data generated by national networks that operates outside the framework of the International Data Center (IDC). The Pacific Northwest National Laboratory (PNNL) is developing an architecture for such data sharing, inspired by the current data sharing architecture of the Source Term Analysis of Xenon (STAX) program.

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