

RNIAC: A cloud-based approach of the Radionuclide National Data Centre (NDC) in a Box software (RNIAB)

The introduction of the Radionuclide NDC-In-A-Box (RNIAB) was a mile stone in the treaty verification. The software is helping the Radionuclide community to get the latest and utmost of the Radionuclide data, analysis and review. However, maintaining and operating such complex software is a complex task and lacks the means of exchanging information and data analysis among the state parties. The aim of this research is to study the possibility of adopting, implementing and operating a cloud-based version of the RNIAB. The research benefits from the rapid and growing advances in communications and cloud solutions and services. Implementing such approach may increase the usage and operability of the Radionuclide software remotely and efficiently. Also, it can increase the exchange of information and Radionuclide data analysis among the National Data Centers as well as reduces efforts and time of maintainability of the software. The challenges to such approach will be presented. Also, the different cloud-based solutions and databases will be discussed. The methodology, models and techniques to achieve the proposed research will be introduced as well as future directions.

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