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Technical Solution for Improved Safeguards/State Cooperation

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This paper will discuss an information technology solution to allow the IAEA Safeguards Department to improve cooperation with States. The solution will be a portal or hub to integrate the information, processes, and people between Safeguards and States. It will allow for two-way communication and collaboration between Safeguards staff and State representatives. This paper discusses the information security challenges inherent in building such a system. It proposes technical architectures that might allow the existing integration approach (e.g. encrypted email exchange) to be kept, while expanding it to include modern integration technologies (e.g. web services), as well as exploring new collaborative web technologies. It looks at current Safeguards processes and approaches to cooperation and discusses efficiencies that could be achieved through the adoption of this technology solution.

Example process areas for improvement include:

- Safeguards Agreements: States are obligated to submit data on their nuclear programme to the IAEA on a periodic basis. Declarations are received through two separate systems using encrypted email. The proposed solution would allow for enhanced exchange of declaration where States can submit any type of declaration using one system. When declarations are received and validated, an acknowledgement would automatically be sent to the States. The solution would provide the Safeguards Department the ability to ask for clarification as well as collaborate on the submitted declarations. Both the question and the response would be recorded in the system. The solution could also integrate tools allowing declarations to be added directly and validated before submission.
- Other areas that could benefit from this solution include declarations from States with small quantities protocol, facility declarations, as well as systems that support extra-budgetary funding (e.g. SPRICS).

Country or International Organization

IAEA

EPR Number (required for all IAEA-SG staff)

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