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## Tools for Trade Analysis and Open Source Information Monitoring for Nonproliferation

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The new state level approach being proposed by IAEA envisions an objective based and information driven safeguards approach utilizing all relevant information to improve the effectiveness and efficiency of safeguards. To this goal the IAEA makes also use of open source information, here broadly defined as any information that is neither classified nor proprietary. It includes, but is not limited to: media sources, government and non-governmental reports and analyses, commercial data, and scientific/technical literature, including trade data.

Within the EC support programme to IAEA, JRC has surveyed and catalogued open sources on import-export customs trade data and developed tools for supporting the use of the related databases in safeguards. The JRC software The Big Table, (TBT), supports i.a.: a) the search through a collection of reference documents relevant to trade analysis (legal/regulatory documents, technical handbooks); b) the selection of items of interests to specific verifications and c) the mapping of these items to customs commodities searchable in trade databases. In the field of open source monitoring, JRC is developing and operating a “Nuclear Security Media Monitor” (NSMM), which is a web-based multilingual news aggregation system that automatically collects news articles from pre-defined web sites. NSMM is a domain specific version of the general JRC-Europe Media Monitor (EMM). NSMM has been established within the EC support programme with the aim i.a. to streamline IAEA’s process of open source information monitoring.

In the first part, the paper will recall the trade data sources relevant for nonproliferation and will then illustrate the main features of TBT, recently coupled with the IAEA Physical Model, and new visualization techniques applied to trade data. In the second part it will present the main aspects of the NSMM also by illustrating some of uses done at JRC.

### Country or International Organization

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