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## Equipment Smart Management Solution Based on RFID

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Equipment is mission critical for CTBTO verification pillars. Within the 3 Divisions of CTBTO, IMS, IDC and OSI, the categories and volumes of equipment are increasing with the non-stop and quick development of the verification infrastructure. Equipment management could be either an efficiency improving factor or bottle neck for the functioning of CTBT verification engines, like a double-edge sword. Take the OSI as an example, effective equipment management is crucial for current OSI exercises and operations after the EIF. During OSI operations, according to OSI operation concept and search logic, VO, SAMS, RN, CPT, LA teams would be mixed together to form Field Teams for every day mission, equipment would also be mixed together, this would greatly increase the scale of complexity of OSI equipment housekeeping effort, which has been already a practical challenge for IT and IT members. This work would carry out a system solution to CTBTO equipment solution based on recent RFID technology. Varieties of sticker RFID, anti-metal RFID, High-frequency and Ultra-high frequency RFID labels, and auxiliary devices would be utilized to meet the practical scenarios of CTBTO requirements. This practical solution has already been applied to CTBT Beijing NDC and Beijing RL for daily equipment management.

### Promotional text

This work would provide a practical equipment management solution to CTBTO based on RFID, which has already been applied to Beijing National Data Center and Beijing Radionuclide Laboratory for daily equipment management.

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