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## key COTS equipments' potential application to CTBTO OSI

Position-Finding/Navigation, Field Communication, UAVs and Near-Field -Communication are all commercial-off-the-shelf equipments, which are widely used in everyday life nowadays. This paper is dedicated to the potential use of those above mentioned equipments in the CTBT technical framework and real OSI scenarios, as well as to provide engineering system solutions. Essential philosophy of keeping balance between OSI mission efficiency and least intrusiveness should be borne in mind.

Position-Finding/Navigation: 4-mode navigation system solution involving GPS, GLONASS, BEIDOU and GALILEO GNSS systems, based on OSI customization. The system solution would bring political awareness and technical reliability together to meet the factual OSI requirements.

Field Communication: Customized field communication system solution, which meets the fundamental requirements of individual inspectors, inspection teams, BOO, and Headquarters, including potential encrypt communication cases. This would provide an additional option for OSI equipment selection.

UAVs: High lights and low lights of UAV application to OSI scenarios. Potential system solution and customization based on OSI to keep balance between technical efficiency and least intrusiveness. While the arguments in the WGB meetings are taking place from session to session, technical discuss could go in parallel.

Chain of Custody solution: Customized embedded micro-chips and Near-Field Communication system solution to meet the requirements of OSI operational concept development for OSI samples Chain-of-Custody.

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