

# Available Data Security Protection Solution to International Monitoring System and On-Site Inspection

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As a solemn legal proof of either Treaty compliance or violation, data security of the Comprehensive Nuclear-Test-Ban Treaty (CTBT) verification infrastructure plays a vital role for the authority of CTBT regime. For most important cases within the CTBT verification infrastructure, such as the International Monitoring System (IMS), data gathered at internationally distributed IMS stations and transmitted through GCI to the International Data Centre (IDC) in Vienna, on-site inspection (OSI) voice communication and data transmission among inspectors, base of operations (BOO) and the CTBTO, there is a need to make a standing arrangement to prevent data from being eavesdropped on or intercepted. This work would carry out a full-range solution to IMS and OSI with secured data transmission under various network communication scenarios. Link encryptor provides protection for digital data transmission on trunk lines such as microwave, satellite and troposcatter through the encryption of all data including the protocol itself. IP encryptor is designed to protect IP communications over TCP/IP network by adopting encryption, identity authentication and data integrity verification. Radio encryptor is designed to work with HF/VHF/UHF radios for secured voice and data communication.

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## Promotional text

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## Oral preference format

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