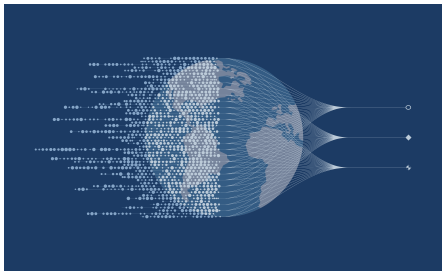

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rf and antenna measurement for link enhancement

Part of the CTBTO core operations is the communication system between the CTBTO remote station and to IDC in Vienna. Very Small Aperture Terminal (VSAT) Satellite System is very commonly used by CTBTO communication. VSAT is easy to implement and can reach every (easy/difficult) location on Earth. But VSAT incurs high costs. If CTBTO has an adjacent (nearby station) in one area, we can consider GSM as an alternative or backup to the communication system if the VSAT fails. GSM technology is evolving into faster data rates, newest technology, 5G speeds between 10 and 20 Gbps. In this presentation, I will present how to improve the link by measuring GSM signal strength using various RF cables combined with several GSM antennas with RSRP (dBm) RSRQ (dB) SINR (dB).

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