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Cellular Communication System for Infrasound Monitoring Stations

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In close and constant collaboration with the CTBTO, Enviroearth has developed a backup intra-site communication solution working through a cellular network. This backup system was fully designed according to CTBTO specification. Its low power consumption, communication protocol and easy implementation on-site make it well adapted to the infrastructure of infrasound stations and its integration to current main communication system (radio, fiber optic, copper wire/ethernet, VSAT). This cellular solution will allow a permanent redundancy and ensure a continuous communication between CRF and remote elements in case of the main communication system failure/outage, thanks to its automatic failover mode. The cellular backup system will run within pre-established cellular network (e.g. 2G, 3G and 4G) and through a sever infrastructure with VPN tunnel management.

Promotional text

Improvement in infrasound monitoring stations performance is a key and determining point in the sustainability of the network. This results into major technological challenges, such as the development of intra-site communication systems.

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Oral preference format

in-person

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