

System to Detect International Monitoring System Station Outage at the National Data Centre Madagascar

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In the framework of application of Comprehensive Nuclear Test Ban Treaty, 371 facilities run across the world to form the International Monitoring System. Madagascar hosts two of these stations, I33MG an infrasound station and AS61, an auxiliary seismic station. These two stations need to operate continuously to detect any nuclear test. To minimize downtime during an eventual outage, the National Data Centre Madagascar via its local operator team developed an alert system using Raspberry Pi and a GSM module. In case of an outage of up to 30 minutes, the system sends an SMS via local operator to the team showing the last received frame and the team start to solve the issue.

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Promotional text

The aim of this work is to increase data availability of an IMS station by minimizing downtime.

Oral preference format

in-person

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