

A-Core Container

Somalia Communications 5g base station large



Overview

Is 5G a major technological milestone in Somalia?

Credit SUPPLIED MOGADISHU (HOL) — A major technological milestone was reached in Somalia on Thursday as Hormuud Telecom unveiled its 5G services, catapulting the East African nation into a new era of digital connectivity.

Why do we need a 5G base station?

The limited penetration capability of millimeter waves necessitates the deployment of significantly more 5G base stations (the next generation Node B, gNB) than their 4G counterparts to ensure network coverage . Notably, the power consumption of a gNB is very high, up to 3–4 times of the power consumption of a 4G base stations (BSs).

Will 5G reach 80% of urban dwellers in a year?

The company anticipates an increase in coverage, with 5G services reaching 88% of urban dwellers and approximately 70% of rural communities within a year. The launch of the 5G network promises faster and more reliable internet services, with the company claiming over 80% coverage capability in its initial statement.

Why is Hormuud moving to 5G?

Hormuud's 5G service promises unparalleled speeds and reliability. It supports a range of applications, from healthcare and education to agriculture, potentially transforming everyday lives. Additionally, this move aligns with Somalia's goals of integrating more fully into the East African Community and fostering regional trade.

What is a 5G network?

The 5G network plane consists of three layers: 5G-CN, 5G-TN, and 5G-RAN. The servers in 5G-CN operate as a centralized controller while 5G-TN is

responsible for the bi-directional transmission of information. In 5G-RAN, the gNB systems within designated areas are combined into gNBs-clusters by aggregators.

How a 5G network can support a power system?

The 5G network and power system are coupled energetically by power feeders. Based on gNB-sleep actions and mode switching of their BESSs, 5G network can provide power support to the power system when the grid frequency deviation reaches the threshold.

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