

NEW DATA SITES, STRONGER INTERNET Gamcel Data, faster and better!

20% XTRA DATA

Dial *302*DataAmount#





- Gamcel is the pioneer operator in the Gambia mobile market .
- Gamcel was established in the year 2000 as a wholly owned subsidiary of Gamtel.
- As the national operator, the company uses the trade mark phrase 'Yaay borom' which means our own.





2G GSM 900 /1800
EDGE
UMTS





SUBSCRIPTION SERVICE:
DADIMA PLAN
SUPER CLOUD 9
BUSINESS HOUR: 8AM TO 8PM
LEISURE HOUR: 7:30PM TO 7AM
WEEKLY





- **PREPAID_CUSTOMERS:** These customers use the service to make calls and browse the internet
- These customers can recharge by purchasing credit / Nopal (Electronic Voucher) to load their account. In the same vein, the credit can be converted to Data credit to browse the internet





POSTPAID CUSTOMERS -

- internet and voice calls are billed at the end of the month. It is mostly offered to our corporate, institutions, NGOs and individual clients.
- ELECTRONIC AIRTIME: Locally known as Nopal which in our local dialect translates as 'convenience' and the credit is the airtime used to make calls and purchase data. This service is widely available throughout the country with dealers and agents at the helm of its distribution channels





- DATA BUNDLE- Get the cheapest bundle at the most reasonable price.
- Procedure: *302*byes amount#
- o CUG-
- This service is available for friends and family, institutions, corporate entities and other organizations:

o Procedure:

- Connect 5 numbers minimum
- Enjoy unlimited on net calls for duration of one month.
- Minimum charge on each number





• COLOCATION:

 Gamcel also offer colocation services to telecoms and ISPs to collocate some of their equipment and other network materials on our premises which attract cost.

Gamcel products and services

• CALL CENTRE:

- The call center provides 12 hrs. services to our customers as follows:
- Answer calls from our customers
- Address customer's complaints
- Send credit to customers for over scratching
- Provide statistics to the relevant stakeholders on various issues raised by customers





According to the International Telecommunications Union standards body (ITU), **QoS** is the "totality of characteristics of a telecommunications service that bear on its ability to satisfy stated and implied needs of the user of the service."





Imaster MAE
Nemo drive test tool

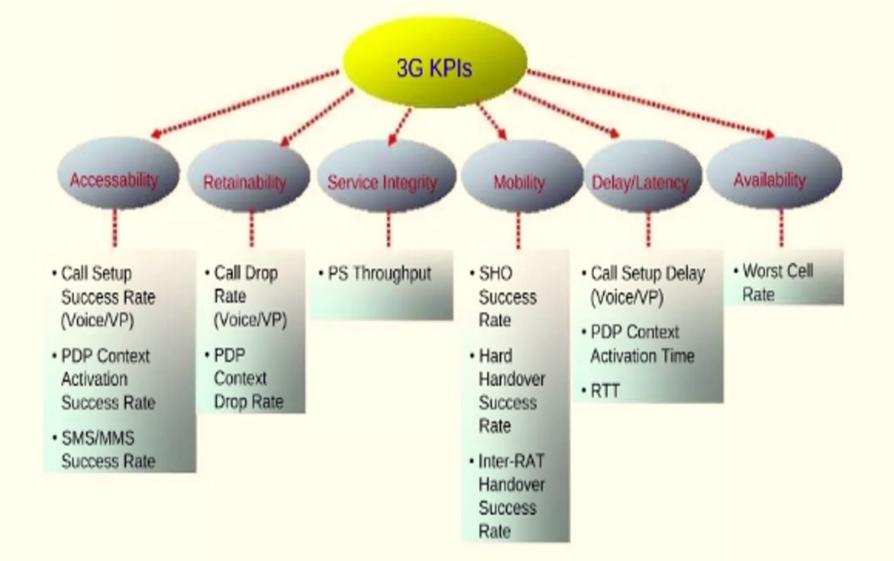


Challenges degrading QOS and QOE in Gamcel

Power
Frequent fiber cuts
Limited network Coverage
Lack of a modern billing system.

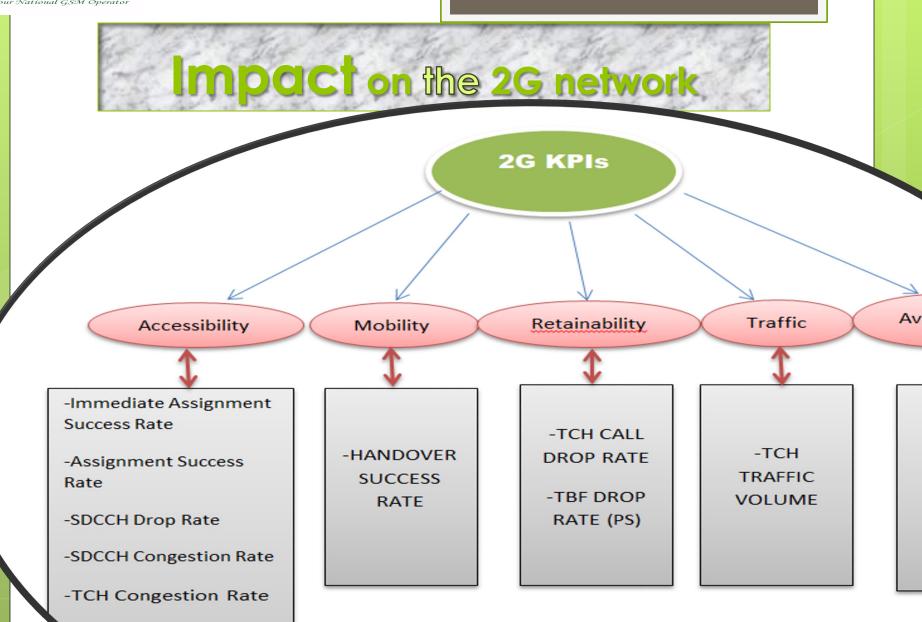


Impact on the 3G network





Call Setup Success







- o 51% of cell have TCP usage >70%
- Average throughput is 1.5Mbp
- The 3G low throughput root cause -:
- 1. Bad coverage 31%
- 2. Interference 35%
- 3. High number of users 14%

Causing Gamcel to lose 25.43% of traffic at busy hour.





Both CS and PS Call drop rate high
Thereby affecting user experience
Making cell availability poor.



SOLUTIONS

Improve network coverage

- 1. Deploy more 3g sites
- 2. Deploy U900 network to enhance network coverage.
- Network strategy and evolution-:

1. maximize network quality of service and utilization

a. U2100 capacity expansion

b. optimize KPIs to improve user experience

2. New LTE network deployment in hotspot area to improve user experience.

• Resilient transmission network (e.g. microwave)

• More than one primary power source in each site.





Thank You



Your National GSM Operator

WIJER JUVERAUE

FASTEST AND MOST RELIABLE INTERNET

f Gamcel products and services

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