

SITE INFORMATION & LOCATION

NAME	Rack Centre
LOCATION	Plot 18 Jagal Close, Oregun, Ikeja, Lagos
GEO-COORDINATES	6°35'51.7"N 3°22'23.5"E
BASE FLOOD ELEVATION	<ul style="list-style-type: none">• 30 metres above sea level.• Located in lowest city flood risk area of 0.002% (Source: Federal Ministry of Environment, Nigeria 2012)
DISTANCE TO AIRPORTS	<ul style="list-style-type: none">• Murtala Muhammed International Airport – 5.8km• Murtala Muhammed Domestic Airport – 4.3km
DISTANCE TO PUBLIC TRANSPORTATION BUS STOP	Bus Rapid Transit (BRT) Bus Station Ojota – 3.6km
DISTANCE TO RAILWAY STATION	Agege Train Station – 7.1km
DISTANCE TO FIRE STATIONS	<ul style="list-style-type: none">• Lagos State Fire Service Station Alausa – 2.1km• Ikeja Fire Station – 3.4km• Lagos State Fire Service Station Ilupeju – 4.5km

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...Powering a connected future

LGS1 | Existing Facility

KEY FEATURES

- **IT Power Capacity** | 1.5 MW.
- **White Space** | 1094 Sqm.
- Zero downtime since inception in 2013.
- 47U dedicated server racks with restricted access.
- **Secured IT Room** | 34 standard cabinets in a caged space.
- 2 independent Meet-Me-Rooms.
- N+1 Energy-efficient data center cooling technology delivers a design PUE of 1.5.
- Slab to slab Separated hot & cold aisles for enhanced energy efficiency.
- **Certification** | Tier III – TCCD & TCCF.

CONNECTIVITY

- 100% Carrier Neutral with over 60 Network Providers.
- Network dense with access to multiple local, regional carriers and Internet service providers offering Dark Fiber, Wavelength, Ethernet, MPLS, VPLS, IP Transit, Peering, CDN, Storage, Virtualized Services (SDN), Voice and Mobile Services.
- 100% Cloud Neutral with access to multiple cloud services through leading public/private/hybrid cloud solution providers.
- Public peering with Internet Exchange Point of Nigeria (IXPN) and African Interconnection Exchange (AF-CIX), Powered by DE-CIX.
- Carrier diversity with multiple fiber entries from multiple carriers to ensure redundant connections.
- Unrestricted access to all submarine cable systems.
- Three points of entry from public highway with diverse fiber routes for path diversity.
- Shared infrastructure consisting of Satellite & Antennae tank farm, Telecommunications mast & Tower.

COOLING & ENVIRONMENT

- Chilled water from roof mounted chillers via diverse headers to in room CRAHs.
- Cooling configured on a resilient ring chilled water system.
- N+2 High efficiency air cooled Chillers.
- Computer Room Air Handling units at N+2.
- Circulation pumps N+1.
- Cooling infrastructure individually managed and linked to BMS.
- Indoor Data Hall conditions in normal operation is 18°C - 27°C with set point of 25 °C.
- Relative humidity range: 25% – 65% RH (at 15°C dew point) in line with ASHRAE standards.
- ASHRAE 2021 TC9.9 Class A1 hall condition.

FIRE DETECTION & SUPPRESSION

- Automatic fire detection and suppression utilizing a combination of point detection and very early warning smoke aspiration (air sampling) detection with high pressure mist suppression.
- Wall rating designed to meet local code as a minimum (1 hr.) and increased to 90 mins and 120 mins for critical spaces.

PHYSICAL SECURITY

- 24/7/365 on-site security by manned guards on multiple shifts of security team.
- Monitored Perimeter fencing and strict access control procedures to ISO 27001 standards.
- Visitor Management System with controlled and monitored access.
- Continuous motion activated CCTV surveillance of all external and internal areas.
- CCTV storage and access biometric cycle time is 6 months online and 12 months of line (in archive).
- Ten physical security layers and multiple control points for defense and deterrence.
- Comprehensive audit logs on all access points.

BUILDING MANAGEMENT SYSTEMS

Energy Management & Monitoring

- Power surge management and power quality monitoring.
- Real-time monitoring of electrical and mechanical systems.
- Comprehensive energy metering system recording real time consumption.

Environmental Conditions

- 24/7/365 continuous monitoring in all technical areas
- Proprietary system with proactive warning and automatic environmental and infrastructure controls.
- Sophisticated Building Management System (BMS) that is interoperable for 3rd party integration.

CERTIFICATIONS

- ISO 9001: Quality Management
- ISO 27001: Information Security Management
- ISO 22301: Business Continuity Management
- ISO 45001: Occupational Health & Safety.

LGS2 | Facility Under Construction

KEY FEATURES

- **IT Power Capacity** | 12 MW.
- **Total Committed Power** | Utility Power Supply Capacity of 25mva
- **PUE** (annualized) of 1.35.
- **White Space** | 3240 Sqm.
- **IT Rooms** | 6 Data Halls each of 2 MW IT Load & < 24kw rack density alongside 4 Meet-Me-Rooms.
- **Room Height** | 5000mm AFFL structural ceiling height to fit non-standard cabinet sizes such as 70U racks.
- **Structural Floor Loading Capacity** | 20kN / sqm.
- **Dedicated Office & Workspaces** | 1,930 sqm.
- **Dedicated Storage Spaces** | 1,050 sqm.
- **Certification** | IFC EDGE: "Excellence in Design for Greater Efficiencies" - (First Green Certified Data Centre in Europe, Middle East & Africa).

POWER

- Gas Independent Power Supply with N+1 Configuration.
- Two independent 3N2 (Distributed Redundant) UPS systems each rated to 6MW IT load at N.
- MV from site Gas turbine generators. All MV are dual path and concurrently maintainable.
- Diesel generators as back-up power with N+2 MV configuration.
- For back-up power, on-site fuel storage to support 40 hours at full load.

