Open Access
Data Centres LAGOS

A new data centre proposition for
West Africa

Open Access Data Centres' Lagos facility (OADC Lagos LOS1) is designed to be the most client centric data centre in West Africa. This world-class, US$150 million, carrier-neutral facility will deliver up to 20MW site load across more than 7,200m² of white space – sufficient for 3,200 racks.

Profile and Location

OADC Lagos is a purpose-built, high-specification data centre, situated on a prime four-hectare site in Lekki, making it the largest data centre campus in West Africa.

It is located near the Lagos central business district making it easily accessible. There are excellent communication, transport, and airport links. Additionally, the facility provides on-site parking, private meeting rooms, work areas, and other amenities.

Transforming digital Africa

Site Features

- **Total area:** 4 hectares
- **Total technical space:** 7,200m² (over 3 floors) at maximum capacity
- **Building:** Steel. Modular design with separate brick-built operations building
- **Height:** 3.3m clear between raised floor and underside of the steel ceiling
- **Floor:** Raised floor designed at >12kN/m² UDL with floor void of 540mm
- **Access to building:** 24/7/365
- **Connectivity:** Multiple carrier Points of Presence with diverse routes
- **Green:** committed to minimising environmental impact with green technologies & innovations – currently in the process of Green Star Level 4 Sustainability; ISO 9001, 14001, 27001, 45000, 50001; PCI-DSS accreditation

OADC LOS1 Features

Power

- **Power feed:** up to 20MW site load, 33,000v power supply with 11kV distribution network on site to dedicated transformer and power distribution rooms per-phase

- **Power on site:** 400/230v three phase, also 48v DC

- **Generators:** 100% backup of complete site using 2N, data centre continuous rated, diesel generators

  - minimum 72-hour fuel storage capacity with polishing and refuelling during use 24/7/365

  - fuel delivery callout contract in place 24/7/365

- **UPS:** modular 'hot swappable' static 2N configuration – 10-minutes autonomy

- **Grounding system:** full TNCS earth network + ground strike and building lightning protection and surge protection systems

- **Lighting:** 500Lux at working plane LED in data centre aisles

- **SLA:** guaranteed 100% power uptime on A or B power paths at any time

Environment

- **DC cooling capacity:** 3-7kW per rack

- **Temperature/humidity range:** ASHRAE TC9.9 Table A1

- **Cooling redundancy:** N+1 configuration

- **Cooling system:** independent, 120kW DX, close-control air-conditioning units, N+1

Fire protection

- **Fire detection:** latest technology, analogue addressable system with smoke detection in every room on site

- **HSSD system:** very sensitive VESDA system in critical areas + data halls as an early warning system

- **Fire suppression system:** NOVEC 1230 gas-suppression system in data halls

For more information, please send an email to
enquiries@openaccessdc.net

OADC Lagos LOS1
3rd Elegushi Beach Gate, By Silverbird Road,
Off Yemi Adetayo Street, Lekki, Nigeria

Control

- **BMS:** Independent BMS/EMS web-based system monitoring and managing all aspects of data centre infrastructure (power, a/c, fire protection, security) and customer equipment alarm

- **Customer support:** On-site NOC manned 24/7/365

  - Service desk operations and management are underpinned by our call logging system and customer extranet, which tracks customer installations, works orders and technical support provided on-site

Security

- **Multi-stage physical security and access control**

- **Physical security:** perimeter wall and fence

- **Vehicular security:** manned, secure and monitored building perimeter entrance

- **Human:** 24/7/365-manned security station

- **CCTV:** exterior, interior and data hall-specific CCTV, minimum 30 days of time-lapse digital image recording

- **Access control:** 7-level access control system with highest level to access the technical area

  - biometric palm scanner at the entrance

  - photo ID access card and intruder alarm

  - card access proximity readers to all doors

  - monitored perimeter doors

  - anti-passback

  - customer equipment alarm

  - enhanced security options to dedicated suites

  - electronic visitor sign-in system

Connectivity

- **Carrier-neutral:** adjacent to major fibre routes and available through a range of onsite providers

Services

- Colocation (racks, cages, suites, cold aisle, power)

- Warm hands

- Connectivity

- Cross-connects

- Consultancy/bespoke design

- Insights

- Industry-leading suite of client information systems