

Africa

DataCentres

Company Overview

Africa Data Centres



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Mission Statement

Africa Data Centres is Africa's largest network of interconnected, carrier and cloud-neutral data centre facilities. Bringing international experts to the pan-African market. We are your trusted partner for rapid and secure data centre services and interconnections across the African continent. Strategically located, our world-class facilities provide a home for all your business-critical data. Proudly African, we are dedicated to being the heartbeat of your business.

Vision Statement

Africa Data Centres' aim is to unveil various business opportunities and to develop a strategic network of partnerships. This will further strengthen Africa Data Centres' superiority in providing our customers with the highest standard of interconnected, carrier and cloud-neutral data centre facilities throughout Africa.

What does Africa Data Centres do?

Africa Data Centres is your trusted partner for rapid and secure data centre services and interconnections across the African continent.



| Safety, Health and Environmental policies

Africa Data Centres values its employees, contractors, customers, the environment and communities in which we operate. We are committed to complying with all Health, Safety, Environmental and Social (HSE) legislation in every country that we operate in. In addition, we strive to conform to the International Finance Corporation (IFC) Performance Standards and other international best practice guidelines, where relevant.



Africa Data Centres is proudly ISO 14001 and ISO 45001 accredited.

| Service Offerings

- Colocation Services
- Cross-Connects
- Cage Hardware
- Hot or Cold Aisle Containment
- Remote Hands
- Work Area Recovery
- Physical Storage
- Cloud Services
- Network Services
- Content Delivery Network
- Peering
- Data Centre Interconnected Technology
- Internet Connectivity
- IP Transit
- IT Hardware
- Data Centre Construction Services

Colocation Services

Africa Data Centres offers a range of colocation services to support your data, applications and back-end systems. Our scalable and secure services are ready to meet all your current business needs and in the digital future.

All Africa Data Centres' world-class facilities are carrier and cloud-neutral. Africa Data Centres will provide a home for all your business-critical data and access to a hub of leading cloud providers, carriers and enterprises.

Africa Data Centres is not just a state-of-the-art carrier and cloud-neutral colocation provider. Our facilities are home to an increasing number of large local and global enterprises. Within this rich eco-system, we can offer a wide range of digital ecosystems for cloud, content, security, storage and financial services.



Our Colocation Services are made up of the following components:

- **White Space**

The White Space Capacity of the rack footprint in (kilowatt) kW consists of the physical space and the infrastructure to power and cool the IT equipment to be placed in the rack. White space capacity is sold as a Monthly Recurring Cost (MRC) and also includes a once-off Non-Recurring Cost (NRC) that covers project initialisation and management. We offer standard increments of 1 and 2 kW for a half-rack and 2 to 8 kW for a full rack. Higher densities can be offered.

- **Rack Hardware**

The Rack Hardware consists of a full or a half aluminium framed server rack. A full rack is 43/42 U (units) high, 600 (millimetres) mm wide and 1200 mm deep with perforated front and rear doors, dual upright mounts and multiple cable trays. Half racks are 20 U high, 600 mm wide and 1200 mm deep. Racks come

with many customisable features and Power Distribution Unit (PDU) options. Rack hardware is billed as an MRC with a small NRC. A customer may also choose to purchase the rack hardware outright.

- **Energy Usage**

Energy consumed by your IT equipment can be billed in one of two ways:

- **Bundled Energy**

In a Bundled Energy Model the entire 100% of the energy capacity subscribed to is billed monthly in advance with the monthly recurring cost of the rack hardware and white space capacity.

- **Metered Energy**

In a Metered Energy Model the energy consumed per rack PDU is metered and billed separately at the sites' energy utilisation rate.



Cross-Connects

Our advanced fibre optic structured cabling system allows our customers easy connection to any network carrier, dark fibre operator, cloud provider or other organisation on our data centres. These connections are called cross-connects. Cross connecting of various organisations builds our rich eco-systems

Customers can request physical fibre connections from their co-location environment to another enterprise or service provider in our data centre through a cross-connect. Cross-connects run to a passive MeetMe room before being patched to the desired organisation. We have multiple options: Copper, Fibre and PSTN (Public Switched Telephone Network)

Cage Hardware

Security Cages offer solutions to cage-off or partition any area. Africa Data Centres offer our customers this additional safety feature. Supplementary security options such as Biometric Access Control and CCTV cameras can be added. Caged environments are typically offered for a minimum of 6 x 4 kW racks or 8 x 3 kW racks.

Hot or Cold Aisle Containment

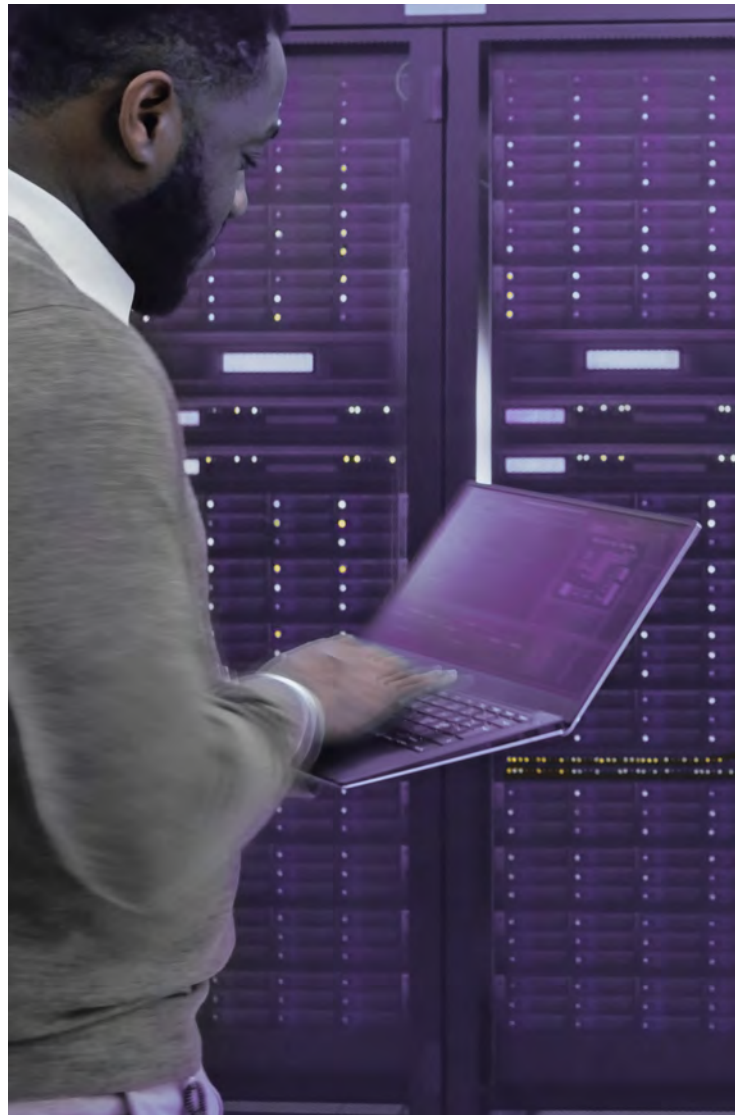
CAC (Cold Aisle Containment Systems) has doors at the end of the aisles and partitions on the ceiling that act as a physical barrier to contain the airflow.

HACS (Hot Aisle Containment System) encloses the hot aisle to accumulate the IT equipment's hot exhaust air, allowing the rest of the data centre to become a large cold air containment facility.

Africa Data Centres require a minimum 8 kW rack densities for this option to be offered. Containment can either be CAC or HACS dependent on the site conditions and can be retrofitted to existing rack hardware or bundled with new racks.

Remote Hands

Africa Data Centres' Remote Hands Service provides dedicated, professional support to customers requiring a variety of tasks such as emergency, planned and routine maintenance. With Africa Data Centres' Remote Hands, customers can respond more swiftly to emergencies, reduce travel time, improve uptime, and reduce the cost of infrastructure management and maintenance. With hourly service plans, volume discounts and 15-minute billing increments, customers can reduce their cost of infrastructure management. Our team is available for your every need and is equipped with the tools needed to action, complete and report any task at any time.



Work Area Recovery

Africa Data Centres offers SWAR (Syndicated Work Area Recovery) at each of our Core Data Centres. SWAR services offer our Enterprise and Hyperscale Customers business resilience and demonstrate corporate preparedness and responsibility to their customers. The SWAR offering includes dedicated areas subject to specific conditions. Subscribe to these services in advance as it is based on a first to invoke basis.

Physical Storage

We offer physical storage space for your spares and equipment waiting to be commissioned or decommissioned. The physical storage option is billed per square meter.



Cloud Services

Africa Data Centres is proudly cloud-neutral. Through our numerous Cloud Eco-System partners, we can offer our customers diverse Managed Cloud Services. Just to mention a few examples:

- IaaS – Compute & Storage
- Disaster Recovery as a Services
- Backup as a Service
- Archive as a Service

Network Services

All Africa Data Centres' facilities are carrier-neutral and offer a variety of network and service provider services in our data centre through our Network Eco-System partners. In our facilities, you are just a cross-connect away from major internet exchanges, as well as hundreds of fibre providers, carriers and cloud providers.

Content Delivery Network

A CDN (Content Delivery Network) refers to a physically dispersed group of servers that work together to provide rapid delivery of Internet content.

Peering

When data is exchanged directly through internet service providers instead of through the internet it is labelled as Peering. Data can be exchanged in our facilities through Public and Private Peering.

Reduce costs and improve network performance is achieved by participating in the rich peering ecosystem in our data centres. Peering helps networks reduce latency, improve security and provide greater control over your network traffic.

Africa Data Centres currently has internet exchange points in Johannesburg, Cape Town, Kenya and Zimbabwe. Thanks to our partners JINX, CINX, KIXP, and NAPA we can provide a marketplace and access to the largest peering exchanges in Africa. Customers can select from participating network providers as well as remote peering to others.

Data Centre Interconnected Technology

Data Centre Interconnect (DCI) technology links two or more data centres together over short, medium, or long distances using high-speed packet-optical connectivity. With a quick, consistent connection in place, physically separate data centres can more easily distribute resources and balance workloads.

Data Centres

Johannesburg Midrand JHB1



- 8 Data halls with 9000 m² (square meters) of white space
- Dual Incomer Feeders
- Connectivity to major hubs and Dark Fibre Infrastructure
- 15 kW (kilowatt) Per Rack cooling density
- Connected to a 24/7 Security Operations Centre and Service Control Centre
- HSSD (High Sensitivity Smoke Detection) - VESDA (Very Early Smoke Detection Apparatus) Automated smoke detection and suppression systems
- Colocation:** Private Cage, Secure Racks, Cross Connects, Power Metering and Remote Hands
- HVAC (Heating, Ventilation and Air Conditioning), Power and Building critical systems managed and monitored 24/7
- ISO27001, ISO9001, OHSAS 18001, PCI DSS

Johannesburg Samrand JHB2



- 4 Data halls with 6000 m² (square meters) white space
- Client IT load 20 MW (Megawatt) upon completion
- Connectivity to major hubs and Dark Fibre Infrastructure
- Cooling system to the Data Halls is configured to 2N solution with high resiliency
- Connected to a 24/7 Security Operations Centre and Service Control Centre
- Automatic fire suppression system in data halls triggered by double knock detection of fire alarm
- Colocation:** Private Cage, Secure Racks, Cross Connects and Power Metering
- HVAC (Heating, Ventilation and Air Conditioning), Power and Building critical systems managed and monitored 24/7
- ISO2700, ISO9001, ISO4500, ISO14001, PCI DSS

Cape Town CPT1



- 4 Data halls with 2700 m² (square meters) of IT space ready for deployment and 2300 m² planned expansion in 2021
- Client IT load of 9 MW (Megawatt) upon completion
- Interconnection of all Africa Data Centres' sites across the continent
- CRAH (Computer Room Air Handler) units are designed to N+2
- Connected to a 24/7 Security Operations Centre and Service Control Centre
- Low pressure gas system installed in the data halls triggered by double knock detection of fire alarm
- Colocation:** Private Cage, Secure Racks, Cross Connects and Power Metering
- HVAC (Heating, Ventilation and Air Conditioning), Power and Building critical systems managed and monitored 24/7
- ISO27001, ISO9001, ISO4500, ISO14001, PCI DSS

Nairobi NB01



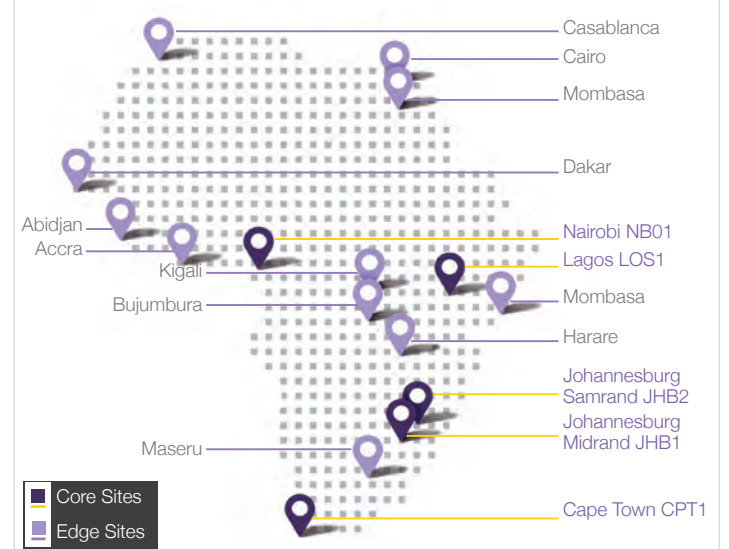
- 4 Data halls with Certified Uptime Institute Tier 3 facility which is unique in East Africa Data Centre Nairobi, Kenya
- Available site capacity 7.5 MW (Megawatt)
- Access to Africa Data Centres' Pan African footprint
- Environmentally friendly and efficient cooling system
- Connected to a 24/7 Security Operations Centre and Service Control Centre
- Low pressure gas system installed in data halls triggered by double knock detection of fire alarm
- Colocation:** Private Cage, Secure Racks, Cross Connects and Power Metering
- HVAC (Heating, Ventilation and Air Conditioning), Power and Building critical systems managed and monitored 24/7
- ISO27001, ISO9001, ISO4500, ISO14001, PCI DSS

Lagos LOS1



- World class rated 3 Data centre located in Lagos, in the special Economic Zone called Eko Atlantic City
- Client IT load of 5 MW (Megawatt)
- Interconnection of all Africa Data Centres' sites across the continent
- Hot aisle and Cold aisle Containment done to maintain cooling efficiencies
- Connected to 24/7 Security Operations Centre and Service Control Centre
- Low pressure gas system installed in the data halls triggered by double knock detection of fire alarm
- Colocation:** Private Cage, Secured racks, Power Metering and Cross Connects
- HVAC (Heating, Ventilation and Air Conditioning), Power and Building critical systems managed and monitored 24/7
- ISO2700, ISO9001, ISO4500, ISO14001, PCI DSS

Pan African Footprint



Internet Connectivity

Africa Data Centres provide internet connectivity through (DSL) Digital Subscriber Line, ADSL (Asymmetric Digital Subscriber Line), Fiber Internet and Satellite.

IP Transit

Africa Data Centres enables IP Transit that is a service where an ISP (Internet Service Provider) allows traffic to travel through their network to its destination. Africa Data Centres have numerous Tier 1 Internet Providers within the facilities that form the backbone of the Internet.

IT Hardware

Africa Data Centres offer you access to IT Hardware through our vendor partners as an outright purchase or as a bare-metal service. We also assist our customers with IT Managed Services through our professional service organisations.

- Bare Metal Service Hardware Sales
- IT Managed Services

Data Centre Construction Services

Africa Data Centres has vast experience in data centre development with international and local experts. We offer a variety of data centre construction and management services. That includes the following:

- Build to Suit
- Powered Shells
- Turnkey Solutions
- Data Centre Facilities Management Services
- Data Centre Operations Management
- Move-in Management



| Certifications



| Environmental Sustainability



Solar

- Estimated power usage in data centres is over 400 terawatts or the equivalent of three per cent of all power generated around the world
 - Africa Data Centres has a Corporate Sustainability Program in place to lower carbon emissions and increase energy efficiency sustainability goals to positively impact our customers, partners, investors and employees.
- With each facility we carefully consider our sustainability and responsibility in terms of what our impact on natural resources will be. Our aim is to operate extremely efficient data centres and source as much low carbon and renewable energy as possible.
 - We examine each country to determine how to source renewable power. Africa Data Centres partners with the local utility and the government to find large scale, low carbon power systems.



Grey Water

- Water is essential for cooling systems, however, a certain amount of water is needed upfront and then water usage becomes minimal.
- We've selected an atmospheric water generator. An incredible technology that pulls moisture from the air that generates enough water to fill our entire chilled water system and buffer tanks.
- The surplus water is distributed to local schools in the Cape Town area and an NGO called 'Gift of the Givers'.
- Our facilities are designed, built and operated using sustainable, clean and renewable energy sources as much as possible. Our Program was created with achieving significant and measurable progress towards a greener future. With this in mind, we recently expanded the use of solar power through the installation of a 1.2 MW solar panel plant at our data centre facility in Nairobi, Kenya.

