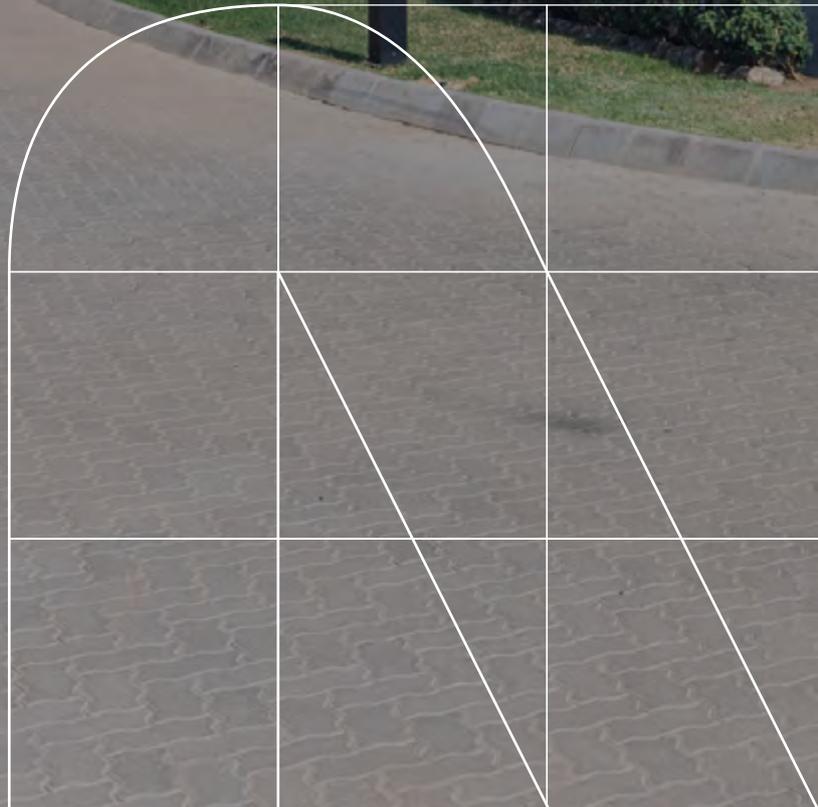


Global Data Centers | Site brochure

Johannesburg 1 Data Center

Home of AI and cloud computing



Worldwide scale, local expertise

Johannesburg is the largest and most populous city in South Africa. It's also the provincial capital and largest city of Gauteng, the wealthiest province in South Africa.



Johannesburg, classed as an alpha level city, is an economic and financial hub in South Africa, home to Africa's largest stock exchange, the JSE, which ranks among the top 20 in the world. The city hosts the South African headquarters of more than half of the world's top 20 global brands, including Barclays, Huawei, LG, L'Oréal, Song Ericsson and Tata Group.

South Africa has one of the largest IT industries in Africa and the sector is an important contributor to South Africa's GDP. Johannesburg stands among the leading cities in South Africa for this sector. Global technology players like Google, SAP, HP, IBM, Oracle all have a base in the city. The JINX (Johannesburg Internet Exchange) resides in the city, which was the first internet exchange point in Africa. Johannesburg has citywide fiber-optic networks and three of the four mobile network operators in South Africa (Cell C, MTN and Vodacom) have their base in Johannesburg.

Johannesburg has a vibrant start-up scene, with initiatives in place such as JoziHub, which cultivates young entrepreneurship and innovation. In terms of the data center industry, Johannesburg is the data center capital of South Africa, representing a massive majority of capacity in the country. Furthermore, South Africa is the data center market leader in Africa as a whole.

The Johannesburg 1 Data Center is located in the «Central Point Innovation District», in close distance to highway N1 and a 30-minute drive from the Johannesburg Airport as well as the city center.

A solution for every requirement

With a total of 6,200+m² IT space and a maximum of 12MW, Johannesburg 1 offers complete solutions for housing your IT and network systems in a secure, high availability environment. We provide you with the best possible physical and technical infrastructure supported by N+1 UPS systems, N+1 generator backup, as well as highly redundant cooling systems. Our data center holds multiple certifications and is connected to the major Internet Service Providers NAP Africa and JINX.





Secure and flexible space built to your specifications

Your requirements are the most important aspect of our service offering. You choose, we deliver. Whether you select a building shell which you configure yourself, or we construct it according to your specifications, or even if you want to rent a single rack in our shared environment, we can accommodate your needs. We will also ensure the space is highly available through our years of engineering critical data centers while maintaining high levels of security to keep your infrastructure and data safe.

Overview of our main product offerings:

Fully-fitted	Colocation Rack
	Carrier Rack
	Dedicated Cage
	Dedicated Suite
Shell and core	Area
Supporting products and services	Multi Service Interconnection Platform
	Cross Connect
	Remote Hands

“ The African markets are expected to accelerate in the coming years, as **mobile and fixed connections** are growing fast in the continent.

Infrastructure



Data center space

- 6,200+m² of IT space
- Flexible colocation deployments: single rack colocation, cages, suites, turnkey build to suites, shell and core solutions
- Ancillary spaces (offices, storages, and pre-installation rooms) available
- Common areas such as meeting rooms and catering area



Cooling

- Chilled water data suite cooling with air-cooled free-cooling chiller systems with a minimum of N+1 redundancy
- Concurrently maintainable air handling units (AHUs) providing fresh air pressurization and humidity control to data suites
- Chilled water cooling to MMR and to electrical plant rooms (N+1)
- Pressure relief and cold smoke extract system to all suppressed areas



Power

- On-site substation delivering 20MVA of power
- Maximum client IT load of 12MW
- Average power density of 2kW/m²
- Power supply at 20kV level
- All IT racks supplied with two separate UPS systems (A- and B-supply) with
- N+1 redundancy
- Redundantly designed emergency power system with diesel generators N+1



Fire protection

- Very Early Smoke Detection Alarm system (VESDA) in the return air path
- Pre-action dry-pipe multi-range nitrogen gas extinguishing system
- Fire protection walls to a minimum of 60 minutes separation
- Monitoring with automatic digital fire alarm system



Security

- 24/7 Security Operations Center and remote Service Control Center
- Redundant monitoring of all critical functions underpinned by standardized security processes and the multi level security zone principle, secures the rental area and the technical operation
- Site perimeter fence to be 2,700mm high ClearVu or similar fence, with extended post to 3,000mm accommodating an electric fence
- Card swipe entry/exit to all doors
- Preventive risk assessment as well as continuous testing and training of operating personnel



Global data center network

- Part of the NTT DATA family
- Connectivity options to our global network

Infrastructure



Connectivity

- Carrier- and cloud-neutral
- Carrier-mix from global Tier 1 supplier to regional supplier
- Connectivity to the major carrier hubs in South Africa
- Pre-spliced dark fiber available on demand
- Redundant Carrier-Meet-Me-Rooms
- Redundant cabling infrastructure with diverse paths
- Pre-Cabling to support fast Cross Connect deployments
- High-performance internet access
- Inter data center connectivity between our data centers for geo-redundant solutions
- Multi Service Interconnection Platform to connect our clients to major cloud service providers such as Amazon Web Services, Microsoft Azure, and Google Cloud Platform



Additional services

- Consulting, general and implementation planning for development projects
- Client Implementation Services
- Installation Services
- Remote Hands Services
- Facility Services
- Audit Support Services



Service level agreement

- 99.999% power uptime availability
- Climate control conditions in line with ASHRAE guidelines
- Connectivity availability

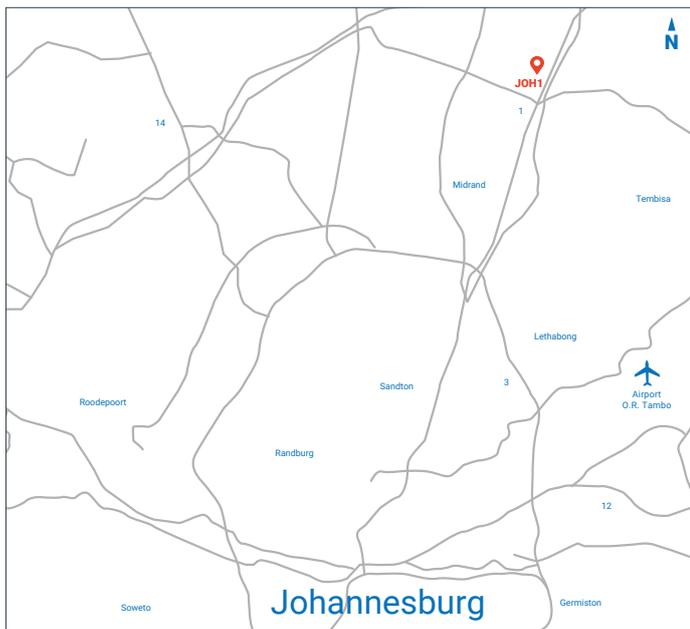


Certifications

- ISO 9001
- ISO/IEC 2701
- ISO 22301
- ISO 50001
- ISO 45001
- PCI DSS
- ISAE 3402 Type 2 Report
- ISAE 3000 Type 2 Report

We are where your business is

We're operating multiple data centers in 20+ countries and markets



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Learn more about Global Data Centers

Our global platform is one of the largest in the world, spanning more than 20 countries and regions, including the Americas, Asia Pacific, EMEA and India. NTT DATA is routinely recognized as a Leader by leading networking and data center analysts.

As a neutral operator, we offer access to multiple cloud providers, a large variety of internet exchanges and telecommunication network providers including our own IPv6-compliant Tier 1 Global IP Network.

You benefit from tailored infrastructure, and experience consistent best practices in design and operations across all of our reliable, scalable and customizable data centers. We're ready to facilitate client adoption of next-generation technologies for computing at scale, virtualization, data migration, and cloud and B2B private connectivity both regionally and across the globe.

NTT DATA has made a net-zero commitment in alignment with the science-based target initiative across its operations by 2030 and the whole value chain until 2040. In addition, we drive towards powering our data centers with 100% renewable energy by 2030.

Visit us at services.global.ntt/globaldatacenters



