NTT

Intelligent Data Center and Hybrid Cloud | Global Data Centers

Osaka 7 Data Center

29.5m Max.
4,200 racks.

Home to the cloud

Osaka 7 Data Center (Osaka 7) offers server space of 3,800m^2, is top class in the region and will eventually offer 9,500m^2 and 4,200 racks. The state-of-the-art data center will be situated in Ibaraki, Osaka Prefecture, within easy access of major cities including Osaka, Kyoto and Kobe.

Convenient location accessible to diverse customers

Osaka 7 in Ibaraki City will be just 30 minutes by public transportation from downtown Osaka and about one hour from Kyoto or Kobe. The carefully chosen location combines easy access with reduced risk of disruption due to disasters such as floods or earthquakes.

Ideal network environment

The data center will be connected directly to Osaka's Dojima area, a major interconnection point for internet service providers (ISPs) and data center operators. Global networks and internet connectivity will be readily available for major cloud service providers, multinational companies and other customers. Osaka 7 will be fully compliant with strict equipment and operational standards we have globally unified under the Global Data Centers family. In addition to redundant electric power, air conditioning, connections and strict security, users will benefit from our high-capacity, high-quality and high-reliability network infrastructure. Moreover, the Flexible InterConnect service enables Osaka 7 customers to securely interconnect data centers and cloud services for unified management of access points, bandwidth, security settings, etc. This can be done via a metro link, a large-capacity, high-speed network ring connecting NTT Com data centers in the Osaka region.

Disaster resistant

Osaka 7's seismic-isolation design minimizes the impact on buildings and customer equipment if a powerful earthquake were to occur. In addition, Osaka 7 will be located in an area where flooding is uncommon and electric power during disasters will be assured thanks to direct connection to an adjacent substation.

Flexible accommodation of equipment

Osaka 7 will be a campus-style data center offering fast, reduced-cost customization to meet diverse needs. The building's modular design will help to minimize construction time, enabling customers to launch operations quickly and cost-efficiently. Server rooms using cooling wall-type air-conditioning will accommodate ultra-high-heat servers that consume 20kW or more of power, including GPU servers. An advanced high-voltage direct current (HVDC) system will assure reliability and will lower power loss by 20% compared to AC power feeding and 4,200 racks. The state-of-the-art data center will be situated in Ibaraki, Osaka Prefecture, within easy access of major cities including Osaka, Kyoto and Kobe.

Seismic isolation structure will minimize the impact of earthquake on buildings and customer equipment.

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 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
	Cage
	Suite
Shell and core	Area
	Multi service interconnection platform
Supporting products and services	Cross connects
	Remote-hands

Infrastructure

Data center space

- 8 data halls with 3,800 sqm of IT space in first phase
- Flexible colocation deployments: single rack colocation, cages, suites, turnkey build to suites, shell and core solutions
- Ancillary spaces (offices, storages, and staging room for pre-installation) is available
- Common areas such as meeting rooms with Wi-Fi

Cooling

- Redundant water-cooled system in n+1 configuration
- Water cooling, cooling wall system (compatible with more than 20kW ultra-high heat racks
- Hot aisle containment to support high densities and maximize efficiencies

Power

- Maximum customer IT load of 11.5 MW/ 29.5 MW once completely built out
- Average power density of 3.1 kW/sqm
- Dual-feed power supply from the adjacent energy center to the facility
- Two separate UPS systems (A- and supply) with n+1 redundancy
- Redundantly designed emergency power system with diesel generators in n+1 configuration which will operate at least 48 hours without refuel

Fire protection

- Ultrahigh-sensitivity smoke detection, heat-sensing devices,
- Gas fire extinguishing system
- Monitoring with automatic digital fire alarm system

Security

- Smart entrance system offers speedy and safe entrance by electric reception desk, electric rack locks and rack key box
- Redundant monitoring of all critical functions underpinned by standardized security processes and the multilevel security zone principle, secures the rental area and the technical operation
- CCTV covering the external perimeter, plant areas, and data halls
- IC Card swipe with biometric authentication entry/exit to all doors
- Preventive risk assessment as well as continuous testing and training of operating personnel

Module design will help to minimize construction time, enabling **clients to launch operations quickly and cost-efficiency.**

Connectivity

- Carrier-free
- Redundant Carrier-Meet-Me-Rooms (CMMR)
- Redundant cabling infrastructure with diverse paths
- High-performance internet access
- Multi cloud interconnection platform to connect our clients to major cloud service providers such as Amazon Web Services (AWS), Microsoft Azure, and Google Cloud Platform by using metrolink connectivity and Flexible InterConnect

Additional services

- Consulting, general and implementation planning for development projects
- 24/7 remote-hands services
- Facility services
- Audit support

Global data center network

- Part of the NTT family of over 160 data centers around the world
- Connectivity options to the global NTT network

Service Level Agreement

- Service level agreement (SLA) is provided for power availability, temperature and humidity range
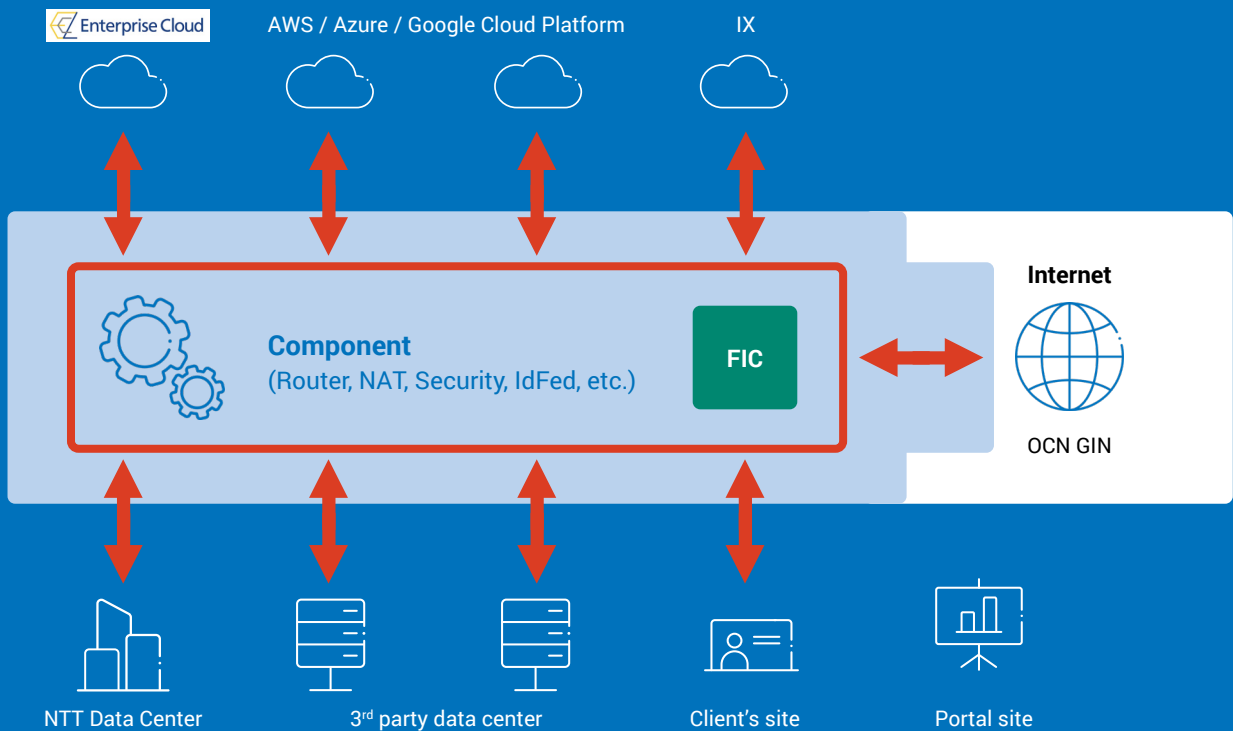- Climate control conditions in line with ASHRAE guidelines
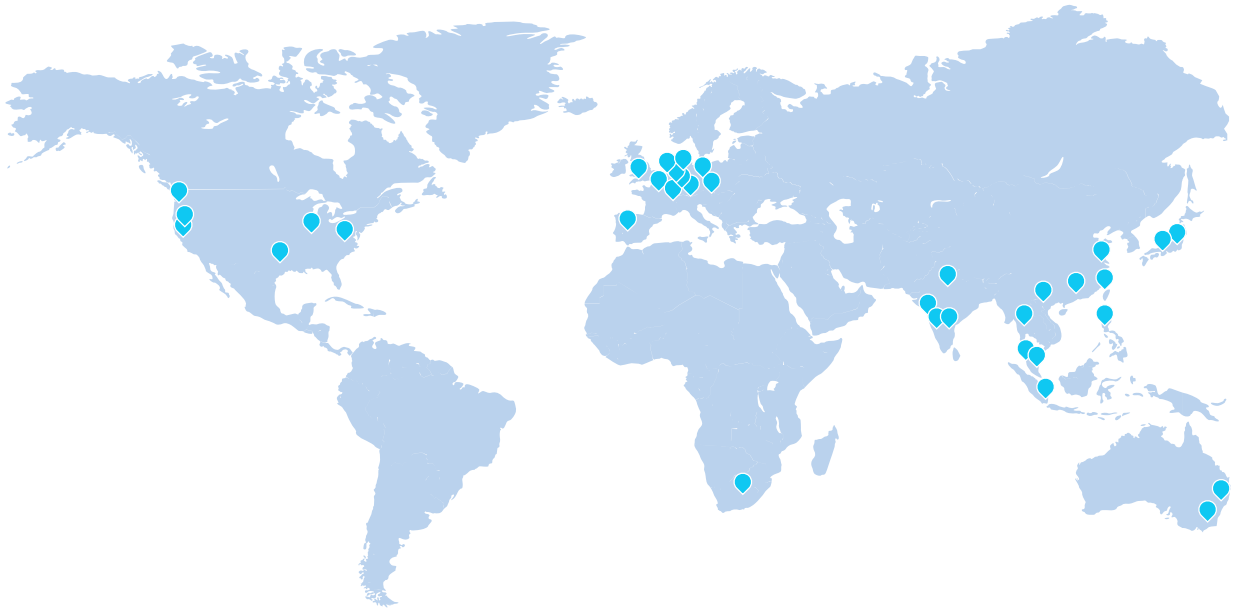
Certifications
(Including acquisition schedule)

- ISO 9001
- ISO 14000
- ISO 20000
- ISO 22301
- ISO 27001
- Privacy mark
- SSAE16/ISAE3402
- PCI DSS

Flexible InterConnect

Cloud Services (IaaS, PaaS, SaaS)

Enterprise Cloud   AWS / Azure / Google Cloud Platform   IX

Component
(Router, NAT, Security, IdFed, etc.)

FIC

Internet

OCN GIN

NTT Data Center   3rd party data center   Client's site   Portal site

Our Global Data Centers

About us

Our global platform is one of the largest in the world, with over 160 data centers spanning more than 20 countries and regions including North America, Europe, Africa and APAC. 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 highly reliable, scalable, and customizable data centers.

Ideal Connectivity **"Flexible InterConnect"** connects colocation to multicloud on demand

Locations in Osaka