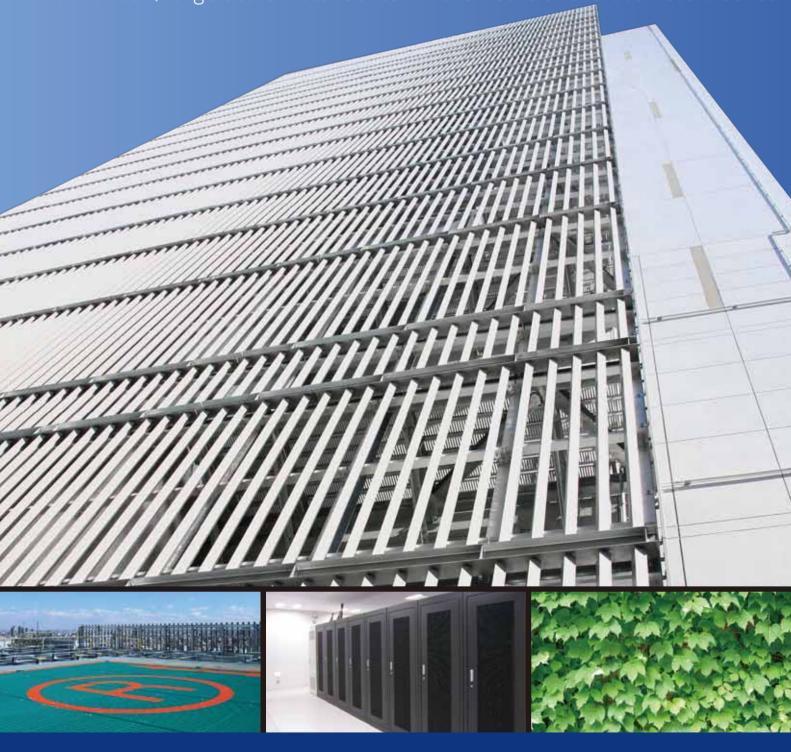
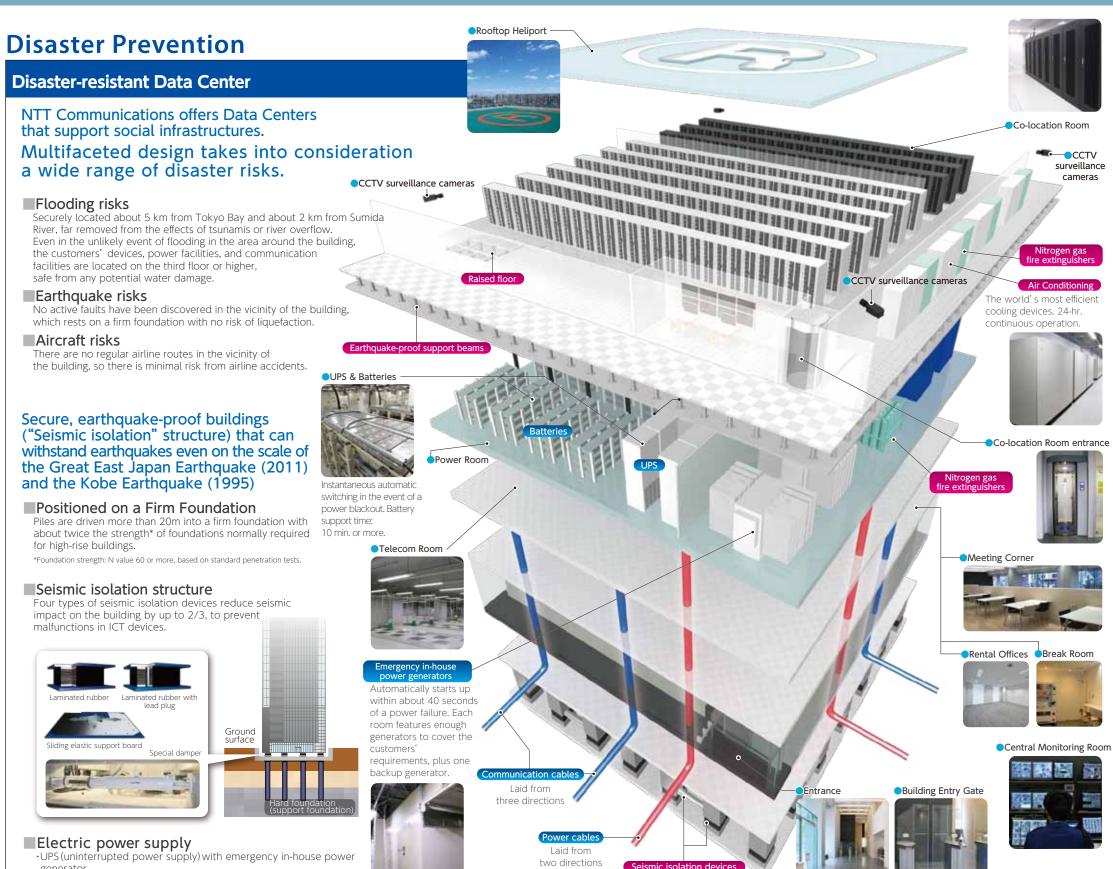
TOKYONO.5 DATA CENTER

An advanced, large-scale Data Center in the heart of the business district





TOKYO No. 5 DATA CENTER



Location

Ideal Location

About 10 minutes by car from Tokyo Station. Ideal location within walking distance of several train stations. Can be accessed in less than 1 hour from both Narita and Haneda Airports.

Green ICT

The most advanced environmental performance

Achieves "Green ICT," with the most advanced environmental functions in Japan

High energy efficiency electric power facilities and increased A/C efficiency reduce overall power consumption. "Green ICT" actively incorporates natural energy.

*Power consumption volume for entire Data Center / Power consumption volume for ICT equipment (calculations based on assumed values)



Reduces outer wall temperature

Renewable energy is used

Cutting-edge A/C equipment

The latest high-efficiency air

conditioners increase energy

for indoor lighting

for ICT devices

conservation effects

and prevents "heat island" effects

Pre-cast Concrete

A/C power reduced by thick building materials that minimize external heat load

Solar Power Generator

Outdoor Unit Water Spray

Rain water is gathered and sprayed on outdoor A/C devices



to increase A/C efficiency



High Voltage Direct Current Feed

Minimizes supply power conversion losses to reduce



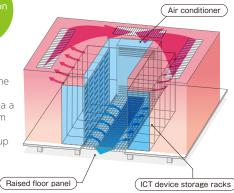
power consumption



Energy-efficient lighting Energy-efficient LED and HF

Air flow management

With advanced air flow management, cool air is blown through the floor to the front of the racks, and exhaust heat from devices is sent back to the A/C via a ceiling slit. This prevents heat from circulating around the room, and reduces energy consumption by up



Security (WESS=Web Entry Support System)

Before entéring the Data Center, users are required to submit an application using an original Web Entry Support System (WESS)

*Images are for illustrative purposes only

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ne at a time with



Stable Communications

Communication cables are laid from three directions via underground conduits with telecommunications carrier specs that minimize disaster risk.

·With ample fuel stores and priory contracts with fuel supply companies,

■Emergency response

A heliport located on the building's roof can be used for rescue operations or to transport supplies in an emergency.

·Electric power remains uninterrupted even when commercial

power supply can be ensured over a long period of time.

power supply from electric power companies fails.



High performance specs (Tier **II** or higher)

Building	
Construction completed:	March 2011
Ground Area:	2,203.86 m ² (23,722 ft ²)
Building area:	975.56m ²
Floor space:	13,227.09m ² (142,375 ft ²)
Main building:	16 stories; Penthouse: 2 stories
Structure:	Reinforced Concrete (precast concrete), Seismic isolation structure
Floor Load	1,000 kg/m² (205 lb/ft²)
Raised Floor;	600 mm (2.0 ft)
Elevators:	(W) 1,800 mm × (D) 2,300 mm × (H) 2,900 mm; Capacity: up to 4,000 kg
Ground level:	T.P. + approx. 6.3 m
Building/room access:	Facilities can be accessed 24 hrs./day Prior registration required via Web Entry Support System After confirmation of user's identity, card key and rack keys are provided

Facilities	
Power reception	Active and stand-by system
	Power reception voltage: 66,000 V
	Regular annual inspections (No need to interrupt system operations)
Emergency in-house generators: Gas turbine engines	24-hr. operation without refueling
	Startup tests conducted each month
UPS:	N+1 Parallel redundant configuration
Battery support time:	10 minutes
By power supply type	Single phase 100 V / Single phase 200 V / Three phase 200 V
	Compatible with High Voltage Direct Current (HVDC) Feed
Cooling	Air-cooled 24 hrs./day
Room temperature / humidity (target values):	Standard: 22°C ± 5°C /
	40% ±2 0%
Fire-prevention facilities	Nitrogen gas fire extinguishers
	Ultra high-sensitivity smoke detectors
Security	IC card + Biometric Authentication
	CCTV surveillance
	Racks locked individually with cylinder key
Networks	Multi-carriers complied Connections to the Metropolitan District Multi Data Center

Customer Portal

NTT Communications offers a dedicated customer portal site that allows users to monitor and check a variety of information via the Internet 24 hrs./day.

Main functions

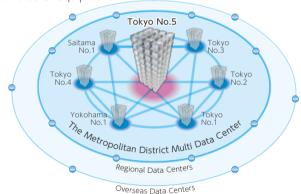
- ■View information on facilities currentry in use
- ■View electrical current values
- ■View building access logs
- ■View remote hand operation records
- ■Download information files



Roll out Business Continuity Plans (BCP) through the Metropolitan District Multi Data Center

Implement Business Continuity Plans (BCP)

- ■Connect to Metropolitan District Multi Data Centers via a high speed, high capacity network, creating a "network mesh"
- ■Distributing ICT assets by connecting to regional Data Centers and overseas Data Centers
- ■Implement BCP measures in case of disaster by distributing servers and other equipment



Extensive Service Menu

Service C	Categories In	addition to basic services, we offer a variety of optional services and customized services.
Co-location Services Optional Services Customized Services	Basic Services	19 inch cabinet racks, in conformance with EIA standards
		Power supply: 100 V 20 A breaker supply
		Security: Rack keys, CCTV surveillance cameras
		Room access management: biometric authentication or IC card key required for room access
		Air Conditioning
		Primary maintenance: device lamp confirmation, Power off/on, reset button operation
		Enhanced power supply: Choose from AC single phase 100 V 10 A, 20 A, or 30 A / AC single phase 200 V 15 A, 20 A, or 30 A
		Redundant power configuration: Choose redundant breaker, redundant power distribution unit, or redundant UPS
		Stand-by power supply: Choose from AC single phase 100 V 20 A or 30 A / AC single phase 200 V 15 A, 20 A, or 30 A
		Other power options: earth; additional power outlets in racks; changes to power outlets, etc.
		Rack options: Additional shelves and blank panels; change of rack keys; racks supplied by customer, etc.
		Connectivity: Optic fiber cable; UTP cable; Metal cable
		Remote hands: Reboot operations; cable replacement; regular checks of device lamp; backup tape replacement; command input, etc.
		Witnessed operations
		Cage enclosure
		Other features as requested, including power supply, connectivity, and operations
Managed Services	Server Operation Services	We offer high-quality server management for customer systems installed at the Data Center We set quality targets, and provide optimum operation and maintenance in conformance with ITIL standards.
	Security Operation Services	Specialized security engineers provide advanced operation monitoring for security devices. We also offer anti-virus measures and vulnerability diagnosis services.

NTT Communications Corporation http://www.ntt.com

- \bigcirc The information contained herein is current as of May 2011
- \bigcirc Details of services described are subject to change without notice. Please check at the time of application.
- O Names of companies and products are trademarks or registered trademarks of the respective companies.

