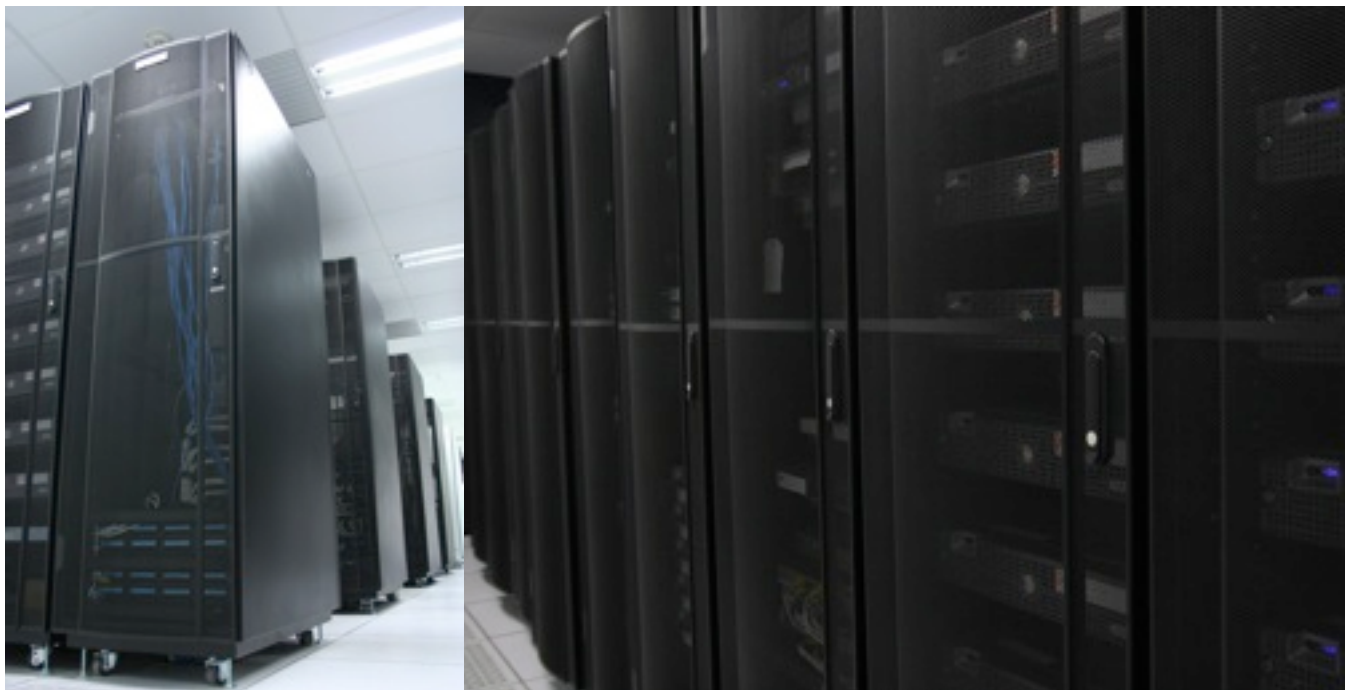




CSLOXINFO IDC@Exchange



IDC@Exchange - Secure and Connected

Get your business protected and connected : "IDC@Exchange" - CSLOXINFO Internet Data Center (IDC) with direct connection to our self-managed internet exchange guarantees fast and uninterrupted on-line services, and a safe place for your computer servers

Are online services crucial for your business? Are thousands or millions of people likely to be accessing your website? Or have they just been dropped because of service interruption or slow access?

Living in a "Web 2.0" era, web sites are not just providing product or service information. Instead, they communicate in rich-media, and many kinds of valuable two-way transactions are fulfilled online: product enquiry, customization, private information transfer, digital content delivery, customer social networks, and payments. With more and more of these critical services conducted online, downtime and slow-speed means loss of your business opportunities.

WHY BUILD YOUR OWN COMPUTER ROOM?

Many things could cause you headaches in keeping your production servers on your own premises: Limited connection speed and network bottlenecks, facility maintenance needed to keep servers working safely and efficiently round the clock, monitoring and troubleshooting, and more. Imagine how much it would cost to build your own computer room that is air-conditioned and has uninterruptible power 24 hours a day and could tolerate electrical outages for at least 48 hours? How much would it cost to expand these facilities as your business grows? Would you need skilled staff working in shifts to take care of them round the clock?

INTERNET DATA CENTER - A SOLUTION FOR CRITICAL ON-LINE SERVICES

CSLOXINFO's IDC@Exchange has ready-made, state-of-the-art computer rooms and support facilities that can host thousands of computers in a secure, controlled environment suitable for mission-critical servers and equipment for online services. These are built to guarantee smooth and reliable operation of your systems. Moreover, our IDC is located next to the center of the internet traffic exchange hub, allowing faster access to your websites.



IDC@Exchange are available in two locations in Bangkok: Cyberworld Tower in Huai Kwang district (near Thailand Cultural Center MRT station) and CAT Telecom Tower in Bangrak District.

	Datacenter Location
Cyberworld Datacenter	4th. Fl. Cyberworld Tower A 90 Ratchadapisek Rd. Huai Kwang (Opposite Robinson Dept.Store Ratchada) MRT Station : Thailand Cultural Center
Bangrak Datacenter	16th. Fl. CAT Telecommunication Bldg. 72 Charoenkrung Rd. Bangrak

REDUNDANT AND UNINTERRUPTED ELECTRICAL POWER SYSTEM

CS LOXINFO IDC@Exchange centers are designed with robust electrical power infrastructure, independent of building electrical systems, at the highest level of reliability. Two sources of high-voltage electrical power feeding from commercial power plants through self-managed transformers are used to reduce the risk of electrical power failure.

Uninterruptible power supply (UPS) guarantees steady electrical power, preventing power brownouts, surges or spikes and providing spare power for important systems to work for hours. Should a longer period of electrical power outage occur, re-fuelable diesel generators will supply power through an automatic transfer switch (ATS) to UPSes and other datacenter facilities in place of commercial power feeds. This also recharges the UPS batteries to maximum level simultaneously. These UPSes and other power system equipment support network monitoring, so the Network Operation Center (NOC) monitors and controls this equipment from the NOC room or even from a remote location, allowing them to diagnose and respond to situations very quickly.



A Representative Power System Specification at Cyberworld Datacenter	
Transformers	Two 2000kVA : active-standby
UPS	Two set of 400kVA UPS with N+1 unit redundancy
Distribution	2N AC distribution raceways with distribution breaker panel
Generator	2500kVA Diesel Generator. 48hrs. worth of generator fuel tank, re-fuelable when active. Automatic transfer switch within 15sec. Initial runtime to full-load within 30sec.

PRECISION AIR-CONDITIONING SYSTEM

As your business grows, more and more equipment, storage and processing power usually means more heat dissipation that needs to be carried out of IDC areas. CS LOXINFO’s IDC@Exchange has efficient and sufficient Heating / Ventilation / Air-Conditioning (HVAC) designed to ventilate under a 60cm-height raised floor to provide good distribution of cold air. N+1 redundant precision air-conditioning systems guarantee controlled temperature and humidity in the acceptable range all the time and in all areas of IDC@Exchange. At least one spare air-conditioning unit per group will be automatically put into operation in case any unit fails.

HVAC system, area temperature and humidity are also monitored and controlled over a network by engineers in the NOC room and those working in remote locations for diagnostics and troubleshooting purposes.

Air-conditioning system specification	
Unit redundancy	6 Active + 1 Standby units per room , Automatic rotation
Cold air distribution	Under 60cm-height raised floor

FIRE PROTECTION AND SUPPRESSION

CS LOXINFO IDC@Exchange areas are equipped with cutting-edge fire detection and equipment-safe FM200 fire suppression systems to minimize damage in case of fire. IDC areas are also built with 2-hr rated fire-tolerant walls.



FLOOD/WATER LEAKAGE CONTROL

CS LOXINFO IDC@Exchange areas are located on the 4th floor of Cyberworld Tower on Ratchadaphisek Road, Bangkok, high enough to be safe from flooding. Wall and floor junctions are sealed, and water leakage sensors are installed and monitored from the NOC room. This minimizes the chance of equipment damage due to water.

EARTHQUAKE

CS LOXINFO IDC@Exchange is located in Bangkok, which is historically at low risk of earthquakes. The building construction standard complies with Bangkok Metropolitan Administration (BMA) regulations.

PHYSICAL ACCESS CONTROL

Physical security is one of our highest operational priorities. Security equipment, techniques and standard procedures are enforced to control, monitor and record all access to the facilities.

All areas of IDC@Exchange are monitored and recorded using CCTV, and all access doors are controlled with biometrics (hand geometry or fingerprint scanner) and proximity-card readers. Visitors are screened upon entry to verify identity and then escorted to appropriate locations. Access history is also recorded.

STAGING AREA FACILITY

CS LOXINFO IDC@Exchange provides convenient staging rooms for setup and maintenance purposes at no additional charge. Rooms are equipped with office furniture, power plug rails, Internet connection, monitor, keyboard and mouse. This area is intended for IT professionals who come to maintain their servers or equipment, so it is decorated in convenient and relaxing tones. Take your equipment here and take your time – no need to tolerate the chilly temperature in IDC areas.

Our total solution services

DATACENTER TOTAL SOLUTION

Need to build your own datacenter? Let our years of experience in building and operating CS LOXINFO Datacenters help you from design, site preparation, and project management to operational staff training.

CO-LOCATION SPACE

CS LOXINFO's engineer team has built state-of-the-art datacenters in Thailand. They are installed with flexible rack space configurations and convenient patching bays, allowing direct access to the data distribution network which allows quick deployment of network interconnection at any speed or media type.

Rack space is available in full, half, 1/3 and 1/4 and shared rack. All with key-locked door and convenient network connection patch bay. Caged rack areas are also available.

DEDICATED SERVERS

Need your own dedicated and freely-configurable hardware and software for common or special purposes? Now you can choose not to invest up front in hardware and software, but rather pay monthly fees as you go.

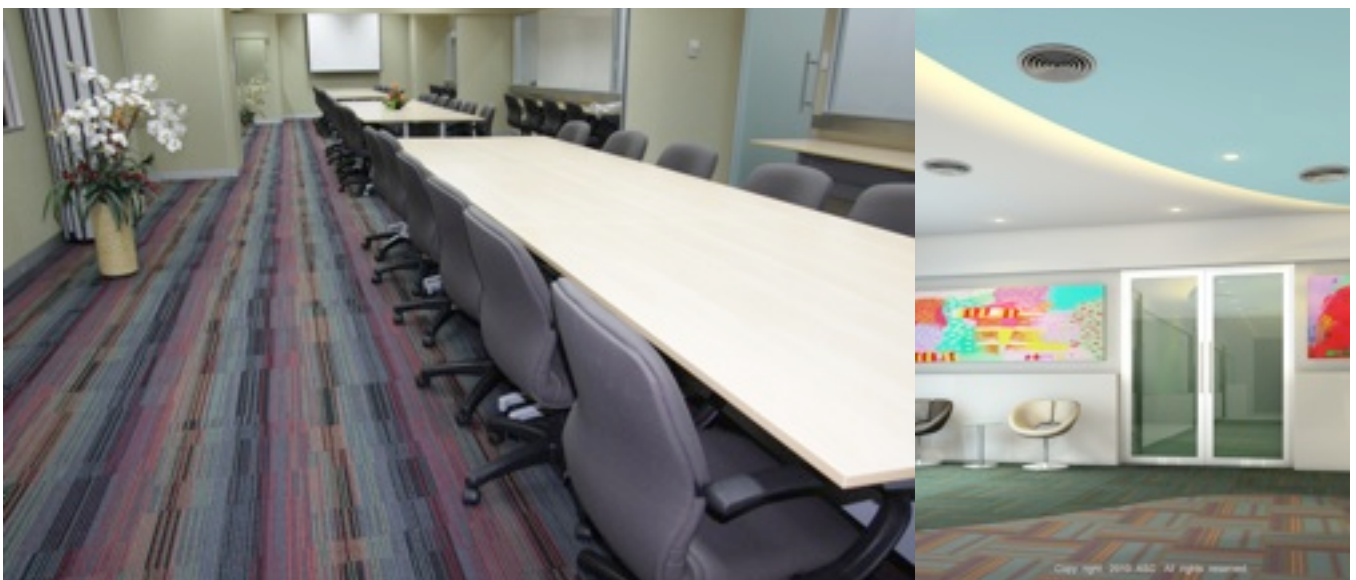
VIRTUAL PRIVATE SERVERS

Still need a dedicated environment but one dedicated server may be an over-provisioning for you? Need a more isolated environment than web/mail hosting? Virtual Private Servers (VPS) give you a virtually isolated machine with freely configurable OS and software that does not interfere with others, and with configurable system resources (CPU/Memory/Disk) that can be expanded or reduced later as you go.

DISASTER RECOVERY CENTER (DRC) ROOMS FACILITY.

In a crisis and you have no access to your office or facility? Do you need a place for your staff to work during that period running a disaster-recovery plan? CS LOXINFO IDC@Exchange can reserve fixed or occasional rooms to suits your needs. Rooms can be arranged in various capacities with flexible facility configurations. Internet and other network connections, telephone, fax machine and also computers for your staffs can be arranged. A pantry room with coffee facilities is also waiting for you.

At Cyberworld Tower, a convenient location far enough from center of bangkok area with MRT nearby, this is a very good place to fullfill your disaster recovery plans





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