



## VinaKom Communications Data Centers

### What are Data Centers?

A data center is essentially a computer room – a physical facility that allows you to store and manage your servers, networks and other computer equipment in a controlled environment. We guarantee regulated power (full back up), a high bandwidth Internet connection, physical and network security, along with 24x7 monitoring and full technical support.



### Why outsource your Data Center?

Even if IT is your core business, setting up your own data center or computer room is an expensive proposition in terms of money, time and deployment of human resources. Apart from the high capital costs, there are the high day-to-day management costs. Routinely adding new services or upgrading to the latest technology is also not feasible. This being the case, it makes sense to outsource this service to a co-location, carrier-neutral data center.

### What to expect from VinaKom Communications Data Centers

When you do business with VinaKom Communications data centers, you can be assured of these exceptional infrastructure features:

#### Co-location

Co-location means that you rent specific space to house your servers along with the servers of other companies in a common physical location.

#### Benefits of co-location include:

- Cost savings in the range of 20%-70%
- Better utilization of space you are using for an in-house data center
- Freedom to focus on your core competencies by letting us manage the IT infrastructure

**Physical Advantages:** The costs of the following facilities in a computer room are a fraction of what it would cost to set them up in-house. We give you:

- Precision-controlled, air-conditioned environment
- 24x7 power backup systems for all your equipment – no downtime or disruption due because of power failure
- State-of-the-art dry-pipe pre-action fire suppression – no critical losses due to fire
- High-level onsite security through surveillance cameras and bio-metrics systems to disallow unauthorized entry
- Option of adding new systems when required and phasing out older systems as they become outdated, at nominal costs

**Connectivity Advantages:** Having your own T1 line to connect your networks across long distances is expensive to acquire and maintain and is not as reliable as the fiber optic connections at a data center. Co-location gives you increased connectivity and greater redundancy without the prohibitive costs

#### Increased bandwidth with reduced bandwidth costs:

We assure you of excess capacity so that there is no latency, even during peak load time.

### Greater network redundancy means maximum up time :

Your business critical applications will always be up and accessible. This is because we support multiple ISPs whose fiber optic lines terminate at our data center. We also support VSAT, wireless and terrestrial.

**Competitive pricing:** A carrier-neutral approach also implies vendor competition, which means that you get competitive pricing and services.

**BGP4 Routing:** Our carrier-neutral data center uses BGP4 on our routers to ensure that your data is sent along the most reliable path and is delivered as fast as possible. If one provider's connection fails, BGP4 allows instant failover and re-routes your critical data over a different path with an alternate provider. Downtime is again minimized.

**Network security:** As an option, we can provide you the latest firewalls/IDS systems which detect and arrest unauthorized advances. Firewalls and security systems need to be updated very often and a co-location provider can provide updated security at the right time and right cost.

**Disaster recovery sites:** We also create disaster recovery sites. In the event of downtime with your primary location, the entire network can be switched to an alternate site. Outsourced disaster recovery costs a fraction of what it would take to set up in house.

**Technical Support Advantages:** With an outsourced data center like VinaKom, you avoid problems of deploying human resources and can expect the highest levels of dedicated service.

**No need to employ specialist:** We deploy qualified technical personnel – with certifications in CCNA and MCSE – who monitor your networks and systems 24x7 in effort to prevent an impending problem from escalating into a crippling crisis.

**Service Level Agreement (SLA):** A strict SLA ensures that you get a guaranteed level of services – in effort to exceed what you may want to achieve in-house.

**Experience advantage:** You get the advantage of our years of experience in managing data centers and qualified technical personnel working to keep your business critical systems functioning smoothly around the clock.

**Help desk facility:** You also get a 24x7 help desk to contact in case of any trouble. Overall, a carrier-neutral co-location data center makes sound, long-term business sense for your company especially if your core business is not IT. A data center like ours provides you with the best services without the accompanying hassles of owning and operating such a facility.

**VinaKom Data Centers** offer clients extremely reliable and highly-secure Managed Data Center and Disaster Recovery Services. Customers have the option of choosing either pre-configured or custom-configured spaces for their equipment.

The data center facility is located in Chicago. Our state-of-the-art facility provides you with a fully managed IT environment that costs only a small fraction of what it would cost you to build and run your own facility.



The Chicago Data Center boasts of a fully redundant traffic-engineered network, supporting Internet speeds ranging from 20 Mbps to 1 Gbps. The facility provides clients with custom hosting solutions at competitive rates. What's more, a remote-controlled building management system monitors and maintains environmental conditions inside the data center.

### Cutting Edge Telecom Infrastructure

- Co-location options include 10 Mbps, 100 Mbps and 1 Gigabit Ethernet
- Access services include a 155 Mbps OC3 and 45 Mbps DS3
- Network-Based Route Optimization with industry-leading Service Level Agreement that guarantees 100 percent network availability
- Long reach Ethernet is also available in select areas



### Finest Internet Infrastructure

Nothing but the best equipment to keep the data center functioning smoothly at all times:

- Redundant routers and switches
- Dual Ethernet handoffs into diverse routers
- Advanced routing for optimal path selection and redundancy
- Connections to every major Tier 1 carrier

### Fully Redundant Data Grade Power

There should be no concern for power breakdown. VinaKom has two Data Centers connected with a private 1Gb fiber for greater redundancy

- 750KVA of robust, conditioned, high quality AC power
- Multiple Liebert® 750 KVA UPS systems
- Multiple 1500 KVA backup generators with 2-day fuel supply and extended refuel contracts
- Additional power options include 120V and 208V circuits, and diverse power source feeds

### Hi-Tech Security

Several layers of both physical and network security for your data and telecommunications

- Multiple layers of hardened physical security
- 24x7x365 security presence
- 24x7x365 closed-circuit television surveillance with digital storage
- Multiple layers of electronically controlled card access
- Multiple card scanner controlled access
- Individually locked cabinets and cages for your equipment
- Visitors required to sign-in/sign-out, have photo ID and must be escorted by data center personnel at all times



### Fire Control Systems

- Early Warning Smoke Detection throughout the data center
- Zoned dry-piped re-action sprinkler system
- Fire-suppression systems are continuously monitored

### Environmental Control

- Temperature maintained between 64 and 78 degrees
- Robust and redundant HVAC
- Infrared humidification
- Overhead delivery.