

Simplex



Data Center Operations

Presentation Outline



Data Center Operations

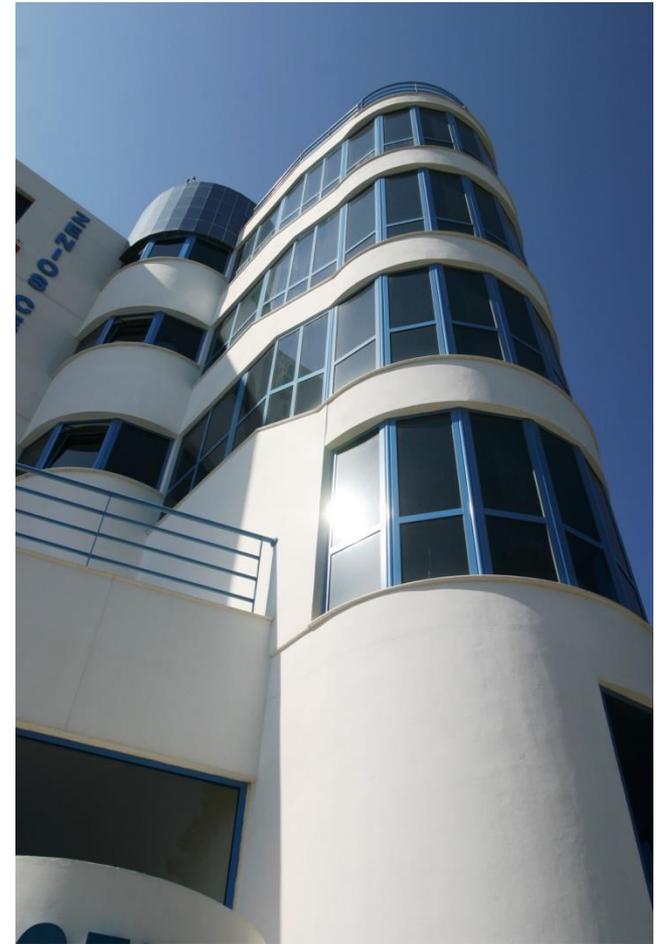
- Company Profile
- Data Center Operations
- Why Cyprus
- Data Center Facilities
- Services
- Why Simplex
- Advantages of Using Simplex
- Q&A

Company Profile

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Data Center Operations

- Cyprus company, established in 2005
- Privately owned offices and state of the art Data Center since 2007
- Services
 - ICT Consulting
 - Web & Internet
 - Data Center
 - Advanced Infrastructure



Company Profile - Clientele

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Data Center Operations

- Customers from all over the world: Cyprus, Europe, Middle East, U.S., Latin America
- Clients from various industries/markets: banking and finance, oil and energy, shipping, manufacturing, distribution, security, ISPs, etc.

There is no customer that is too big or too small; we serve them all at the same high standards



Company Profile - Partners

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Data Center Operations



Help organizations with today's IT challenges:

- Cost for IT infrastructure
- Reliability and availability of network, bandwidth, hardware and power
- Security
- In-house human expertise

- Colocation
- Cloud services (IaaS/SaaS)
- Virtual servers (VMWare and OpenVZ/VPS)
- Web hosting
- Application hosting
- Business resiliency:
 - Offsite data backup
 - Disaster recovery
 - Business continuity
- Managed services and support

Why Cyprus

- Strategic location: at the crossroads of Europe, Asia, Africa and Middle East
- Time zone convenience
- Easy travelling distance
- Daily flights to all major destinations



Why Cyprus

- Political stability (U.N., E.U.)
- Friendly environment for foreign investment
- English widely spoken
- Highly educated workforce
- Advanced telecoms infrastructure

Data Center – Quick Facts

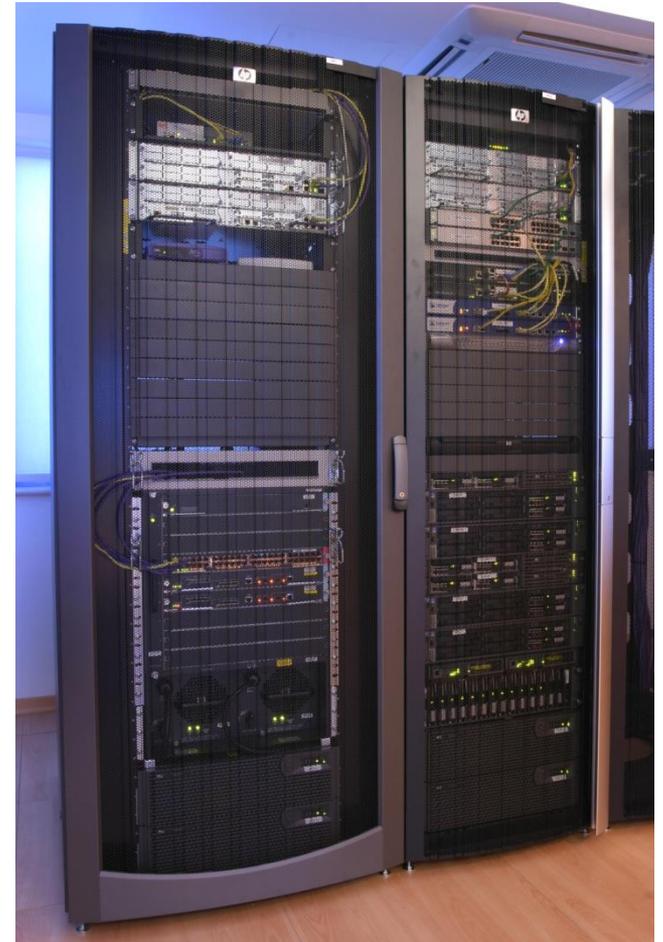


Data Center Operations

- Two fully interconnected (fibre, CAT6A, CAT6) yet fully independent computer rooms at 4th floor and basement, each with 10 racks
- Heart of Limassol (international business center)
- 215m² (approx. 2,314ft²)
- SLAs:
 - 99.999% for electromechanical infrastructure
 - 99.9% for cloud infrastructure

Data Center Facilities - Racks

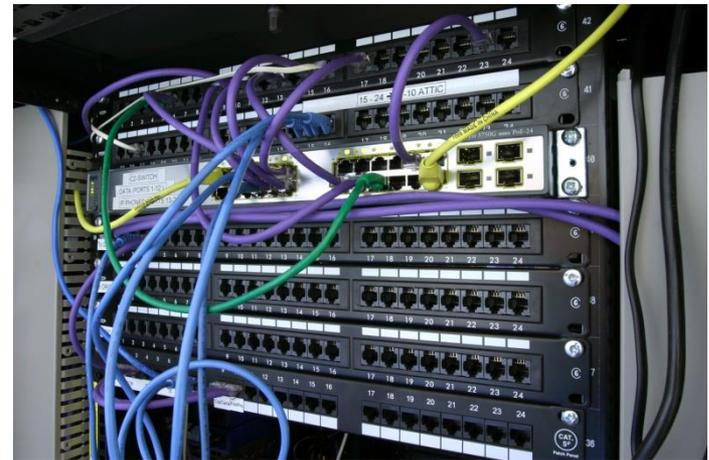
- 19" industry standard racks with RETMA rails and square holes (42U and 36U racks available)
- HP, IBM and APC
- Floor stabilized and bayed with each other
- Independently grounded
- Lockable
- Cable management facilities



Data Center Facilities - Cabling *Simplex*

Data Center Operations

- 4th floor:
 - Raised antistatic fireproof (2hrs) floor
 - Separate under floor cable trays for power and data cabling
- Basement:
 - Rubber antistatic floor
 - Overhead power and data cabling in separate trays
- Copper (CAT6/CAT6A) and fibre data cabling between racks and between computer rooms



Data Center Facilities - Bandwidth

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Data Center Operations

- Carrier neutral (CYTA and Cablenet)
- Two fibres from each ISP coming to the data center from different POPs through diverse paths
- BGP for automated route failover
- One fibre from each ISP to the 4th floor and one to basement
- Fully redundant core routers and switches
- Isolated VLAN for each customer
- 24/7 Monitoring



Data Center Facilities – Power

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Data Center Operations

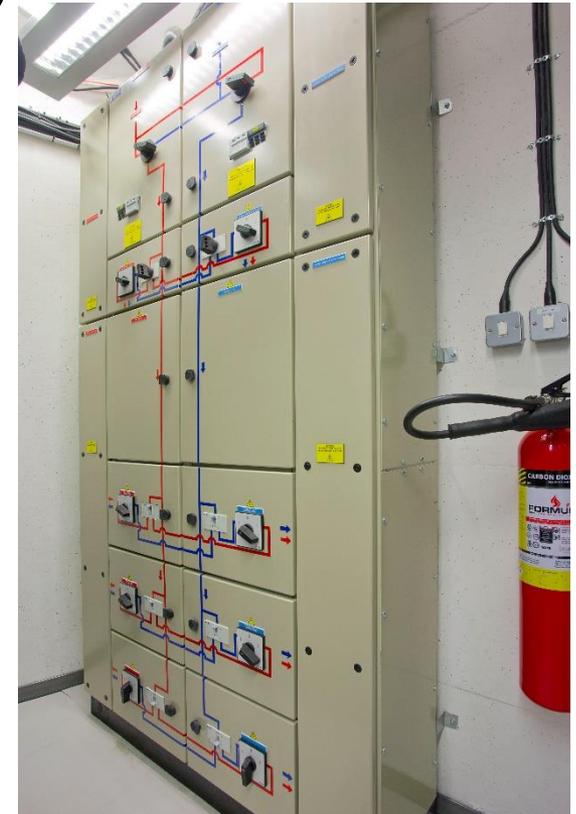
- Two independent 1-phase power feeds per rack (230V, 16A or 32A) with industrial type sockets (IEC309)
- Modular power distribution for quick and easy deployment of non-standard 1-Phase or 3-Phase power feeds
- Two redundant metered Power Distribution Units (PDU) per rack
- Static Transfer Switch (STS) sockets for redundant power to single corded devices



Data Center Facilities - Power

- Fully independent and redundant (2N) UPS units with hot swappable batteries and electronics modules
- Redundant prime power generators

Fully redundant power (concurrently maintainable) all the way from source to the rack (incl. path) with no single point of failure



Data Center Facilities – Fire Detection

- SystemSensor FFAST IP Controlled Aspiration Sensing Technology: very early, highly accurate and reliable fire detection
- Optical/laser HSSD (high sensitivity smoke detectors)
- Sensors underneath and above floor
- Local and remote monitoring on a 24/7 basis
- Redundant wired and wireless signalling and alerting
- 48-hour battery operation

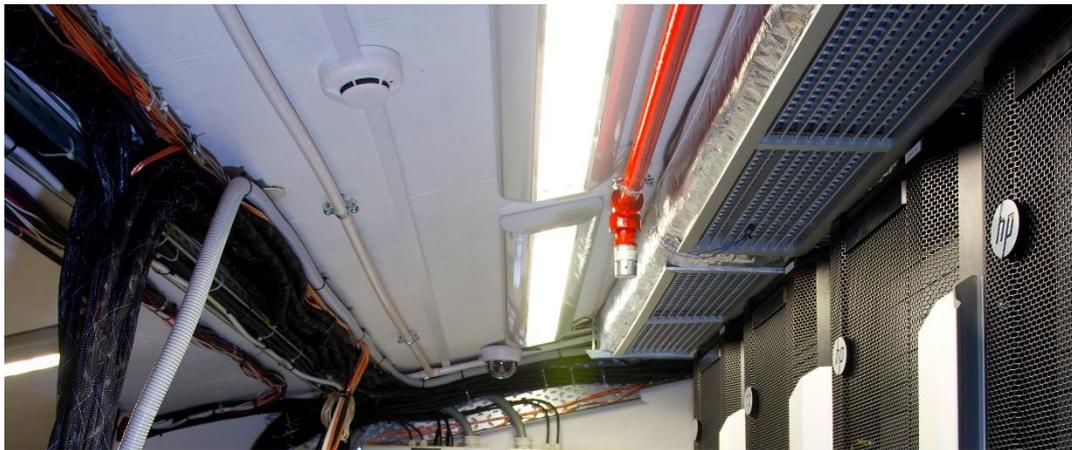


Data Center Facilities – Fire Suppression

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- Fully automatic double-knock FM200 fire suppression system
- Nozzles above and underneath floor
- Manual triggering possible
- 48-hour battery operation
- Hand CO2 Fire Extinguishers



Data Center Facilities - CCTV

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- Full coverage of all entry ways, building areas and site's interior
- Infrared colour cameras
- High quality time lapse video
- Recordings stored on UPS powered DVR
- Retention of recordings for a minimum of 30 days



Data Center Facilities – Access Control

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- Multiple zones
- Multiple levels of access
- Dual identification (proximity cards & access codes)
- Full event recording
- Monitoring of all doors
- Indefinitely retained access records, door transactions, incident reports and access requests
- Battery operation
- Customer-defined access lists

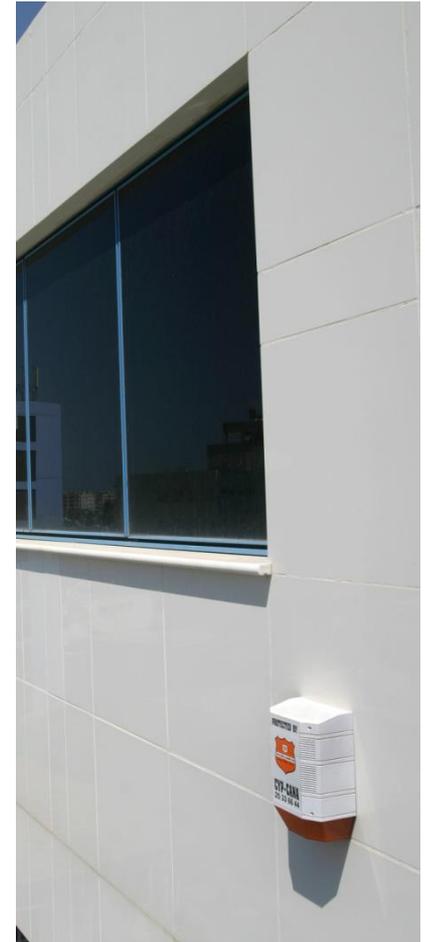


Data Center Facilities – Security Breach Alarm

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- Alarm system for all entry ways
- Complex electronic perimeters by motion detectors
- Local and remote monitoring on 24/7
- Redundant wired and wireless signalling and alerting
- Battery operation
- Patrol service by external security firm during night hours



Data Center Facilities – Environmental Control

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- Fully redundant down-flow HVAC system in hot and cold aisles arrangement
- Full compliance to ASHRAE 2011 standard for A1 class Data Processing Environments
- Room temperature 25 °C (± 2 °C)
- Humidity level 50% ($\pm 20\%$)
- 24/7 environment monitoring
- Blanking panels for optimum air flow
- Fan kits for hot air extraction where necessary

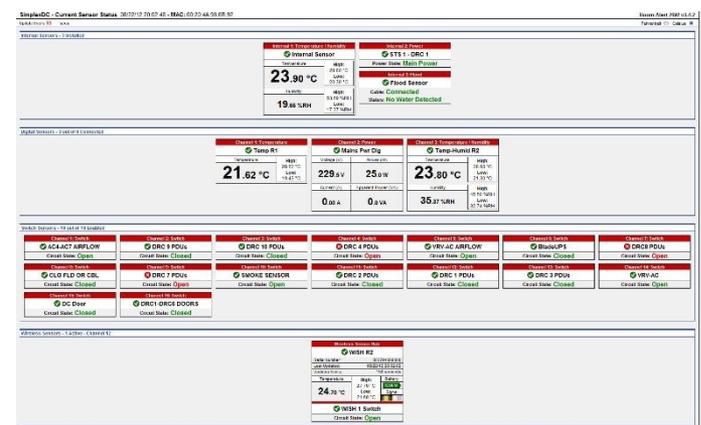


Data Center Facilities - Management



Data Center Operations

- 24/7 monitoring:
 - Cooling equipment
 - Electrical systems
 - Fire control systems
 - Security equipment
 - Environmental conditions
- Regular maintenance and service contracts (generators, UPS, HVAC, fuel, etc.)
- Procedure-based reaction to any possible incident (ISO9001:2008)



Data Center Facilities - Other

- Remote emergency office space with private LAN for fast direct access to your servers/data and high speed Internet connectivity for quick recovery of fundamental operations
- Fully equipped conference room with 47” screen, whiteboard, IP video conference and telephone
- Staging area for secure and comfortable equipment configuration with Internet access and direct private VLAN access:
 - Clean and tidy data Center
 - Minimum human interference
- Secure equipment storage
- Larger office spaces at remote locations



Technical Expertise

- Minimal investment for in-house skills
- Highly skilled engineers
- Systems management, maintenance and support
- 24/7 expert rapid response to any fault
- 2-hour guaranteed response time
- Services:
 - Equipment fixes
 - Equipment racking
 - Complex installations
 - Systems configuration
 - Troubleshooting
 - Solution design & implementation
 - Equipment supply/procurement

- 36U or 42U whole rack
- Half rack (18U or 21U)
- Per U space
- Fully redundant UPS/PDU power
- STS facilities
- Generator backed power
- Use of rack mountable keyboard/monitor/mouse



Services – Internet Connectivity *Simplex*

Data Center Operations

- Dedicated or shared bandwidth
- Option for dedicated direct fiber connectivity from preferred ISP (carrier independence)
- High speed point to point (wired or wireless), VPN or MPLS connectivity with customer premises
- Dedicated real/Internet IP addresses



- Reliable and affordable servers according to client needs (CPU, RAM, Storage, O/S, etc.) – **NO CAPEX**
- Fully redundant highly available infrastructure (servers/storage/network)
- Microsoft, Symantec, VMWare and Veeam licenses on a monthly basis (SPLA, ExSP, VSPP, VCP)
- Daily granular backup
- Endpoint security (anti-virus)
- Dedicated IP addresses
- Ability to integrate into hybrid setup (on-premises or collocated infrastructure)
- 24/7 monitoring of infrastructure and services
- 24/7 technical support for business critical and high impact issues

Services – SaaS

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Data Center Operations

- Cost effective: no upfront investment, monthly usage-based fee
- Highly available secure infrastructure
- Granular backup with 2-week retention
- 24/7 technical support



Services – Virtual Servers

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- VMWare virtual/cloud servers (IaaS): performance like dedicated server, separate resources for each VM
- OpenVZ/VPS:
 - Entry-level, low spec requirements
 - Optimal and fair resource allocation
 - Self-managed
 - Value for money

vmware®

 OpenVZ

Services – Backup & Disaster Recovery

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Data Center Operations

- Offsite Data Backup
 - SQL Server, Oracle, Exchange, files, etc.
 - Full privacy/encryption
- Disaster Recovery
 - Redundant servers and applications
 - Live or batch data replication
 - Remote access
 - Rented licenses
 - Option for use of affiliated data centres



- Full business resiliency
- All facilities of disaster recovery
- Use of fully equipped private office (local or remote depending on number of people to accommodate)
- Full resume of fundamental operations within 24 hours



Services – Remote Hands & Eyes (RHE)



Data Center Operations

- Receive and safely store customer equipment until ready for deployment
- Storage of cold spares
- Help in racking up and configuring equipment
- Extend reach and sight
 - Visual inspection of equipment
 - Equipment and parts replacement
 - Machine restarting
 - Accompanying of third party engineers
 - Log reading

- Web hosting, domain and DNS services
- Application hosting
- Dedicated servers
- Managed servers
- Solution design & implementation
- Supply/procurement of equipment



- For solutions designed by us or not
- For solutions located in our Data Center or another, remote, location
- Ensure 24/7/365 smooth running of infrastructure/systems
- Maximize systems and data availability
- Systems administration, monitoring and management
- Preventive action (upgrades/patches) and re-configuration
- For servers, storage, network infrastructure (firewalls, switches, routers, etc.), security, operating systems, databases, etc.
- Managed backup and restore

Why Simplex



Data Center Operations

- Single point of contact for all your IT needs
- Strategic location
- Workforce expertise
- Partnership with global leading vendors (APC, Cisco, HP, etc.)
- State-of-the-art Data Center
- Physical and network security
- Fully redundant and reliable core infrastructure with world-class SLAs
- High bandwidth connectivity
- Scalability
- Operational Support

- Focus on core business thus increasing efficiency and most importantly profitability for your organization
- Reduce IT-related capital expenditure and running costs
- Enjoy the advantages of IT expertise without incurring the cost and effort to manage, maintain and operate an in-house IT department which cannot ever be fully fledged anyway
- Peace of mind: highest levels of availability, reliability and security
- Reduced time to market and lower costs of IT products and services
- High customer service standards

Contact Details



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Thank You!