

# Facilities Description

## DFW1 Data Center – Grapevine, TX

### Data Centers

Rackspace® currently maintains eight data centers which house over 35,000 servers. Each data center is manned 24x7x365 by Rackspace personnel and monitored centrally from our headquarters in San Antonio, TX.

**Rackspace SAT1 Data Center** – San Antonio, TX

**Rackspace SAT2 Data Center** – San Antonio, TX

**Rackspace IAD1 Data Center** – Herndon, VA

**Rackspace DFW1 Data Center** – Dallas, TX

**Rackspace LON1 Data Center** – London, UK

**Rackspace LON2 Data Center** – London, UK

**Rackspace LONB Data Center** – London, UK

**Rackspace Slough Data Center** – London, UK

### DFW Data Center Overview – 53,000 square feet of 24” raised floor

#### Security

- Card reader access required to enter facility
- Biometric scanner access required to enter data center floor
- Proximity readers track all movement between areas
- Security cameras recorded by digital video recorder
- Bullet-proofing behind all windowed areas

#### AC Power Systems

- Facility rated at 100 watts per square foot
- Four 3,000 KW transformers (N+1 configuration)
- 60 United Power PDU's

#### UPS

- Six 2000 KVA Powerware UPS Systems (1+1 configuration)
- 320 UPS power distribution panels
- UPS-fed panels are fully redundant
- UPS provides instantaneous conditioned power for facilities until generator synchronization; transfer of power is automatic
- 30 minutes battery life at peak load

#### Generator

- Two sets of four 1,500 KW Cummins diesel generators (1+1 configuration)
- Generators activate and fully synchronize within 30 seconds
- Each generator has its own supply system with 2500 gallon tank
- Three fuel suppliers under contract to deliver fuel as needed
- 48-hour on site fuel capacity under full load

### Data Center Photos



Data Center Floor – Server Cabinets



Power Equipment



McQuay Centrifugal Chiller Unit



Secured Entry

MODIFIED DATE: 1-03-2008

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### Fire Suppression

- Siemens Cerberus Pyrotronics System with Vesda smoke detection
- Pre-action dry pipe fire suppression system
- Portable dry-chemical fire extinguishers
- Fire doors and firewalls protecting separate facility areas
- Heavy-duty lightning rod grid

### HVAC

- 720,000 CFM delivered to raised floor area
- 3,000 Tons of cooling capacity (N+1 configuration)
- Thirty-eight air handling units equipped with HEPA filtration
- Three 1,000-Ton McQuay centrifugal chillers
- Three cooling towers, chilled water loop pumps, and condenser water loop pumps
- Redundant water sources for cooling towers

### Facility Monitoring

- OpenNMS network monitoring software
- Pacific-Rim Facility Monitoring System
- Temperature and humidity controlled by Trane Tracer Summit Control system
- Electrical Systems monitoring by Eaton FORSEER Systems

### Customer Rack Systems

- Standard Rittal & APW cabinets (7' x 24" racks with 19" mounting)
- Customer cabinets set with 1+1 redundant power to PDU

### Customer Access

Customers retain full administrative control of their leased servers. Rackspace retains control of dedicated networking hardware such as firewalls and load balancers. Console level access is typically provided via Terminal Services or SSH over VPN, depending upon platform.

### Backup and Recovery

Fully managed backup to centralized storage is available; offsite tape rotation is optional.

## Network Infrastructure — Redundant Cisco 3-tier LAN architecture

### Physical Connectivity

- Multiple fiber carriers
- Six separate fiber conduits into the facility
- Copper and fiber installed and terminated to onsite demarcation

### Transit

- Multiple Tier-1 Service Providers
- 1 10 Gigabit Ethernet per carrier (over 20 gigabits of total bandwidth available)

### Redundant Routing and Switching Environment:

- Cisco 6500-series core routers
- Cisco 4948 and 3750 aggregation routers
- Cisco 2950 / 2960 / 2970 distribution switches

## Data Center Photos



Biometric and Proximity Access Controls



Vesda Early Warning Smoke Detection System



Generator Yard



Power and UPS Room

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