

DFW3

CyrusOne Data Centers
Dallas - Allen
2300 Chelsea Blvd.
Allen TX 75013

Strategically located in Allen, Texas, CyrusOne's newest Dallas – area data center will be 976,000 square foot and contain 580,000 square foot of raised floor/ white space at full build out. The facility is purpose-built, offering industry leading efficiencies, the latest cooling technology, uniquely low PUE's and multilayer security. With over 90 acres, at full build, CyrusOne's **DFW3** campus will be the largest data center campus in Texas.



Overview

- Data Hall 1 – 60,000 Square Feet
- Campus will be 580,000 Square Feet at full build
- ISO/IEC 27001, PCI DSS, HIPAA/HITECH, FISMA-High, SSAE 18 (SOC 1 Type II), Type 2 AT 101/SOC 2, HITRUST, FFIEC, CSA STAR, Business Continuity and Disaster Recovery (BCDR), and TRUSTe compliant
- Designed to meet TIA 942 Class 4 requirements for electrical and mechanical
- Carrier-neutral and part of the CyrusOne Internet Exchange (IX)
- 100% uptime service level agreement on power

Power

- Utility capacity – 50 MW
- Utility Voltage – 24,900 (25 kV)
- # of Utility Feeders – 2 each (non-redundant)
- # of transformers on site – 26 Transformers (24 each @ 2.5 MW, 1 each @ 1 MW, 1 each at 2 MW)
- UPS configuration & capacity - Distributed redundant, with 4,500 kVA blocks (6 MW)
- Generator Power – 24 each 2.25 MW Diesel (Critical), 1 each 1.25 MW Diesel (House)
- Electrical capacity allowed per cabinet – 150 to 180 watts p/SF (average density)

Cooling

- Cooling Plant type and size – Closed loop, air cooled chilled water system (N = 4.5 MW)
- Cooling capacity per cabinet - 150 to 180 watts p/SF (average density)

Security

- Physical – 8' high perimeter steel ornamental exterior fencing
- Anti-tailgating system with raising and lowering arms at vehicle entrance
- Guards – Onsite guards man a dedicated Security Office at the main entrance (lobby) to the building
- Electronic – A security system consists of various devices (card readers, badge readers, bio-readers, etc.) either permitting or denying access to various parts of the building
- Access parameters are controlled through local onsite guards
- Standards Compliance and Certifications – All local codes and standards are adhered to. CyrusOne standards and regulations are also in place for both safety and fire protection

Connectivity

- Carrier-neutral and part of the CyrusOne Internet Exchange (IX)

Energy Efficiency

- Ultra Low PUE through the use of a closed loop chilled water system

Building

- Construction Type – Concrete Tilt-Panels with slab on grade. Steel truss overhead structure with modified built-up roofing membrane to meet specific wind up-lift parameters.
- Building Type – Critical Services
- Floor Load Capacity –
 - Data hall white floor space is 320lbs p/SF
 - CRAH gallery floor capacity is 2,000lbs p/SF

Fire Detection and Suppression

- Fire Detection – Three stage detection system and data halls and UPS enclosure spaces
- Fire Suppression – Combination wet type sprinkler system in offices and pre-action type sprinkler system in critical and critical support spaces
- VESDA (Very Early Smoke Detection Apparatus)

Certification/ Audit Compliance Accreditations

Through disciplined assessment and audit processes, CyrusOne has implemented comprehensive practices for:

- ISO/IEC 27001
- PCI DSS
- HIPAA/HITECH
- FISMA-High
- SSAE 18 (SOC 1 Type II), Type 2 AT 101/SOC 2
- Business Continuity and Disaster Recovery (BCDR)

Sustainability

- **Water Free Cooling:** No water is used to cool this facility (such as water towers or evaporative cooling). Minimal amounts of water are used for humidification and facility maintenance.
- **Water risk:** Currently rated at Medium to High Risk, but expected to move to High Risk in 2030 and 2040 (based on WRI Aqueduct Tool).
- **Carbon Intensity:** Carbon emissions of the local grid were 1,009 pounds CO2/MWh in 2016 (last year reported), a 29% improvement over 2004 (based on US EPA eGRID data).
- **Grid renewables:** The local grid gets 14.5% of its power from renewable sources (wind, solar, biomass, hydro, and geothermal; based on US EPA eGRID data).

Site Plan

