

# Sterling I, II and III

**CyrusOne Data Center**  
**21111 Ridgetop Circle**  
**Sterling, VA 20166**

This Northern Virginia data center is an enterprise-class facility located in Sterling, Virginia. The data center campus is 420,000 square feet and sits on 14 acres. With direct access to one of the largest Internet Exchange points in the U.S., superior fiber connectivity makes this data center ideal for colocation of high performance computing, for which CyrusOne is known. It's conveniently located near dozens of hotels, restaurants and other amenities and only eight miles from Dulles International Airport and 30 minutes from Ronald Reagan Washington Airport.



## Overview

- 420,000 sq. ft. campus at full build
- Planned – SOC 1 type 2 and SOC 2 type 2, PCI DSS (sec 9 & 12), HIPAA, ISO 27001, FISMA
- CyrusOne Facilities are designed to meet TIA-942 requirements for electrical and mechanical
- High Performance Computing (HPC) capable, supports 200 watts/sf with the ability to support over 1,000 watts/sf.
- Efficient, divisible floor plates
- Carrier-neutral facility
- 100% Uptime service level agreement on power
- 24x7 staffed NOCC and remote hands support
- Dedicated cages and private suite options available

# Sterling I, II, III Technical Specifications

## Power

- Up to 48 MW of total capacity
- 48 MW of critical power at N and 36 MW at distributed redundant
- Multiple levels of redundancy available within the same footprint (i.e. N, Distributed Redundant, 2N, or a combination)
- Dual-Input PDUs with Static Transfer Switches (STS's)
- 85.5MW dedicated diesel generators
- 6,800-gallon belly tanks for each generator (supports critical load for 48-hours) with diverse refueling agreements.

## Cooling

- 36-inch raised floor design
- Utilizing Stulz 200-ton CRAH units with electronically commutated (EC) variable-speed fans
- Highly-efficient 500-ton Trane chillers with rapid restart and adaptive controlled microprocessors
- Ability to scale as density increases in an N+1 central plant design and an N+2 air-side design.

## Connectivity

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

## Energy Efficiency

- Leverages efficiency measures never before seen in this capacity
- Offers powerful cost reduction opportunities for enterprises customers

## Fire Detection and Suppression

- Very Early Smoke Detection Apparatus (VESDA) system; sampling air in parts per million coupled with a zonal dual-action interlocking dry-pipe pre-action system

## Building and Energy Management Systems (BMS & EMS)

- Local and remote real-time monitoring of electrical and mechanical systems alert dedicated 24/7 year round facility management crewmembers

## State of the Art Engineering

- Engineering is specifically designed to achieve optimal flexibility for even the largest-scale deployments and build-outs
- Suitable for high performance corporate environments

## Security

- 24/7 year-round onsite data center security guards
- Video surveillance and recording of exteriors and interiors
- Biometric and key card security for strict access control
- Turn style and other secure doors to prevent tail gating
- Reinforced physical infrastructure that can include concrete bollards, steel-lined walls, and bullet resistant glass
- Dedicated data halls, suites and cages to minimize traffic.

## Certification/ Audit Compliance Accreditations

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

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

CyrusOne is not FEDRAMP certified, through implementation of these processes, CyrusOne customers have been successful in obtaining their FEDRAMP certification. In addition, CyrusOne is designed to meet TIA 942 Class 4 requirements for electrical and mechanical.

## Location/Amenities

- This location is in an area considered one of the safest in the country: free from natural disasters including seismic activity, tornados and hurricanes
- State-of-the-art offices, fitness center, staging room and hoteling space

## Site Plan

