

Data Center Specifications: ACC4



Building



LOCATION: Ashburn, VA

ACREAGE: 17.15

BUILDING SIZE: 348,000 SF

NEAREST AIRPORT: Dulles International Airport

UTILITY POWER: 34.5 kV

PARKING: 153 spaces

NUMBER OF STORIES: One, plus penthouse

LOADING DOCKS: Three dock bays

FIRE PROTECTION: Double interlocked pre-action sprinkler system with VESDA monitoring system standard

Discover one of the most efficient and cost-effective data centers in the world, built from the ground up to deliver maximum power and reliability. ACC4 is sited on 17 acres of the Ashburn Corporate Center campus in Loudoun County, a Virginia area known as Data Center Alley. With 20 independently backed up computer rooms and 36.4 megawatts of critical power capacity, ACC4 offers a density of 207 watts per square foot and takes advantage of eco-friendly reclaimed water for advanced evaporative chilling.



Computer Room Specifications

SIZE: 11,000 SF (average) for 2,275 kW rooms; 5,500 SF (average) for 1,137.5 kW rooms

CRITICAL POWER CAPACITY: 1,137.5 kW—2,275 kW

CRITICAL POWER: 36.4 MW



Data Center Area Description

COMPUTER ROOM FLOOR: 171,200 SF

NUMBER OF COMPUTER ROOMS: 20

RAISED-FLOOR HEIGHT: 48"

COMPUTER ROOM FLOOR-TO-CEILING HEIGHT: 15'-22'

OFFICES: 13

STAGING: Six rooms



Security

BUILDING AND PERIMETER: Fully monitored by CCTV cameras and security officer patrols

SECURITY OFFICERS: 24 x 7 x 365

ACCESS CONTROL: Electronic security features with access card entry

CCTV: Yes (minimum 95-day video retention)



Communications

POE: Four separate network POEs with diverse underground duct banks leading into the facility

CONDUITS: Dedicated conduits to each computer room

MULTIPLE CARRIERS: DFT is carrier-neutral

MEET-ME-ROOM: Available



Systems

UPS SYSTEMS: Thirty-two 1,300 kW rotary UPS in isolated-parallel configuration. Redundancy: N+2, each phase

GENERATORS: Thirty-two 2,250 kW diesel-engine generators. Redundancy: N+2, each phase

HEAT REJECTION SYSTEMS (HVAC): 16 centrifugal chillers, each with 1,080-ton capacity. Redundancy: N+2, each phase. 500,000 gallons chilled water storage, each phase

PDU: Voltage: 208/120 V. Redundancy: N+1, with optional 2N

ONSITE FUEL CAPACITY: Four 50,000-gallon underground diesel-fuel storage tanks. Minimum 55 hours fuel run time



Connectivity

- Amazon Web Services
- BT
- Century Link
- Cogent Communications
- FiberLight
- GTT
- Intellifiber
- Internap
- Level 3 Communications
- Net Data Centers
- Sidera Networks
- Verizon
- Verizon Business
- XO
- Zayo Group