

# Ashburn, VA Data Center IAD02

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## Overview

Ashburn has become home to the largest data centers in North America. There are many reasons for this, including numerous dense fiber rings, open spaces for construction, low-cost power and substantial tax incentives. Ashburn has a low disaster event rating and is ideally located on the eastern coast. With its mature infrastructure and highly educated talent pool, several airports, copious hotels and a business-friendly environment, Aligned is proud to have a presence in Ashburn, VA.

# 26



BUILDING ACRES

# 513,000



SQUARE FEET

# 120



MEGAWATTS

## Building Specifications

- Completion in 2020
- Campus is 26 acres
- Expandable to 120 MW
- White space square footage: 283,023 sq. ft.
- Building square footage: 438,460 sq. ft.
- Private, dedicated data center suites
- Concrete slab-on-grade and structured steel
- Two interconnected multi-tenant buildings
- ASCE 7 occupancy category IV data hall FM-120 and office FM-90 roof lift ratings
- Wind importance factor of 1.15
- Two bays with delivery platform and equipment trap
- Dedicated office space for rent
- Shared conference rooms and drop-in office pods
- 24x7x365 accessibility
- Industry-leading PUE

# Building Specifications

## NETWORK

Ashburn, the most connected market on the planet, is home to the world's densest fiber network, and the new Aligned Ashburn sits positioned atop fiber and conduit routes that offer access to more than 50 carriers in the immediate area. Aligned's building is less than 800 feet from the original UUNET-managed MAE East Exchange, the first Internet Exchange Point, and less than a mile from a global internet exchange that is the current center of connectivity in Northern Virginia.

- Two diverse points of entry, per build
- Carrier-neutral
  - On-net Carriers
    - Cogent
    - Lumen
    - PacketFabric
    - SummitIG
    - Verizon (VCT & VCB)
    - Zayo
  - Near-net Carriers
    - AquaComms
    - BT
    - Colt
    - Deutsche Telecom
    - GTT
    - Hurricane Electric
    - NTT
    - PCCW
    - Tata
    - Tennebris Fiber
    - TeliaSonera
      - Major exchanges in NoVA
      - And many more
- Less than one mile from 21715 Filigree Court Carrier Hotel
- Major fiber thoroughfares within ~100 feet of facility
- Seamless build process for carriers not already built in
- Diverse meet-me-rooms and fiber entrances with dark fiber and lit services available

## POWER

- Diverse and dedicated substations: expandable to 240MW
- Concurrently maintainable UPS
- N+2 power generation
- Redundant A+B distribution
- Revenue-grade metering

## SECURITY

- 8' Impasse steel security fencing with laser intrusion detection
- Five-layer security design
- Card reader access
- 24x7x365 on-site security guards
- Multiple checkpoints: mantraps, dual authentication (biometrics and RFID badge readers)
- Event-driven IP video surveillance and visual light-based alerts

## CORPORATE SUSTAINABILITY

- Uses up to 85% less water
- Uses up to 80% less power
- 100% renewable energy available
- 100% of IT load matched with renewable energy sources
- Industry-leading PUE, WUE, and CUE
- Reclaimed water for mechanical plant



## FIRE PROTECTION

- Separately zoned data halls
- Very Early Smoke Detection Apparatus (VESDA)
- Dual interlock pre-action system

## COOLING

- Our hot aisle containment strategy absorbs heat at its source - supporting standard and high power densities and allowing you to scale vertically and horizontally - without stranding capacity.
- Configurable to client needs (i.e., N, N+1, 2N)

## COMPLIANCE

- System and Organization Control (SOC) 2 Type 2 and SOC 1 Type 2, PCI DSS, HIPAA, HITECH, FISMA / NIST 800-53, and ISO 27001:2013



## CONTACT ALIGNED TO LEARN MORE

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## ABOUT ALIGNED

Aligned is an infrastructure technology company that offers adaptable colocation and build-to-scale solutions to cloud, enterprise, and managed service providers. Our intelligent infrastructure allows densification and vertical growth within the same footprint, enabling customers to scale up without disruption, all while maintaining industry-leading Power Usage Effectiveness (PUE). By reducing the energy, water and space needed to operate, our data center solutions, combined with our patented cooling technology, offer businesses a competitive advantage by improving sustainability, reliability and their bottom line.

For more information, visit [www.aligneddc.com](http://www.aligneddc.com) and connect with us on [Twitter](#), [LinkedIn](#) and [Facebook](#).