

An Adaptive Data Center for Dynamic IT

Aligned's Ashburn Data Center Campus
IAD-01 | IAD-02

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An adaptive data center

Business needs and IT loads are moving targets. At Aligned's colocation data centers, you can adapt on demand, keeping capacity, performance, and reliability in sync no matter how quickly your requirements change. Whether you're a service provider or an enterprise, with Aligned you'll have an experienced partner on your side.

Adaptive

We can deliver a scalable data center solution sized to your requirements today, and provision capacity on demand as your needs evolve. We'll grow along with you both vertically (in terms of power density) and horizontally (in terms of square feet).

Dynamic infrastructure

Our patented cooling technology not only lowers costs, but is also ultra-efficient and sustainable. It supports standard and high power densities (up to 50kW per rack) and offers an industry-leading PUE. Efficient and reliable in any climate, at any load, our cooling technology can grow and scale with you incrementally as needed.

Client portal

Our client portal offers true transparency, with a singular entry point that spans capacity planning, asset optimization, help desk ticketing, and business intelligence. Instead of multiple access points, you have one centralized portal, enabling broader visibility and a more insightful approach to asset management.



Engineered for resiliency

Resilient

400-year

100% Uptime SLA & carrier-neutral connectivity to ensure your IT operations are always online.

Independently validated—via Fault Tree Analysis—with a reliability class of 0.25% (400-year MTBF).

Critical capacity

180MW

Ashburn hyperscale data center campus to support 180 MW of critical capacity at full build.

Efficiency

Industry-leading

PUE

Rack density

350kW

Variable standard and high density power (up to 350 kW per rack) to support high performance compute and AI / ML / DL demands.

Security

365

Our data centers protect your environment behind multiple layers of physical access controls, including perimeter fences with intrusion laser detection, 24x7x365 on-site security, mantraps, dual authentication including biometrics, event driven IP video surveillance, visual lightbased alerts, and more. We also provide round-the-clock engineering assistance and global monitoring via our Network Operations Center (NOC).

Design & facility

Tier III

The campus is built to Tier III facility and design standards to ensure our data center is consistent with your uptime objectives.

Services

Build to Scale

Data Center Footprints

Fully enclosed footprints trap and absorb hot air at its source. Footprints easily scale to thousands of racks, allowing you to expand your IT load horizontally and vertically, on demand.

- Variable and contiguous rack densities (up to 350 kW)
- Whip installations or overhead power busways—expandable on demand
- Delta Cube air-cooling units remove heat at its source
- Delta Flow~ liquid cooling available
- Cross-connect services or direct carrier interconnection available
- Lockable walls for privacy and air containment supplied by you or Aligned
- Standard Client Portal offers asset monitoring, help desk ticketing, business intelligence, and capacity forecasting from a single entry point

Remote hands support

Get expert assistance with colocation equipment racking, reboots, disk changes, triage, cross connections, and more. Our engineers are available on-site whenever you need them.

Slab floors

Our technology eliminates the need for raised floors.

Connectivity

Aligned Access™

Aligned Access provides high reliability connections and low-latency transport wherever you need to go with Cloud Access, DCI Access, Transport Access and On-net Access solutions.

Seamlessly expand your reach and dynamically connect to customers and partners; cloud, IT service and network providers; Internet Exchange (IX) platforms; and Internet Service Providers (ISPs) found within our data centers as well as beyond them.

Flexible Entrance Options

- Our facilities feature redundant Meet-Me-Rooms and diverse conduit entrance pathways.
- Aligned offers direct carrier interconnection, including dedicated carrier facilities to client suites.

Additional

Custom Client Portal

Opt for a fully customized Client Portal to further tailor the tool, or extend monitoring beyond your Aligned environment.

Dedicated office & storage space

Strengthen your operational performance and ensure efficiency with dedicated office and storage space. Your space is on-net and connected to our UPS system for consistent and reliable functionality.



Data Center Footprints

What Makes Us Different

- **Hybrid Cooling.** Air, liquid, or a hybrid of both, our cooling systems and turnkey designs provide infrastructure that scales seamlessly to meet your technology requirements—from 3 to 300kW per rack and beyond.
- **ExpandOnDemand™.** Flexible design, standardized delivery process. A seamless path from air to liquid cooling in a live environment -ready today. Remove the need to completely retrofit existing buildings or build AI-dedicated build-to-suit facilities.
- **Speed-to-Market.** Our power-first philosophy, aggressive and strategic land acquisition, robust supply chain, and capital strength help reduce your time-to-market on large swaths of capacity.
- **Capital Strength.** A strong and stable capital stack allows us to be the industry's most flexible provider, delivering more creative deal structures and the land, power, and equipment our customers require, when and where they require it.
- **Sustainability.** From industry-leading PUEs, to carving a pathway to zero waste construction and supply chain decarbonization, using 0 water in the data hall, to land reclamation, we are the industry's leading change agent for sustainability.

About Aligned

Aligned Data Centers is a leading technology infrastructure company offering innovative, sustainable, and adaptive Scale Data Centers and Build-to-Scale solutions for global hyperscale and enterprise customers across the Americas. 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 and connect with us on X, LinkedIn and Facebook.

For more information
or to schedule a data center tour,
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