HPE GreenLake

HPE Secure Edge Data Center Implementation Services

Working together to accelerate sustainable outcomes

Enterprise Computing at the Edge—the new paradigm

The world today is being shaped by pervasive digital connections between systems, people, places, and things. People have higher expectations for transparency, immediacy, connectivity, ease of use, speed and availability, and want to be surprised with increasingly innovative services. In response to this disruption, data center owners and operators need to react fast to changing markets, finding new channels, anticipating and exceeding their customer expectations, becoming more flexible and agile, and quickly implementing new business models and use cases, products, and services.

To address those needs, technology is at the edge of a disruptive change to the way IT provides these experiences. Artificial intelligence, data analytics, machine learning, and cloud architectures are combining to change the way we look at the world. Additionally, the deployment of intelligent sensors allows us to see the world from new angles, discovering information we never even had access to before, augmenting our decision-making in real time, and contextualizing the services and products we consume.

In fact, the technologies that will enable “smart everything” in the future—cities, venues, retail, agriculture, transportation, health, manufacturing industries, and such—require the massive deployment of Internet of Things (IoT) devices and sensors and the Industrial IoT (IIoT). IoT and IIoT together, harness sensor data, machine-to-machine communication control, and automation technologies to generate large amounts of data and network traffic.

In this new digital economy, data is the new currency. Creating, mining, and leveraging this data explosion will be your critical success factor in remaining a competitive force in your industry. Edge computing will be the only alternative to address those challenges—bringing bandwidth-intensive content and latency-sensitive applications through a more distributed computing cloud architecture closer to the user or data source. It is inserted into a logical end point of a network (internet or private network), as part of a larger cloud computing architecture.

To operate it all, edge data centers will bring bandwidth-intensive content closer to the end user and latency-sensitive applications closer to the data. Computing power and storage capabilities are inserted directly on the edge of the network to lower transport time and improve availability.

Product overview

Secure Edge Data Center
The Secure Edge Data Center (SEDC) is an all-in-one industrial data center solution, customized for IIoT and digitalization rollout in harsh environments:

Get started quickly—It is pre-engineered and delivered as a factory-integrated and tested solution, equipped with preconfigured HPE software-defined infrastructure and with a comprehensive installation services package for hassle-free turnkey deployment. Once delivered on-site, it can be up and running in less than one week.

Secure digital processes—The SEDC is IP rated, protecting against humidity, dust, and dirt, thus avoiding the need for classical brick-and-mortar data rooms, and allowing for fast data center–grade IT deployments at the edge. Packed with integrated redundant cooling and fire suppression, redundant power supply, and UPS, it allows a proper shutdown or workload move without opening the doors in case of an incident.

Digitize industrial environments cost-efficiently—This is done by providing enterprise data center functionality on the footprint of a standard IT rack based on Rittal's IT enclosure and rack expertise.

Avoid downtime with on-site support—It provides remote monitoring and management across locations.

The SEDC allows you to deploy standard IT solutions, anywhere literally, and workloads—SAP HANA®, Azure Stack, and others—to your preferred on-premises location on HPE infrastructure in the SEDC. This is especially relevant for the HPE hyperconverged and composable ecosystem:

HPE SimpliVity is a fast, simple, and efficient hyperconverged platform combining IT infrastructure and advanced data services into a single, integrated all-flash solution at a fraction of the cost of traditional offerings.

HPE Composable Infrastructure brings a public cloud–like experience to your business with fluid pools of compute, storage, and fabric resources within a single infrastructure.

HPE Synergy can support traditional and cloud-native applications in virtual machines, containers, or bare metal. It combines software-defined intelligence with a unified API that incorporates powerful tools from the HPE partner ecosystem.

Value proposition

Why HPE Sustainable Data Center Modernization?
Hewlett Packard Enterprise is at the forefront of many breakthrough ideas, pioneering the latest technologies' integration, and services incubation that makes us unique. We bring value to customers like you with innovative technologies and ways of designing, implementing, and running your data center.

HPE Sustainable Data Center Modernization (SDCM) mission is to guide you in your end-to-end data center modernization journey, from IT to network to facilities infrastructure, provide best-in-class solutions to assess the current state, define strategy, design and build future data centers, and reach operational intelligence supporting sustainability goals.

HPE SDCM practice opens the road to innovation, supporting your data center strategy from edge-to-cloud and empowering your vision for everything as a service with sustainability high on the agenda.

Armed with this unique mission, HPE SDCM can help you find answers to difficult questions about modernizing and optimizing your current data center frameworks. HPE SDCM has the ability to de-risk large complex solutions with our proven blueprints and standard solution packages. HPE SDCM is able to address the end-to-end transformation journey from IT to network to facilities across the entire data center lifecycle.

We take care of data center operations. We provide assessments for improving energy efficiency or validate and enhance resiliency levels. Furthermore, we create operational procedures, maintenance, and staffing plans. We establish state-of-the-art best practices to facilitate IT infrastructure refresh and convergence in your transformation journey, including lift and shift or UNIX®-to-Linux® migration. IT architecture as well as implementation services are part of this game. And finally, we help securely connect your data center premises to your enterprise network.

As an industry leader, HPE SDCM is ranked fifth of the top 60 largest data center engineering and engineering/architecture (EA) firms for 2022[1] (formerly known as HPE Data Center Technologies Services in the Survey), recognized for:

- Integrating IT network to facilities solutions: From brick to hybrid cloud with an end-to-end holistic approach
- Anticipation of IT trends as an essential part of our data center design blueprints
- Providing support over the entire data center lifecycle, from strategy to operation and maintenance
- Completing over 3000 projects in 40 countries
- Designing and commissioning over 7 million square meters (sqm) of data center projects that are up to 125 MW in size
- Designing over 40 LEED certified data centers
- Implementing dozens of data center infrastructure management (DCIM) / data center management system (DCMS) frameworks
- Conducting thousands of assessments and energy-efficiency studies

[1] "Top 60 Data Center Engineering + EA Firms for 2022," Building Design+Construction, 2022

Contact us at dcts@hpe.com

Learn more at

HPE.com/us/en/services/data-center-facilities-services.html

Visit **HPE GreenLake**

Chat now (sales)

a50008685ENW

Hewlett Packard Enterprise