

CXD Federal: Infrastructure & Interconnection On-Demand

CXD Federal Edition is a purpose-built on-demand interconnection and infrastructure platform that provides the security and control of colocation environments with cloud-like elasticity and scalability. CXD Federal offers agencies on-demand infrastructure to augment or replace agency-owned data center resources with the necessary security and control features to meet all requirements for the FedRAMP High Impact Level.

Deploy a Cloud-Smart Strategy

CXD Federal fulfills cloud-smart mandate requirements without compromising the control, cost, or compliance benefits of dedicated private infrastructure. Agencies can run all enterprise applications in a cloud-agile, subscription-based model while avoiding security and compliance issues common with Public Cloud.

How does it work?

CXD Federal offers a catalog of pre-configured servers, racked and cabled in Cyxtera-managed environments inside our data centers, directly connected to our exchange fabric, easily provisioned through our web-based portal or API. Each server is a separate isolated unit, dedicated to only a single customer.

Native IPMI-level access to the servers ensures complete control of the entire stack from the motherboard and up. Agencies choose the architecture, hypervisor, and/or OS that best fits their needs. Seamless Layer 2 network integration via a fiber port to the exchange fabric allows new servers to operate seamlessly as if they're part of the existing colocation environment. Colocating in a Cyxtera data center is not always required, as the servers can also be accessed remotely and operated as independent deployments. Colocation may or may not be required depending where your workload is deployed.

CXD Federal

Designed to meet a broad range of workload needs, our menu of on-demand compute options include HPE ProLiant servers, Nutanix hyperconverged infrastructure (HCI) software, and NVIDIA DGX A100 GPU Servers. A variety of configurations with varying numbers of cores, amount of RAM, type and number of storage drives are available from our catalog to tailor the solution to specific workload requirements.



Benefits

- Dedicated hardware allows agencies to easily conform security and compliance controls to existing processes and frameworks. Agency retains exclusive ownership over all of its data.
- Simplified subscription pricing provides cost control measures such as quotas (limits on what a user can provision) and leases (time limited provisioning of resources).
- The CXD Federal platform eliminates the need to plan and provision IT resources in the data center by providing on-demand IT infrastructure (e.g., compute, storage, LAN, and WAN).
- Reduces IT staff and administration costs.
- Reduces the risk and expense of testing and adopting new technologies.
- IaaS dynamic scalability simplifies capacity planning and can lower capacity costs.

Use Cases

- Accelerate adoption of "Cloud Smart" mandates and improve FITARA ratings. Enterprise Bare Metal combines the control, cost-savings, and security of dedicated colocation infrastructure with the provisioning speed, financial advantages, and agility of cloud.
- Leverage EBM Federal's software-programmable network, and on-demand infrastructure options to deploy FedRAMP compliant private clouds to augment or replace agency-owned data center resources.
- Enable digital transformation and hybrid IT initiatives with on-demand, self-service infrastructure provisioning, configuration management, and topology management, via the CXD customer portal and role-based access (OMB M-11-11 compliant).
- Build streamlined Disaster Recovery (DR) and Continuity of Operations (COOP) strategies to improve the ability of the agency to survive a disaster.