Automate and orchestrate deployment and management of your edge computing devices whether they are local or remote with Cisco UCS® Director and Cisco UCS Mini.

Most companies, whether small, medium sized, or large, spend large sums of money outsourcing the management and maintenance of remote edge devices such as desktops at branch offices, point-of-sale systems, and remote data collection points. What if you could deploy enterprise-class unified computing, networking, storage, and virtualization resources and then manage those network-attached systems, regardless of where they are located, from your data center with the exact same software you use to manage your Cisco UCS Integrated Infrastructure within your data center?

Start with Cisco UCS Mini

If you are a Cisco Unified Computing System™ (Cisco UCS) customer, you already know about infrastructure automation. Cisco UCS helps you manage growing administrative costs and rein in increasing complexity while reducing costs and increasing agility with:

- Automated, role- and policy-based provisioning of the system’s computing and connectivity resources: Cisco UCS Manager is model based, with Cisco UCS service profiles and service profile templates dictating server identity, personality, and configuration.
- Single, unified, self-aware and self-integrating system that eliminates the manual, time-consuming, and error-prone server configuration process: With these intelligent processes, Cisco UCS reduces administrative costs and shortens the time to value.
Reduce the Costs of Managing Remote- or Branch-Office Computing Devices with Cisco UCS Director and Cisco UCS Mini

- Simplified architecture with Cisco® SingleConnect technology, which provides a single way to connect to blade servers, rack servers, and virtual machines: Our approach uses less infrastructure per server, with fewer components to purchase, configure, maintain, power, and cool. The result is lower capital expenses and operating costs.
- The storage resources of your choice.

Cisco UCS Mini is a smaller form-factor version of Cisco UCS (Figure 1) that has been specifically built to support smaller environments such as remote-office and branch-office (ROBO) and retail environments, medium-sized businesses with little-to-no IT staff, remote edge computing, and smaller data center needs. Cisco UCS Mini delivers servers, storage, and 10 Gigabit networking in an easy-to-deploy, compact form factor. Cisco UCS Mini provides a total computing solution with the proven management simplicity of the award-winning Cisco UCS Manager.

You can start with two blades and easily scale to eight blades within the chassis and, if necessary, connect in Cisco UCS C-Series Rack Servers (Figure 2).

Lower Total Cost of Ownership

For a small configuration of two servers, the total cost of ownership (TCO) of the Cisco UCS Mini over three years offers you savings over a similar HP solution (HP DL360p Gen8):
- 38 percent savings on server and switch hardware costs and warranty costs
- 48 percent savings on power and cooling
- 43 percent savings for initial provisioning and ongoing server and network administration
- 100 percent savings on system management software licenses and warranty

Remote Management and Automation

Cisco UCS Manager uses a model-based approach to describe and implement a configuration by associating a logical model with a physical set of resources. A model, embodied as a Cisco UCS service profile, is a self-contained description of server identity, configuration, and connectivity.

Cisco UCS Central Software (Figure 3) extends the role- and policy-based management model of Cisco UCS Manager to deliver single, consistent management that spans multiple systems within a data center, across multiple facilities, and across locations worldwide. The combination of Cisco UCS Manager and Cisco UCS Central Software gives you policy consistency with your data center at the edge.
helping simplify operations and support and reduce remote staffing needs.

**Now Add Automation and Orchestration**

With Cisco UCS, we already simplify and automate infrastructure management more than any other vendor. You may already have purchased Cisco UCS as part of an integrated infrastructure that includes storage: for example, FlexPod, Virtual Computing Environment (VCE) coalition Vblock™ Systems, or EMC VSPEX. Now consider how you can improve your organization if you extend the management and orchestration scope to include upstream Layer 2 networking, storage configuration, both physical and virtual machine provisioning, and virtual desktop provisioning—both locally and remotely.

**Complete Bare-Metal Provisioning**

Imagine automated infrastructure management in which you configure your entire infrastructure—including networking, computing, storage, and virtualization resources—through a single pane. We can help you spend less time on administration and more time helping your business adapt to changing demands.

**Virtual Machine and Desktop Provisioning**

What if you could set up and provision virtual desktops or machines—including allocating storage and provisioning the operating system—from a service catalog through a self-service interface that your administrators can use? We can help you move one step closer to a more holistic implementation of virtualization, integrating with both Citrix XenDesktop and VMware Horizon (with View).

![Figure 2. Cisco UCS Mini Can Scale Out to Meet Your Business Needs](image-url)
Secure Multitenancy

What if you had automated tools to securely separate one application, client, or line of business from another, and to monitor resource consumption for capacity planning? We can help you run your IT department as a service provider would: keeping your customers, both near and far, up and running in a secure, on-demand environment, anywhere in the world.

Now you can deliver IT infrastructure through a single interface with point-and-click simplicity (Figure 4). A self-service portal lets administrators and trusted clients quickly request and receive the infrastructure they need, whether it is physical or virtual. Cisco UCS Director provides:

- Single-pane management
- Policy-based provisioning
- End-to-end process automation
- Lifecycle management

Cisco UCS Director exchanges Cisco UCS service profiles with Cisco UCS and Cisco UCS Central Software, using them as a language to communicate about desired server configurations and connectivity attributes. Cisco UCS Director enforces the broader policies that define the way you configure the rest of the infrastructure needed for your local and remote computing.

Expand Your Possibilities

Whether your company is small, medium sized, or large, take back the large sums of money you spend outsourcing the management and maintenance of remote edge devices.
Reduce the Costs of Managing Remote- or Branch-Office Computing Devices
With Cisco UCS Director and Cisco UCS Mini

For More Information

- Cisco UCS Mini: www.cisco.com/go/ucsmini
- Cisco UCS Integrated Infrastructure: www.cisco.com/go/ucsintegratedinfrastructure

such as desktops at branch offices, point-of-sale systems, and remote data collection points. With Cisco UCS Director and Cisco UCS Mini, you can deploy enterprise-class unified computing, networking, storage. Manage those network-attached systems consistently and securely from your data center, regardless of where they are located.