Cisco Data Center Efficiency Services

Increase Efficiency and Reduce Energy Consumption in Your Data Center

The Cisco Lifecycle Services Approach

Prepare
Develop a business case for a technology investment

Plan
Assess readiness to support proposed solution

Design
Create a detailed design to address business and technical requirements

Optimize
Achieve operational excellence through ongoing improvements

Operate
Maintain network health through day-to-day operations

Implement
Deploy new technology

The unique Cisco Lifecycle approach to services defines the requisite activities at each phase of the network lifecycle to help ensure service excellence. With a collaborative delivery methodology that joins the forces of Cisco, our skilled network of partners, and our customers, we achieve the best results.

Challenge

Rising energy prices and drastic increases in the density and power requirements of server and storage solutions have made energy management critical to efficient data center operation. IT managers must integrate power considerations with availability, scalability, and resource utilization requirements to cost-effectively deliver robust service levels.

Solution

Cisco® Data Center Efficiency Services help you better understand how your data center uses power so you can create a more efficient and cost-effective data center environment. The services analyze your data center power use, establish energy benchmarks across your facilities and infrastructure systems, and provide recommendations for data center improvements.

The Cisco Data Center Efficiency Services are delivered by Cisco engineers and consultants and Cisco ecosystem partners. They use best practices, network management standards, and proven methodologies to assess and benchmark the power usage of your network critical physical infrastructure and identify the architectural gaps that reduce overall efficiency. Cisco engineers and consultants have extensive expertise integrating Cisco products into customer networks to increase architectural efficiency and achieve operational excellence. Our data center ecosystem partners have specialized expertise to help you assess and benchmark the efficiency of the physical infrastructure of your data center.

Cisco and our partners work with your facilities and IT organizations to prioritize requirements and identify the changes you need to achieve a more energy-efficient operation and increase the availability and life of your network resources.

The Cisco Data Center Efficiency Services are:

- Cisco Data Center Assessment Service for Facilities, formerly known as Cisco Data Center Facilities Assessment Service
- Cisco Data Center Assessment Service for Energy Efficiency, formerly known as Cisco Data Center Energy Efficiency Assessment Service
- Cisco Data Center Architecture Assessment Service

Cisco Data Center Assessment Service for Facilities

Enterprises often upgrade their data center network components more often than their network infrastructure, which can lead to lower availability, utilization, and efficiency. The Cisco Data Center Assessment Service for Facilities evaluates the power, cooling, physical security, and operational practices of your physical data center infrastructure to help ensure that your new or updated components meet your reliability and capacity goals and can scale to meet your future requirements.

This assessment combines analyses of your operating practices and business strategies with physical infrastructure elements such as site location, power, cooling, fire protection, and security. With this information, you can implement changes that align your physical infrastructure with your network requirements to help increase operating efficiency and reduce expenses.

The service is delivered by experts who use best-practice methodologies and advanced tools to identify areas where your physical facilities may not effectively support your networked systems. The service includes recommendations that can help you improve critical infrastructure and extend the life of your data center.

Service activities include:

- Site assessment
- Power and cooling assessment
- Site security assessment
- Fire detection and suppression assessment
- Operational assessment
- Project management

Cisco Data Center Assessment Service for Energy Efficiency

IT managers often do not have the information they need to efficiently manage the energy requirements of today's high-density server and storage solutions, resulting in higher energy consumption and costs. The Cisco Data Center Assessment Service for Energy Efficiency analyzes your data center power and cooling systems using energy benchmarks. Implementing recommendations based on these benchmarks can help you increase the energy efficiency and utilization of your existing resources and efficiently upgrade and expand power and cooling when you add new equipment.

The service is delivered by experts in power and cooling efficiency. These experts use best-practice methodologies and advanced tools to identify problem areas in your infrastructure systems and facilities that can compromise availability, increase energy consumption, and reduce operating efficiencies.

Service activities include:

- Inspect physical infrastructure
- Benchmark energy efficiency
- Project efficiency impact
- Model air flow and temperature distribution
- Assess electrical efficiency

Cisco Data Center Architecture Assessment Service

Many IT organizations are examining power efficiency and implementing data center initiatives such as consolidation to increase the efficiency, scalability, and resiliency of their data centers. The success of these efforts depends on having a data center architecture in which all the components work together efficiently.

Improving architectural efficiency can reduce infrastructure and day-to-day management costs, enable faster deployment of new applications, and support unpredictable application growth. A more robust data center environment can also increase your resource availability, so you can deploy applications faster and enhance the return on your network investment.

As IT organizations look for ways to increase the cost-effectiveness and agility of their data centers, they need to understand the current state of their architecture and determine which changes can best help them achieve their business and IT goals. The Cisco Data Center Architecture Assessment Service analyzes your business and technical requirements and identifies opportunities to improve your data center architecture. Service deliverables include findings and recommendations that can help you implement a data center–wide strategy to optimize your existing environment or to build a new data center, as well as a long-term blueprint for your data center architecture. The service deliverables are based on best practices and proven methodologies to address the elements that contribute to inefficiency and operational risk in your data center.

The Cisco Data Center Architecture Assessment evaluates the following areas:

- Data center architecture
- Data center IP infrastructure
- Data center security

Optionally, the Cisco Data Center Architecture Assessment can also include storage area networking, file services, branch consolidation, application optimization, business continuance, virtualization, and a services-oriented architecture.

Benefits

Cisco Data Center Efficiency Services help you to improve the efficiency of your data center infrastructure by:

- Identifying ways to simplify your data center infrastructure so it is more accessible and more environmentally and operationally efficient
- Identifying the power and cooling infrastructure you need to support a highly reliable network
- Benchmarking and improving energy efficiency to lower costs and increase network availability
- Increasing the availability, capacity, and life of your data center resources

Why Cisco Services

Cisco Services make networks, applications, and the people who use them work better together.

Today, the network is a strategic platform in a world that demands better integration between people, information, and ideas. The network works better when services, together with products, create solutions aligned with business needs and opportunities.

The unique Cisco Lifecycle approach to services defines the requisite activities at each phase of the network lifecycle to help ensure service excellence. With a collaborative delivery methodology that joins the forces of Cisco, our skilled network of partners, and our customers, we achieve the best results.

Availability

Cisco Data Center Efficiency Assessment Services are widely available as a statement of work (SOW)–based service. Check with your local Cisco representative for availability in your area.

For More Information

For more information about the Cisco data center services that can help you gain the most return from your data center investment, visit www.cisco.com/go/dcservices or contact your Cisco service account manager.

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