The world's largest aerospace manufacturer of commercial jets and the leading defense contractor has two major business segments: commercial airplanes and Integrated Defense Systems, which includes space operations, communications satellites, imaging and flight services.

Aperture is used to optimize data center and facility space, standardize the process for change and publish reports over the intranet.

"Before implementing Aperture, we were using about 50 percent capacity in our computing labs. With Aperture, we've been able to plan growth and add new networks and power drops in an economical manner to increase our capacity utilization to over 90 percent." – Data Center Lab Manager

Aerospace and Defense

TYPE OF BUSINESS
Aerospace and Defense

NUMBER OF EMPLOYEES
150,000

REVENUE
$60 billion

DATA CENTER SIZE
Approximately 500,000 square feet (includes facility space)

PRODUCT USED
Aperture Suite

IDENTIFIED BENEFITS
• Centralized information portal with Web-based access

• Ability to integrate with other enterprise database sources

• Determine accurate chargeback information for space

• Platform to help in establishing change management processes

• Visual, intuitive and easy-to-use interface

• Scalable architecture

Business Challenge
Management lacked the data they required to accurately plan for data center expansion or consolidation. Information was kept in silos and the interdependencies between space, power and cooling as well as network port availability were difficult, if not impossible to ascertain. Further, there was no standardized methodology for managing installs, moves and decommissions of equipment. Initial research showed that space was underutilized, equipment locations were unknown and that there were internal conflicts related to space ownership.

The Aperture Solution
Understanding utilization and establishing a repeatable and consistent process for equipment installs and moves were two immediate needs of the organization. By implementing Aperture, they were able to document space and equipment across the organization. After getting the basics in place, next came reporting on equipment location, requirements (power and cooling), space utilization, space ownership, chargebacks and finally, the introduction of a consistent and structured process. Information is now published on their intranet and accessible via a Web browser through three levels of management. This sharing of information brought about visibility to the issues of capacity planning. The result was an increase in space use efficiency, reduction of underutilized space and consolidation and cost reductions in several areas.

⟳ Aperture®

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Results

Aperture helped provide the organization with a single source of information on the data center power and cooling and port connectivity. Unknowns were replaced with accurate, timely and visual information that was readily accessible and that provided information necessary to make informed decisions. Lab space utilization increased from 50 percent to over 90 percent. By using Aperture, excess capacity was quickly identified and subsequent consolidation projects resulted in a reduction of excess computing space by 16 percent. The process of data center installs, moves and changes is no longer ad hoc.

According to the company's Data Center Lab Manager, "Changes to [IT] equipment can no longer be made unless a request is first received by Aperture and device details, connectivity and power requirements are documented and approved."

The robust workflow capabilities are configured to the customer's unique approval process. Because of Aperture's visual and modeling capabilities, it has also been used extensively as an important design tool when planning or making changes to facility space and the network.

About Emerson

Emerson Network Power, a business of Emerson (NYSE:EMR), is the global leader in enabling Business- Critical Continuity™ from grid to chip for telecommunication networks, data centers, health care and industrial facilities. Emerson Network Power provides innovative solutions and expertise in areas including AC and DC power and precision cooling systems, embedded computing and power, integrated racks and enclosures, power switching and controls, infrastructure management, and connectivity. All solutions are supported globally by local Emerson Network Power service technicians. Aperture and Avocent solutions from Emerson Network Power simplify data center infrastructure management by maximizing computing capacity and lowering costs while enabling the data center to operate at peak performance. For more information, visit www.Aperture.com, www.Avocent.com or www.EmersonNetworkPower.com

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- Surge Protection

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