DOMODEDOVO MOSCOW AIRPORT

DOMODEDOVO AIRPORT | OBJECTIVE

Domodedovo Airport, a transport hub in near Moscow, Russia, is modernizing its IT infrastructure with NetApp solutions. With a modernized infrastructure, the facility can simplify data management, increase reliability and reduce maintenance costs.

Flying Into the Future with a Modern Data Infrastructure

CLIENT OUTCOMES | THE BOTTOM LINE: Room for Growth.
Domodedovo is ready to expand to meet Russian air and cargo travel demands with a new NetApp storage infrastructure and upgrade of data management capabilities.

2X Savings
Data center costs

Foundation for
Private Cloud

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Domodedovo is an international airport and one of the largest airports in Russia. Known by international codification as DME, it is one of the top 20 busiest airports in Europe. It is one of three international airports servicing the city of Moscow and the region. Its distance from the city center has meant growing use for national and international flights. Today, 45 airlines provide regular passenger and cargo transportation and serve approximately 200 destinations. The total passenger service reached 28.3 million people in 2019.

In 2018, according to the European branch of the International Council of Airports (ACI), Domodedovo entered the top three European air harbor leaders in terms of route network growth.

World Class Airport, World Class IT

In addition to arriving and departing flights and all of the ground operations required to support them, the airport provides many ancillary services for passengers and businesses: from parking to retail. These complex applications and systems generate huge volumes of data. It's data that must be made available, stored for historical and planning purposes,and shared with varied users and audiences. It requires efficient storage and management.

In the process of development, a large IT infrastructure was created at Domodedovo, which over time made it possible to quickly provide partners and tenants with the necessary IT resources and services. Domodedovo IT Services, the airport's IT department, is responsible for developing and managing these services.

Since the volume and complexity of the tasks have increased as the airport has grown, Domodedovo IT Services was tasked with modernizing the infrastructure. Any new infrastructure needed to be more economical in service to internal clients, consume less power and take up less space in the data center.

There are dozens of departments within Domodedovo that create and process a lot of data. Domodedovo IT Services provides these internal clients with resource allocation and management: an extremely labor-intensive process if done manually. The solution was an investment in the construction of an automated private cloud that could create efficiencies and economies of scale. The resulting modernization of IT infrastructure would provide a predictable, easily manageable and reliable scalable solution. It would also form a foundation that could further improve the quality of services.

Top-flight FAS and AFF Systems

Enterprises like the Domodedovo Airport require a cost-effective, reliable IT infrastructure that can be maintained inexpensively and easily scaled and developed for the future. The airport chose NetApp FAS9000 and AFF A700 to address immediate requirements and future growth.

The choice of the FAS9000-based segment was due to its load handling and allowance for various types of disks. The choice of all-flash AFF A700 arrays was made because it is designed to work with high-performance, mission critical applications, including main airport operations where lives are at stake.

In addition to a full replacement of the data center hardware, NetApp technology was installed for a new infrastructure segment as part of a private cloud dedicated to the airport and internal clients. In the future, the private cloud will allocate resources to end users by automating the main processes, such as standing up infra-structures and adding users, as well as reduce operating costs for system maintenance through cloud efficiencies.

During the migration, the performance of systems was never interrupted. All work was performed by specialists without stopping airport services and the risks of data loss or damage.

■ NetApp®

Aiming High

FAS9000 systems are easily clustered with NetApp All Flash FAS (AFF) arrays and integrated into the cloud. This allows the airport IT administrators to move data to where it is needed at the moment to ensure the optimal combination of performance, storage capacity and cost-effectiveness. The proven data and performance management features provide the flexibility of the FAS9000 systems, allowing you to adapt to changing business needs while ensuring that basic IT requirements are met.

Using NetApp storage enabled the airport to optimize the cost of ownership of IT infrastructure and reduce operating costs. In addition, the airport IT department was able to budget their expenses to meet the changing dynamics of the aviation market.

NetApp solutions implemented within the framework of the project have a significant margin of productivity for the future and increase the productivity of airport applications by up to ten times, and data storage efficiency by at least two times.

Thanks to modernization and the use of modern all-flash systems, more than 2x savings in the space occupied by equipment in the data center were achieved. Domodedovo will also be able to significantly reduce energy costs.

NetApp solutions have allowed Domodedovo to take the quality of its services to a new level and reduce maintenance costs, as well as create the potential for further development of the system. In the future, the airport will continue to optimize the cost of ownership of its IT

infrastructure through new NetApp products and solutions.

SOLUTION COMPONENTS
NETAPP PRODUCTS

| FAS9000 ▸ |
| AFF A700 ▸ |

PARTNER

| IBS Platformix |

LEARN MORE

https://www.netapp.com/us/products/storage-systems/hybrid-flash-array/fas.aspx

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✉ NETAPP.COM/CONTACT   +1 877 263 8277