



SUCCESS STORY
**Manufacturing/
Engineering**



ON Semiconductor®

ON SEMICONDUCTOR | PROBLEM SOLVED

ON Semiconductor standardized on NetApp® storage to improve availability and disaster recovery for its growing global manufacturing operations.

ON Semiconductor Keeps Manufacturing Running 24/7 with Nonstop Operations

Consolidation is reshaping the once fragmented semiconductor industry. Semiconductor companies are merging to leverage economies of scale and capture new markets. To support its strategy for growth through acquisition, ON Semiconductor depends on NetApp storage to standardize its rapidly expanding global infrastructure footprint. NetApp FAS and All Flash FAS systems enable the company to avoid costly downtime and accelerate performance for enterprise applications.

26%

improvement in
recovery time objectives

50%

improvement in
recovery point objectives

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 **NetApp®**

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Phil Colon
Senior Director of Global Infrastructure Services, ON Semiconductor

ON Semiconductor is a leading global semiconductor manufacturer whose semiconductors are used in almost every industry, including automotive, electronics, computers, and healthcare.

The company has grown quickly in recent years thanks to a series of strategic acquisitions. ON Semiconductor now has 125 manufacturing sites and 65 data centers around the world. For many years, IT was decentralized at the company—every site was responsible for its own IT. But as the company grew, it grappled with maintaining high availability across its global footprint.

Downtime of any sort can have a devastating impact on the business. Downtime means that machines aren’t working, people are idle, and product isn’t shipping. To provide 24/7 availability and improve data protection for all sites, ON Semiconductor embarked on a mission to consolidate its footprint and simplify its SAN environment.

A VISION FOR GLOBAL DATA PROTECTION

“We call our vision ‘The Shield,’” says Phil Colon, Senior Director of Global Infrastructure Services at ON Semiconductor. “The Shield is our vision for long-term high availability. The perimeter of The Shield is formed by our three major data centers and our many regional data centers. It’s all about seamlessly moving data among sites to sustain the business in the event of downtime.”

NetApp helped ON Semiconductor architect and implement a storage strategy to deliver on its Shield vision. It deployed an on-site NetApp resident to work side by side with ON Semiconductor engineers to manage the company’s storage infrastructure and continue to drive consolidation over time.

“NetApp is part of our team,” says Colon. “They’re trusted advisors. Our on-site resident is helping us quickly resolve incidents and develop our strategy. We are

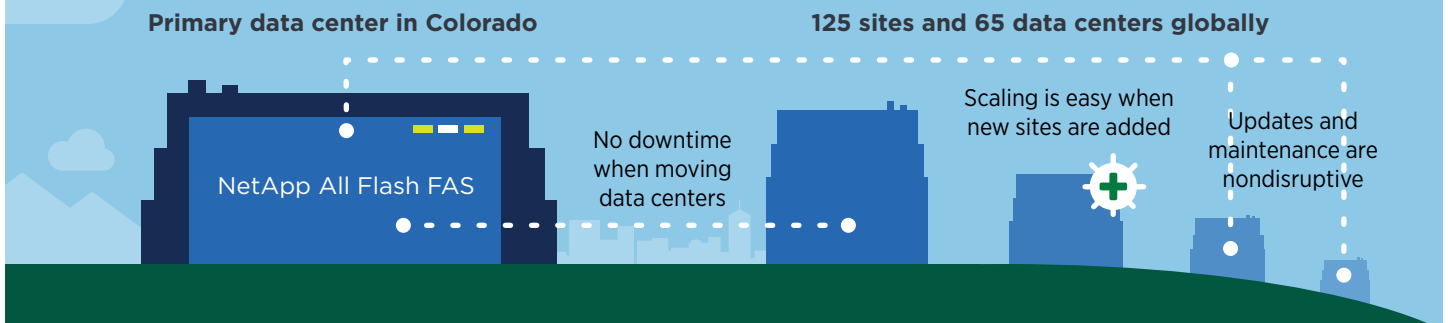
leveraging his expertise to get ahead of business requirements.”

BUILDING A SHIELD OUT OF A DATA FABRIC

With NetApp’s help, ON Semiconductor began standardizing its 125 global sites on NetApp FAS systems running NetApp ONTAP® software. It also added NetApp All Flash FAS at its primary data center in Colorado to support high performance and availability for critical enterprise applications, such as Oracle and IBM DataPower.

After All Flash FAS was implemented, application performance increased by an average of 50%, with speeds for individual applications increasing as much as 64%. “With All Flash FAS, we’re able to be quicker to market and quicker to address the needs of our customers,” says Colon. “Whether they’re developing new products or troubleshooting problems for customers, the performance they’re getting enables our users

ON SEMICONDUCTOR SIMPLIFIED THE DATA TRAFFIC BETWEEN SITES WITH NETAPP ONTAP



to be more productive. That makes them happy.”

NetApp ONTAP software enables nondisruptive operations during hardware and software updates and maintenance. And as the company adds new sites, it can scale its storage seamlessly without impacting ongoing operations. “With ONTAP we can give our factories the uptime they need to meet the demands of the business,” says Colon.

ON Semiconductor recently leveraged the built-in redundancy of ONTAP to move from one data center to another without downtime. “The move was so seamless using ONTAP that the business and executives didn’t even know we’d moved data centers until we wrote an article telling them about the move,” explains Colon. “The ability to move tremendous amounts of data from one data center to another with no interruption to the business was huge.”

Once in its new data center, ON Semiconductor was able to

consolidate 84 racks down to 24. The company also reduced costs by 30% due to savings and a reduction of 40% in power consumption.

“The data centers went from running on 209.17 KW to 124.75 KW,” says Colon. “Energy efficiency isn’t just key in the devices we manufacture, reducing our own global energy use is embedded into how we do business.”

ON Semiconductor’s Shield vision is now a robust disaster recovery plan, with NetApp SnapMirror® replication technology replicating data across geographies to ensure minimal downtime and data loss in the event of a disaster. With NetApp, ON Semiconductor has reduced recovery time objectives (RTO) by 26%—from 5 days to 3.5 days—and recovery point objectives (RPO) by 50%—from 48 to 24 hours.

“Our data fabric provides connectivity and replication across sites with failover for unplanned downtime,” adds Colon. “Rather than wait on traditional DR where you have to take almost a week to

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offload tapes, go to a site, and set up somewhere, we are using The Shield to protect the data and sustain uptime for the environment.”

DRIVING BUSINESS TRANSFORMATION THROUGH IT

The ability to deliver high performance, rapid scalability, and nonstop availability is part of Colon’s goal to become a service provider to the business. NetApp

is transforming the way that the business collaborates with IT to drive innovation and execute on business strategy.

“We are now being invited to more of the business strategy meetings and working together with them to help them grow or expand their sites,” says Colon. “They appreciate that we are enabling them to be highly productive and deliver high-quality products because

their critical infrastructure is always available.”

SOLUTION COMPONENTS

NETAPP PRODUCTS

- NetApp FAS systems
- NetApp All Flash FAS systems
- ONTAP
- SnapMirror

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