

Governing for utmost data protection and efficiency

State of Michigan consolidates data protection and storage, capturing \$4 million in cost savings and productivity gains



Government

United States

Business needs

For the State of Michigan, managing over 100 petabytes of data for 48,000 employees spread across 60 government offices is no easy task. Yet, IT achieved cost savings, speedier backup and recovery, and better productivity by consolidating data protection and storage.

Solutions at a glance

- [Dell EMC Data Domain](#)
- [Dell EMC Data Domain Cloud Tier](#)
- [Dell EMC Data Protection Software](#)
- [Dell EMC Storage](#)
- [VMware](#)

Business results

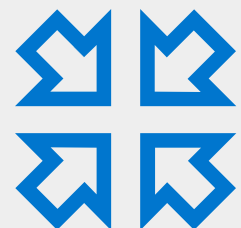
- Significantly faster backups
- Streamlined integration with VMware
- Improved productivity for database administrators
- Increased deduplication efficiency

\$4 million
in cost savings



140 PB of data compressed to

2PB



When it comes to massive scale, the State of Michigan's IT team is all over it. Protecting more than 100 petabytes of data for 48,000 employees serving nearly 10 million residents is a tall order. At the same time, IT is under pressure to reduce costs and comply with a raft of federal and state regulations. Meanwhile, information is growing quickly and includes diverse data sets relating to security standards, medical and social service benefits, criminal background, taxation and more.

In response, IT consolidated Michigan's data protection software and storage onto a Dell EMC infrastructure. Michigan uses Dell EMC Data Protection Software to back up data across multiple data centers and 60 remote offices to Dell EMC Data Domain appliances with replication to a remote site 50 miles away. IT also uses Dell EMC Data Protection Software for reporting and charging back data protection services to state agencies.

Dell EMC protects 2,500 VMware virtual machines and 500 servers. Michigan stores data on Dell EMC Isilon scale-out storage, XtremIO X2 All-Flash Array and Unity unified storage.

Massive cost savings, faster backups

Brad Settles, technical services administrative manager, State of Michigan, says, "Consolidating our data protection onto Dell EMC saved us \$4 million in licensing, maintenance and backup storage in only four years. We avoided raising our rates for backup and recovery services to internal clients while improving service levels."

In addition, Data Domain provides deduplication efficiency. For example, Data Domain compressed 140 petabytes to 2 petabytes of backup storage. Backups also are running faster.

"I love that Dell EMC is one big dedupe pool that motors along and replicates efficiently to our remote site without requiring much maintenance," states Settles. "Before, we were constantly juggling 10 smaller dedupe pools to ensure enough space

for backups. Dell EMC Data Protection covers our entire environment and provides a more elegant, faster and cheaper solution."

Broad solutions portfolio stays ahead of change

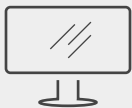
With a fast-growing virtualized infrastructure, Settles appreciates Dell EMC solutions' tight integration with VMware. For example, Michigan's database administrators can back up and snapshot virtualized SQL Server and Oracle databases faster and more easily.

Settles reflects, "Dell EMC's broad portfolio of solutions keeps pace with our changes. We plan to use Dell EMC Cloud Tier and Dell EMC Elastic Cloud Storage for long-term retention to help reduce costs. We're also eyeing the cloud-ready, virtual Data Domain and PowerProtect solutions. It's great to have so many choices.

"We have an excellent relationship with Dell EMC's sales and support teams across data protection, storage, cloud and VMware. We all speak the same language, and everyone coalesces around our challenges and goals."

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Brad Settles
Technical Services Administrative Manager
State of Michigan



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