



SUCCESS STORY
Public Sector



**ODENSE
KOMMUNE**

ODENSE KOMMUNE | PROBLEM SOLVED

Implement modern datacenter solving performance bottlenecks across primary and backup storage from a single vendor.

Odense Kommune future-ready using efficient all-flash storage

The Danish municipality of Odense implemented a future-proof NetApp datacenter to drive operations, improve efficiency, and consolidate both primary and backup storage into one system.

Another NetApp solution delivered by:



KONICA MINOLTA



**Consistent
Performance**

**Full-Stack
All-Flash
Storage**

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 **NetApp®**

“With NetApp we have achieved a 2:1 data reduction and thus realized high money savings.”

Niels Henrik Demant Rasmussen
Support and Infrastructure Manager, Odense Kommune

THE CUSTOMER PROFILE

Odense Kommune, i.e. the municipality of Odense in Danish, is the third largest city in Denmark. It is one of the oldest places in Denmark, established more than 1000 years ago. Its name was derived from “Odin” in Norse mythology. Situated in the South Denmark region, on the island of Funen, it has well over 200,000 inhabitants. The city offers many museums and even a zoo. The famous Danish author and poet Hans Christian Andersen was born in Odense, and a local airport was even named after him.

THE CHALLENGE

Odense Kommune was experiencing unexpected high I/O during peak working hours, which resulted in poor performance ratios and system instability for both end-users and operations because of slow system operation and the system not keeping up with demands. Data was stored using a classic, tiered approach across two different systems for primary and backup data. Going forward, the municipality was looking for an integrated system offering primary storage as well as backup storage in one solution.

THE SOLUTION

To fulfill its needs, Odense Kommune turned to NetApp and partner Konica Minolta to

implement two primary NetApp AFF8080 all-flash systems as well as two FAS2554 systems across two sites. The deployment was later complemented with a NetApp FAS2650 entry-level system for file server storage. According to Niels Henrik Demant Rasmussen, Support and Infrastructure Manager at Odense Kommune, the system “works really well – we’re really happy with it and it is easy to work with. It integrates well and is very easy to manage. All AFF and FAS systems are performing great.”

The migration and transitioning between systems went smoothly. As Niels Henrik states: “Our virtual environment, VMotion & SQL Servers were all migrated successfully, without any downtime or productivity impact.”

THE BUSINESS BENEFITS

NetApp systems are not just very efficient and fast, they are also very intelligent and feature-rich, offering Odense Kommune ample data insight and optimization features. The organization can avoid performance issues, meet SLAs, and save costs.

As the entire stack is now all-flash, Odense Kommune does not have to worry about tiering data across different storage tiers or media. Even the backup side is

based on is all-flash, which allows for easy management and much faster restores.

The ONTAP management software in NetApp systems comes with highly efficient data reduction technologies built-in, including deduplication, compression, and compaction. Niels Henrik confirms: “By optimizing on our data, we have achieved a 2:1 data reduction and thus realized high money savings – NetApp really lived up to its promise.” As of ONTAP 9.3 they can really see improvements in data efficiency across aggregates, and “it is getting better and better for each version,” according to Niels Henrik.

The NetApp FAS2650 system, which Odense Kommune purchased in addition to the core deployment, is used for storing uncompressible data, e.g. recordings from surveillance videos, where further data efficiency is not required or cannot be attained.

BUSINESS BENEFITS

- No more data tiering
- All-flash, consistently low-latency storage
- Improved efficiency and performance
- Single-vendor storage with integrated backup

Odense Kommune purchased the NetApp OnCommand Unified Manager suite with their storage deployment. Through this software suite the organization is now able to predict performance bottlenecks and anticipate data storage performance issues, thus unexpected high I/O has become a thing of the past. The IT organization has yielded very quick ROI through their investment in OnCommand Unified Manager.

THE FUTURE VISION

With the next-generation datacenter in-place, Odense Kommune is looking to employ NetApp's intelligent technologies even more to drive storage efficiency further. Going forward, the municipality is confident that all

GDPR requirements can be fulfilled. Niels Henrik concludes: "We are very happy with the support offered by both NetApp and Konica Minolta – any questions we might have are directly answered, regardless their complexity." IT staff at Odense Kommune like to try out things themselves, but they can always rely on Konica Minolta as their trusted advisor if needed.

SOLUTION COMPONENTS

NETAPP PRODUCTS

2× AFF8080 all-flash storage

2× FAS2554 HDD storage

1× FAS2650 HDD storage

ONTAP 9.4

SnapMirror, SnapVault, SnapCenter

OnCommand Unified Manager

Virtual Storage Console (VSC)

ENVIRONMENT

Microsoft SQL Server

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