

# MONDRIAAN FOR MENTAL HEALTH

## Leading mental health institute uses EMC for disaster recovery and data storage reliability



### ESSENTIALS

#### Challenge

- To meet stringent new government compliance requirements

#### Solution

- EMC CLARiiON CX4-240 x 2
- EMC Celerra NS 120
- EMC MirrorView
- EMC NetWorker
- VMware vSphere
- VMware View

#### Key benefits

- Minimize RTO—from one week to less than two days
- Flexible—incorporates legacy systems
- Meet compliance requirements—backup/automatic failover helps healthcare organizations meet legislative requirements
- Simplified data migration technologies
- Backed by the experience and knowledge of EMC

With over 50 clinics located in the south of the Netherlands, Mondriaan for Mental Health is a mental health institution focused on the treatment of psychological, psychiatric, and addiction problems for children, youths, adults, and the elderly. The Institute also provides forensic psychiatric treatment.

Serving the mental health needs of more than 10,000 people per year, and one of the largest employers in the region with more than 2,400 staff, Mondriaan for Mental Health is an accredited training institute for psychiatrists, psychologists, and nursing specialists. The Institute is also a center for research and has recently launched an Internet-enabled capability, allowing addicts to seek treatment via a 24/7 online facility.

The secure storage of patient data has always been critically important for the Institute. However, in 2005 changes in government legislation compelled Mondriaan for Mental Health to search for IT capabilities that would position it for the future.

### SECURE DATA STORAGE WITH AN EYE TO THE FUTURE

Roy Mikes, storage and virtualization architect for Mondriaan for Mental Health, explains how new government legislation led the Institute to search for innovative and reliable data storage and backup IT infrastructure.

“In 2005, a lot was happening in mental health care. The government had instituted changes regarding our legal and our own requirements for maintaining patient data. The Institute had an electronic patient database (EPD) upon which we stored critically important patient information. But we were using an older IT system then and couldn’t guarantee that we could meet compliance requirements. For instance, new government legislation required us to ensure that we would not lose more than 30 minutes of data in the event of a failover. Yet our legacy solution could not guarantee that.

“We required a new solution that would enable the Institute to meet new compliance requirements. We needed a reliable, high-availability data storage environment that incorporated automatic failover for our mission-critical applications and data. Also, because we were then operating with some HP infrastructure and VMware®, we required a solution that would allow us to incorporate those legacy systems within a single new IT environment.”

### EMC FOR RELIABILITY

Mikes knew of EMC and its reputation for proven, reliable IT infrastructure and deep knowledge. Starting in 2005, Mikes and the Institute began an IT infrastructure upgrade program to ensure that the Institute would meet new government legislation while also positioning it for future requirements. The core of that program was EMC® products and expertise.

Today, the Institute possesses comprehensive EMC-driven IT infrastructure. EMC CLARiiON® CX4-240 arrays have been deployed to store mission-critical applications including patient EPD applications and data, Microsoft Exchange, SharePoint, and related data. A secondary CLARiiON located in the Institute's disaster recovery data center automatically replicates data using EMC MirrorView™. Automatic failover capabilities minimize DR windows in the event of any disaster.

The EMC Celerra® NS-120 is used primarily for archiving purposes, while also providing backup solutions infrastructure.

VMware helps the Institute maximize data storage infrastructure utilization, while providing quick Virtual Machine rollout to meet new requirements.

“With EMC and its automatic failover capabilities, we now meet stringent government compliance requirements. Today, we can guarantee the reliability and high availability of patient and other critical data. No other product can do this within a virtualized environment.”

Roy Mikes  
Storage and virtualization architect  
Mondriaan for Mental Health

Mikes is impressed with the capabilities of his EMC infrastructure. “When we first began upgrades using EMC, it was the only company then that could incorporate our HP infrastructure,” explains Mikes. “Over the years, we have continued to upgrade our EMC solution as we require it.

“With EMC, and its automatic failover capabilities, we now meet stringent government compliance requirements. In the old days, and if a disaster struck, our RTO could take us a week. But today, with EMC, that RTO is now a maximum of two days. Today, we can guarantee the reliability and high availability of patient and other critical data. No other product can do this within a virtualized environment.”

Mikes is also very happy with the ease of use of his EMC solutions. “We work with local EMC partner Telindus-Isit and they provide us with exceptional support. But EMC makes using the various systems easy. For instance, when we recently upgraded our CLARiiON arrays, we had to migrate about 80 TB of data. I was able to do this almost all by myself by leaning on the technology. EMC made it simple.”

## EMC AND VMWARE: POSITIONING FOR A FUTURE OF CLOUD

Mikes also explains how EMC and VMware position the Institute for a future of cloud.

“Throughout the Netherlands, various health organizations are positioning themselves for a future of collaboration. We have been using EMC and VMware for over six years at this point. We were early birds back then, and have gained a great deal of knowledge and experience. We're now ready for a future of private cloud. We'll be able to reach out successfully in order to collaborate with others.

“EMC and VMware work closely together and this is a big plus for me. We know that both companies are at the forefront of cloud technology. Because we use them tactically, we know that we are positioned for the future.”

Mikes absolutely recommends EMC as well as VMware. “The original trick that we were trying to achieve was the integration between EMC, VMware, and our legacy infrastructure, all within a single IT environment. No other vendor could implement that trick successfully. EMC has not only helped us to achieve our compliance objectives, but they have also enabled us to prepare for a future of cloud. Together with the reliability of their products and their deep knowledge, I can highly recommend them.”

### CONTACT US

To learn more about how EMC products, services, and solutions can help solve your business and IT challenges, contact your local representative or authorized reseller—or visit us at [www.EMC.com](http://www.EMC.com).

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