



## Franciscus Hospital Achieved Fast VDI Performance on Traditional Storage Using Atlantis ILIO

### Extended Return on Investment of Existing Storage

Franciscus Hospital is a NIAZ (Netherlands Institute for Accreditation of Hospitals) quality certified hospital that provides all hospital services for the West Brabant region in the Netherlands. The hospital hosts 472 licensed beds and employs over 130 doctors, 1500 employees, and 150 volunteers. The medical organization has fully implemented an integrated ChipSoft Elektronisch Patiënten Dossier (Electronic Patient Record System or EPD) that operates in a 100% virtual desktop environment - 1600 virtual desktops deployed with 800 used concurrently on two datacenter locations in order to ensure 100% uptime.

### Challenges at Franciscus Hospital

Franciscus Hospital faced a number of competing challenges as part of the planned transition to VDI. First, was ensuring the availability and compatibility of key systems such as the Electronic Patient Record System. This critical system stored all patient care plans, medical records and notes, and was used by most of the hospital staff. Second, Franciscus Hospital migrated from Windows XP to Windows 7, which required double the storage sizing. Third, they needed to keep costs to a minimum. Their plan included reusing their existing physical PCs purchased since 2004 as thin clients to connect into the virtual desktop environment. Finally and most important to the hospital, the virtual desktops had to perform better than their previous physical PCs. Short logon times were particularly important as each medical professional needed to log in many times a day throughout various locations. Any delay in logging in would detract from the level of care provided.

IT management was concerned as to how to overcome these challenges and deliver a successful VDI solution under the budget constraints. Hospital personnel were focused on the end result -- a desktop experience which included their key applications and performed better than what they currently had with physical PCs. Any degradation in performance would prevent adoption of the solution and mean failure for the project.

#### INDUSTRY: HEALTHCARE

#### Business Drivers

- Increase staff efficiency and mobility
- Improve performance and end experience
- Decrease logon time for desktop sessions
- Rollout of new business applications

#### Challenges

- Limited budget
- Poor end user experience
- Windows 7 migration
- Desire to reuse existing client desktops
- 200 unique applications
- Disaster recovery requirements

#### Atlantis ILIO Benefits

- Reduced CAPEX and OPEX
- Improved user experience - Fast logon times
- Utilized hospital standard hardware

#### Solution Benefits

- **Performance** - Very fast employee logons
- **Risk Mitigation** - Optimized hospital standard architecture
- **Cost** - Avoided deploying new expensive storage

#### Solution Components

- Atlantis ILIO 4.1
- Citrix XenDesktop 5.6
- EMC VNX 5700 with 50 TB capacity
- VMware ESX 5.1
- 24x HP Servers w. 384GB RAM in two datacenters
- Existing HP Personal Computers

# Franciscus Hospital



The most important detail of user experience for the medical staff at Franciscus, which also is the hot button of any VDI deployment, is fast logon times into the desktop sessions. The hospital personnel change access points frequently throughout the day, and the ability to logon to the desktop session without wait times allows the personnel to be efficient in their jobs.

— JAN VAN TILLO  
Information Advisor  
Franciscus Hospital



Atlantis ILIO allowed us to migrate to Windows 7 as the desktop platform, provided super-fast logon times, and a very smooth roll-out of the desktops to our employees due to the training with the new environment. Our employees initially were very content, and still are.

— JAN VAN TILLO  
Information Advisor  
Franciscus Hospital



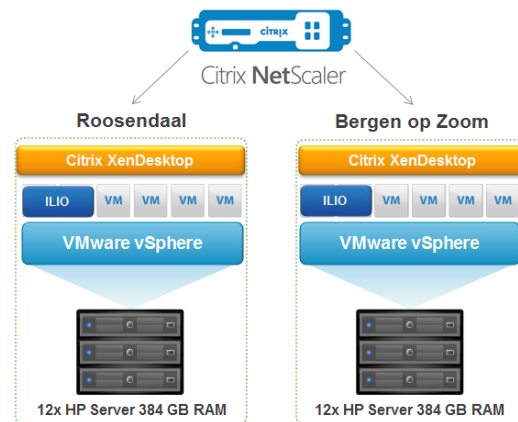
## Franciscus Hospital solves their VDI challenges using Atlantis ILIO™

Franciscus Hospital adopted a stateless VDI solution which included Atlantis ILIO. Atlantis ILIO is a 100% software solution that reduces the risk in virtual desktop environments by reducing storage requirements by up to 95% while delivering better-than-PC performance regardless of the underlying storage used. The hospital phased the rollout to initially include just the administration department, coinciding with a Microsoft Dynamics AX migration. User feedback from that first phase was so positive that the entire hospital was migrated after just 19 weeks. Even executives had VDI as their primary desktops. The final solution included more than 200 applications and enabled the hospital to run 800 concurrent sessions for 1600 desktops in total. One of the most compelling advantages of the solution was its ability to meet and exceed the performance requirements. The hospital could utilize their existing hardware and software platforms, thus eliminating the complexity associated with the introduction of any architectural changes. Ultimately, the utilization of Atlantis ILIO In-Memory Storage™ technology to optimize storage, provided the fastest performance possible to each desktop.

Hospital personnel were able to change locations frequently, including their usage of the Computers-on- Wheels (COW) stations, and were very happy with the logon time and performance of the new VDI environment with Windows 7.

## The Architecture: Citrix XenDesktop and Atlantis ILIO™

Franciscus Hospital utilized two datacenters to service the environment. The deployment hardware consisted of HP Servers running Citrix XenDesktop virtual desktop pools on the VMware vSphere hypervisor. The hospital repurposed existing 10 year old HP PCs as the VDI thin client devices. The datacenters were configured as an active-active pair, with each datacenter provisioned with sufficient virtual desktop resources to sustain a full site failure. In case of a disaster recovery event, Franciscus Hospital used Citrix Netscalers to load balance virtual desktop connections between the hospital's two datacenters.



# Franciscus Hospital



[Atlantis ILIO] is the fastest solution on the market - starting applications in the VDI environment is faster than at home, and the VDI sessions automatically get 'refreshed' after 4 hours so we never use unneeded capacity in our IT environment.

- JAN VAN TILLO  
Information Advisor  
Franciscus Hospital



## The Atlantis ILIO solution

Atlantis ILIO is a 100% software solution compatible with any VDI broker, any hardware, and any storage system, simplifying traditional approaches to deploying storage in a VDI environment. For Franciscus Hospital, Atlantis ILIO represented the key component of the overall VDI solution and included the following benefits:

- 1. Risk mitigation** - The entire deployment utilized the hospital's standard hardware configurations without introducing any new architectural changes. Atlantis ILIO's storage optimization enabled Franciscus Hospital to avoid investing in faster and more expensive storage. Through deployment automation, the hospital was able to scale to 800 desktops in just a few days.
- 2. Performance** - With faster-than-PC performance, near-instant application launch, and super-fast logon times, the end user experience was improved significantly. Franciscus Hospital determined Atlantis ILIO optimization was able to work their existing infrastructure to deliver the fastest VDI implementation available.
- 3. Cost** - With software from Atlantis Computing, Franciscus Hospital could avoid investing in new expensive high performance storage. The improved performance and scalability resulted significant CAPEX and OPEX savings.



### Solution Partner

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