

## Royal Orthopaedic Hospital



# ATLANTIS HELPS HOSPITAL TO IMPROVE THE EFFICIENCY OF PATIENT SERVICES



One of the largest orthopaedic units in Europe has deployed a **software-defined storage solution from Atlantis** to help it upgrade its desktop services. Now surgeons, doctors and nurses enjoy far faster desktop login times and can devote more of their expert time to caring for patients.

The Royal Orthopaedic Hospital NHS Trust (ROH) is a specialist hospital offering planned orthopaedic surgery in the UK. With high levels of demand for its services, its surgeons, doctors and nurses need to be able to work very efficiently to provide growing numbers of patients with relief from painful conditions as quickly and compassionately as possible. The hospital decided to modernise its IT facilities and introduce a virtual desktop infrastructure (VDI) to support all of its 1000 clinical and administrative employees. It hoped that this strategy would accelerate access to key medical applications and facilitate improvements in patient services.

### A SCALABLE STORAGE SOLUTION

The decision to adopt VDI was precipitated by a significant challenge in the hospital's existing data storage infrastructure. The ROH had three separate storage devices, offering a total of 10 terabytes of storage, but they were incredibly time-consuming to manage and, critically, fast running out of capacity.

To address this challenge, the ROH selected a software-defined storage system from Atlantis. ROH installed the Atlantis software as part of a comprehensive new VDI project, providing it with ample desktop storage which can be easily expanded in the future.

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*Mark Bemrose, Network Manager, Royal Orthopaedic Hospital*

### CHALLENGES

- Reduce login times to enable staff to work more efficiently
- Resolve the shortage of storage capacity
- Minimise the time spent in the IT department managing storage
- Realise the cost savings of a virtual desktop infrastructure strategy

### SOLUTION

- Atlantis software-defined storage software

### BENEFITS

- Fast, scalable storage delivering higher performance and lower costs
- Single storage platform supports virtual desktops, remote access and BYOD
- Up to 92.5% reduction in desktop login times, creating estimated savings of £91,000 p.a.
- As much as 30 minutes a day freed up for clinicians to spend with patients
- One day per week saved in IT department through simplified storage management

## HIGH PERFORMANCE STORAGE

One of the things that the hospital likes most about the Atlantis software is its ability to integrate and operate in RAM, which ensures high-speed performance of the virtual desktops. "Other solutions that we considered relied on PCMI cards, which are not only slower but also have a reputation for having a high failure rate," explains Mark Bemrose, network manager at the ROH. "Atlantis' de-dupe and compression functionality also means that we need less storage capacity for our virtualised desktops than was anticipated with solutions from other vendors."

The Atlantis solution underpins all of the hospital's virtualised desktops, delivered to 700 new thin clients, 100 laptops and 70 tablets. It also supports the ROH's new remote access and 'bring your own device' (BYOD) strategies, allowing users to access applications and files rapidly from their home computers and personal mobile devices. When users log in, at any time, from any device, in any place, they see exactly the same desktop that they saw previously, which helps to improve their productivity.

## SIMPLIFIED STORAGE MANAGEMENT

The deployment of a software-defined storage solution from Atlantis has made a considerable difference to the productivity of the IT team. "In the past, we spent a lot of time just fire-fighting and maintaining old desktops," recalls Bemrose. "Atlantis enables us to administer our desktop storage through one simple management console. It gives us plenty of storage capacity for our virtualised desktops and is far more reliable. I estimate that we save a day of time a week in the IT team, by no longer having to worry about storage."

## EFFICIENT DELIVERY OF PATIENT SERVICES

Previously, it used to take employees 15-20 minutes to boot up their computers and log in. The use of Atlantis software, as part of the VDI, has helped to reduce this process to just 90 seconds. This time saving of up to 92.5% is particularly beneficial for the hospital's clinicians who log in and out several times a day from different locations, as they move between operating theatres, offices, clinics and wards. "Clinicians, who log on two or three times a day from different desktops, can gain half an hour or more a day," Bemrose says. "This time-saving enables them to work far more efficiently and spend more time with patients."

## ANTICIPATED COST SAVINGS

The hospital made cost savings calculations as part of its business case for VDI. Bemrose says: "Based on a very conservative estimate of 500 employees saving just 3.5 minutes on their logins per working day, we calculated that the hospital would free up 875 days a year. This equates to a possible cost saving of £91,000 per year from adopting VDI instead of upgrading our PC based desktop IT infrastructure." Given that some users are in fact saving up to 18.5 minutes per log in, rather than just 3.5 minutes, the actual savings achieved by the hospital could be much greater than anticipated.



## VIRTUALISED IT ENVIRONMENT

- VMware Horizon View
- Cisco UCS Servers
- Atlantis diskless storage solution (600 concurrent licences)
- 10ZiG thin clients
- Dell laptops
- Apple iPad tablets
- Windows 7
- Key Medical applications iPM and PAS
- GE PACS imaging
- Ormis theatre management
- OnKos Oncology system
- Personal mobile devices

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*Mark Bemrose,  
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