

# INSTITUT MUTUALISTE MONTsouris

Open to all, the IMM is a private, not-for-profit hospital with 420 beds that is part of the public hospital sector. IMM treats many medical and surgical pathologies. It employs 1,500 members of staff and boasts highly specialist teams who support numerous out-patients and hospitalised patients. Also in these premises, the experimentation and applied research centre, IMM Recherche, acts as an original driving force for innovation and the transfer of technologies - leading the way in research and training.



## EXPECTED BENEFITS

- Continuity of service 24/7
- Simple administration
- Reduction in backup windows

## IT management, the nerve centre of the hospital

### Quickly convinced

All it took was a simple demonstration to convince Mr Stuardi, Chief Information Officer, of the efficiency and ease of use of NEC's fault tolerant server. The unique design of the NEC fault tolerant server along with the sturdiness and reliability of the solution immediately won him over.

*"This is exactly what we need,"* responded Mr Stuardi during the meeting.



### Performance and availability: crucial qualities!

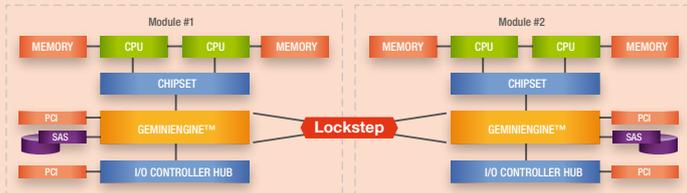
For the last couple of years, IMM's infrastructure had been based on a cluster that was difficult to administer, a network that had become too slow and a backup tool that could no longer cope with the volume to be backed up. IT management was looking for a solution that would improve data transfer time, increase the availability rate and reduce the backup window to less than 24 hours. *"Fibre optics was essential for us, as was the simplification of our system administration."* Luis Stuardi, IMM's CIO

# A SOLUTION THAT IS SIMPLE TO ADMINSTRATE WITH HIGH AVAILABILITY

*"In our line of work a couple of minutes of disruption can be fatal to our patients. Its high availability and operational simplicity mean that the NEC fault tolerant server perfectly fits our constraints."*

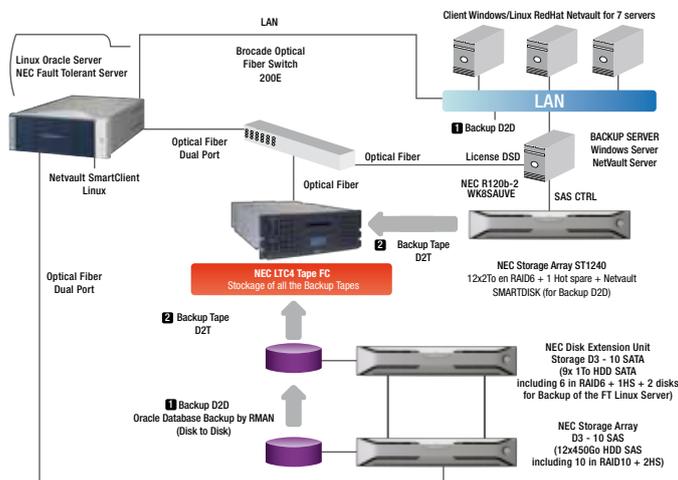
Luis Stuardi, IMM's CIO

## For increased reliability and better availability



The NEC Fault Tolerant server is designed in such a way that it is able to ensure high availability without any additions to its structure. The modular architecture, the chipset and the redundant CPU/ES modules mean that even higher service availability is guaranteed. The internal hard disks and power supplies are in separate modules, and a chipset controls their redundant function. It integrates administration, surveillance and remote monitoring tools.

## Architecture of the solution provided



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## Multiple benefits for IMM

### Continuity of service

*"Since we installed the server 10 months ago we haven't had to stop it or reboot it once. The solution is entirely stable."*

Luis Stuardi, IMM's CIO

### Performance

The performances of the business applications installed on the NEC Fault Tolerant server today give users complete satisfaction. Service providers also appreciate the response time of their applications in this environment.

### Very short deployment time

The deployment was carried out in two 2-day phases. The NEC Fault Tolerant server was installed first, then the back up infrastructure.

### Ease of administration

The administration of NEC's Fault Tolerant server is very easy, just like a standard server. It does not require any particular skills. The CIO at IMM has therefore decreased his administration workload. 24/7 monitoring is carried out remotely by NEC's technical department via their remote monitoring service.

### Reduction in the backup window

In the past, it took 27 hours to backup data. Thanks to fibre optics and the installation of the NEC LTO4 FC library run by Bakbone's Netvault solution, the backup window has been reduced to 20 hours. Further optimisations are planned for the future.

### Reductions in licence costs

As the NEC Fault Tolerant server is considered as a single server, the additional costs of cluster mode licences for specific software are avoided.

## Prospects

### Maximum security

Now that the solution is fully operational, with performances and availability up and running, IMM's CIO is considering deploying a disaster recovery and transactions security solution for its Oracle database. A second NEC Fault Tolerant server is planned and the whole system is to be monitored by the NEC ExpressCluster software solution.

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