



Miria provides petabyte-scale life insurance for the University of Lausanne

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"UNIL wanted a protection for its unstructured data stored on two replicated Isilon NAS. Life insurance for our data."

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Pascal Jacot-Guillarmod, Project Director on UNIL's steering committee

THE UNIVERSITY

The University of Lausanne (UNIL) comprises 7 faculties on a single campus on the shore of Lake Geneva. Much of the University's data storage requirements are generated by the medicine and biology faculties – for example DNA sequencing tests or the results of microscope samples which generate tens of millions of relatively small files.

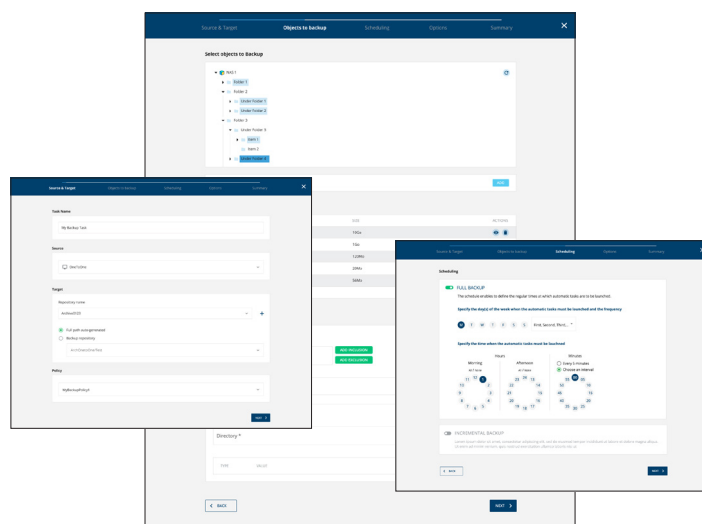
- **Country:** Switzerland
- **Specialities:** Medicine-biology / social sciences / arts / theology / geosciences / law / business (HEC)
- **Key figures:** 15,000 students, 5,000 employees.

THE TECHNICAL BACKGROUND

- Replicated Isilon NAS
- 300 million unstructured files
- 5% daily changes
- Workstations and endpoints multi-OS, CIFS & NFS
- Backup to ECS – Elastic Cloud Storage (EMC)

THE CHALLENGES

- Perform a full monthly backup (legal obligation)
- Perform a daily incremental backup within the designated backup window
- Guarantee data preservation even if a cryptovirus hits
- Be able to restore to a different storage platform



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"Thanks to Atempo, our NFS and CIFS file systems are working in perfect harmony with S3-type storage."

"We have backed up our unstructured NAS data sets based on multi-OS sources while respecting ACLs."

Michel Ruffieux, Storage and Backup Manager, UNIL

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LA SOLUTION

- **Atempo Miria Backup**
- Features: FastScan, Incremental Forever backup to S3-type storage

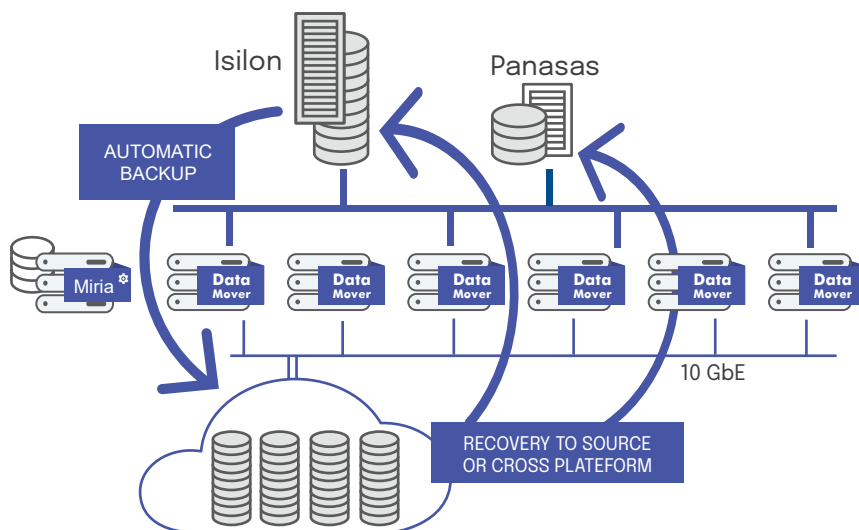
BEYOND TRADITIONAL NDMP BACKUPS

Even if the time between NDMP backups can provide a solution in the event of an infection or an attack on the primary or secondary storage - or both - there are nevertheless serious **security** limitations with this approach.

An alternative and more flexible solution had become necessary; one which verified the integrity of the stored volumes. In this context, **Atempo's solution** was implemented for **Isilon NAS backups without using the NDMP protocol**.

With Atempo's solution, UNIL can today rely on **rapid, reliable** and **efficient backup** of their very large data sets. They also have a genuine option to extend this technology to cover future archiving requirements.

ARCHITECTURE



BUSINESS BENEFITS



Rapid, reliable and efficient backup



Total recovery possible



Restorations possible from multiple-storages

Consult the Datasheet



<https://links.atempo.com/DM-datasheet>

Contact an Atempo expert



<https://links.atempo.com/DM-contact-us>

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Atempo Headquarters | 23, Avenue Carnot, 91300 Massy, France | Tel: +33 164 868 300 | info@atempo.com

THE BENEFITS

- The backup rapidly detects files that are created, deleted and modified on the storage,
- No full backup is required - the incremental forever limits the number of instances kept for each file
- Recovery at file or batch level,
- Total recovery possible in the event of a serious incident
- Restorations possible from multiple-storages

