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DAX OMERO Archive

Challenge

The **Open Microscope Environment Remote Objects (OMERO)** is a modern server and client software for visualising, managing, and annotating microscope images and metadata, and for working with experimental protocols.

The **OMERO server** is the component that manages the actual storage of images as well as the database containing the metadata describing the images.

The objective of this platform is to provide a **central, shared storage environment for microscopy labs**.

This enables its users to store and share data from a large variety of different microscopes, not dedicated to specific vendor formats.

In microscopy environments, data is generated by experiments.

Hence new data, requiring new storage space, is generated each day as part of the **primary business process** of the lab environment.

After generation, the data is processed for analysis and in fact, when the experiment is finished, most of the data will no longer be used.

Solution

At this point the data should be either deleted from the storage or it should be archived for future reference.

As resolutions are increasing, the amount of data generated is also vastly increasing. The ideal archive solution provides **archiving of all image data** as well as **all meta data** involved, as the plain image files themselves represent just a part of the experiment.

The **DAX File & Folder Archive** solution simply extends any OMERO server with an **infinite archive**, operating completely behind the scenes. OMERO users are able to access the archive by means of a simple and intuitive HTML interface.

They can use standard **web browsers** and simply surf to the archive web page which lists the active projects as well as all archived projects.

Users simply invoke archive or restore commands by clicking on the right links. When a user archives a project, all metadata of the specific project is copied **from the OMERO-database to the OMERO-archive-database** and will not be visible anymore in the OMERO database.

When a project is restored, **all image and pixel data** are restored on the original location on the server. In addition all **describing metadata** is made available again in the OMERO database.

Benefits

- Simple user interface gives individual users full control over archiving and restore of their own projects. Users are assured that their data is archived and can't be accidentally removed.
- Simple server-centric extension requires no change on workflow policies or adaptation of OMERO client software.
- Cleans the OMERO database from inactive projects.
- Saves valuable hard disk storage, as inactive projects will reside in the archive.
- Reduces the back-up window as all fixed content needs to be archived only once and is eliminated from the system back-up.
- Back-up and archive can be integrated into the same hardware platform.

Contact for more information:

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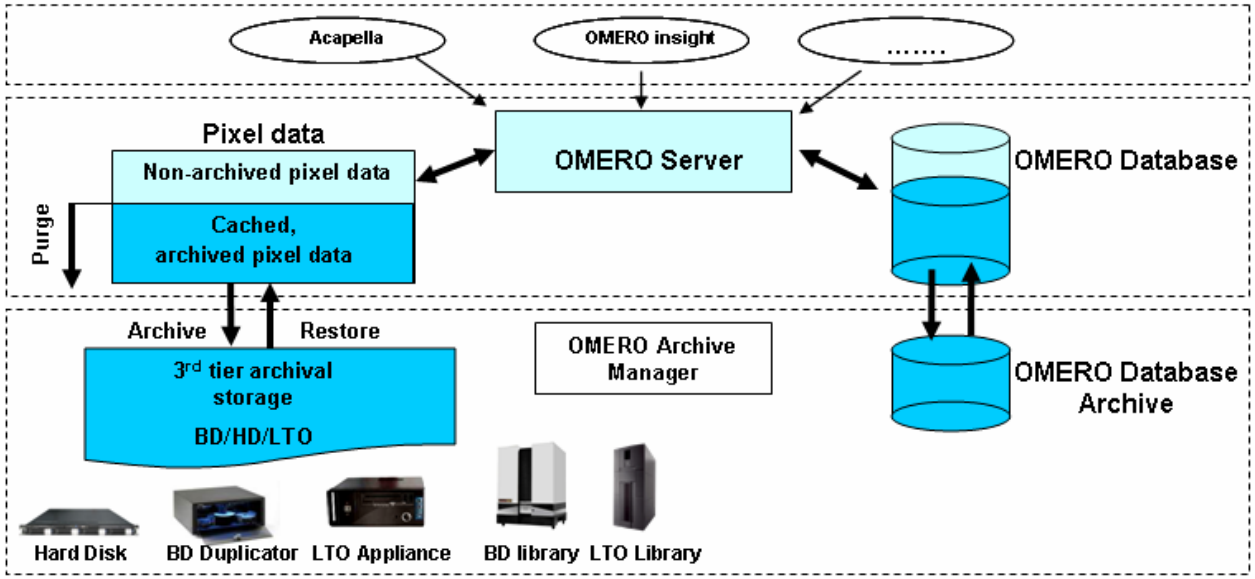
Secure the Future of your History



All clients simply access the OMERO server.

The OMERO server manages all the data as usual. Incoming data is archived using a preset policy, i.e. archiving all new datasets created after 24 hours. In order to free up space or clean the database, projects are archived by purging them from the on-line storage.

In order to restore archived projects, clients go to the web interface and invoke a restore of the project. This restores the pixel data to the original location and restores the metadata in the OMERO database.

The archive back-end is a simple extension to the storage environment and can be created by several hardware configurations such as secondary hard disks repositories, LTO tape libraries and/or Blu-ray archive solutions.

**OMERO Server: Version 3 or higher.*

	Entry	Mid-Range	Enterprise
ARCHIVE	• On-line hard disk archive combined with an infinite off-line archive on LTO or Blu-ray discs. • Recently archived projects are immediately available in the hard disk archive, old projects can be restored by means of a specific procedure	• 40 TB near-line archive on LTO or Blu-ray discs. • Projects are restored fully automatically from the tape or Blu-ray library.	• 350 TB near-line archive on LTO. • Fully automatic enterprise solution.
KEY BENEFITS	• Budget solution, infinitely scalable	• True automatic archive solution providing large amounts of archival space. • Provides a compelling price/performance at a departmental budgetary level.	• Offers 'unlimited' fully automatic archive to all users. • Provides true enterprise level storage management with an excellent ROI.

Register at http://www.daxarchiving.com/en/contact/omero-user.html
to keep up- to-date with all new developments of the DAX OMERO Archive Solution