SUPERIOR SOLUTION

centralONE® science - The Sientific & Research *Big* Data Management Solution

SAVE THE DATE
Meet us at SC23

Thomas Mack, CEO
Thomas Ultsch, CEO

Fort Myers - August 2023

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Benefits for you

faster better cheaper

AI optimization

Cost saving

Multi File System Support
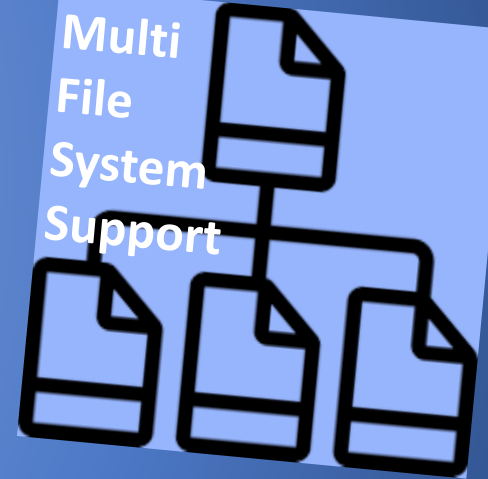
Bridging the cloud
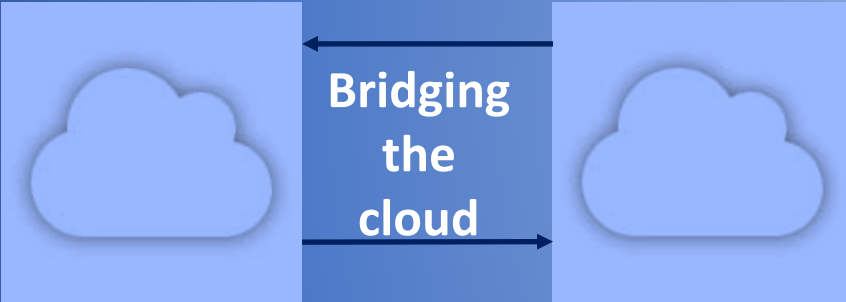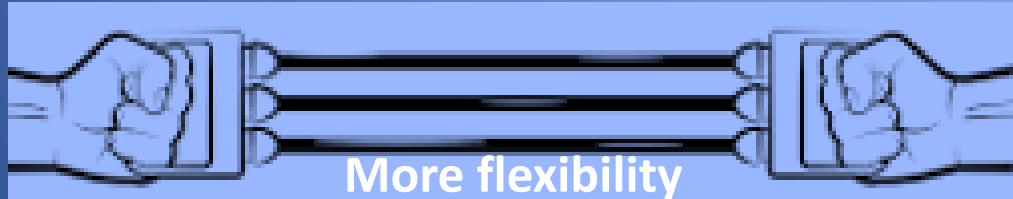
More flexibility

Time saving

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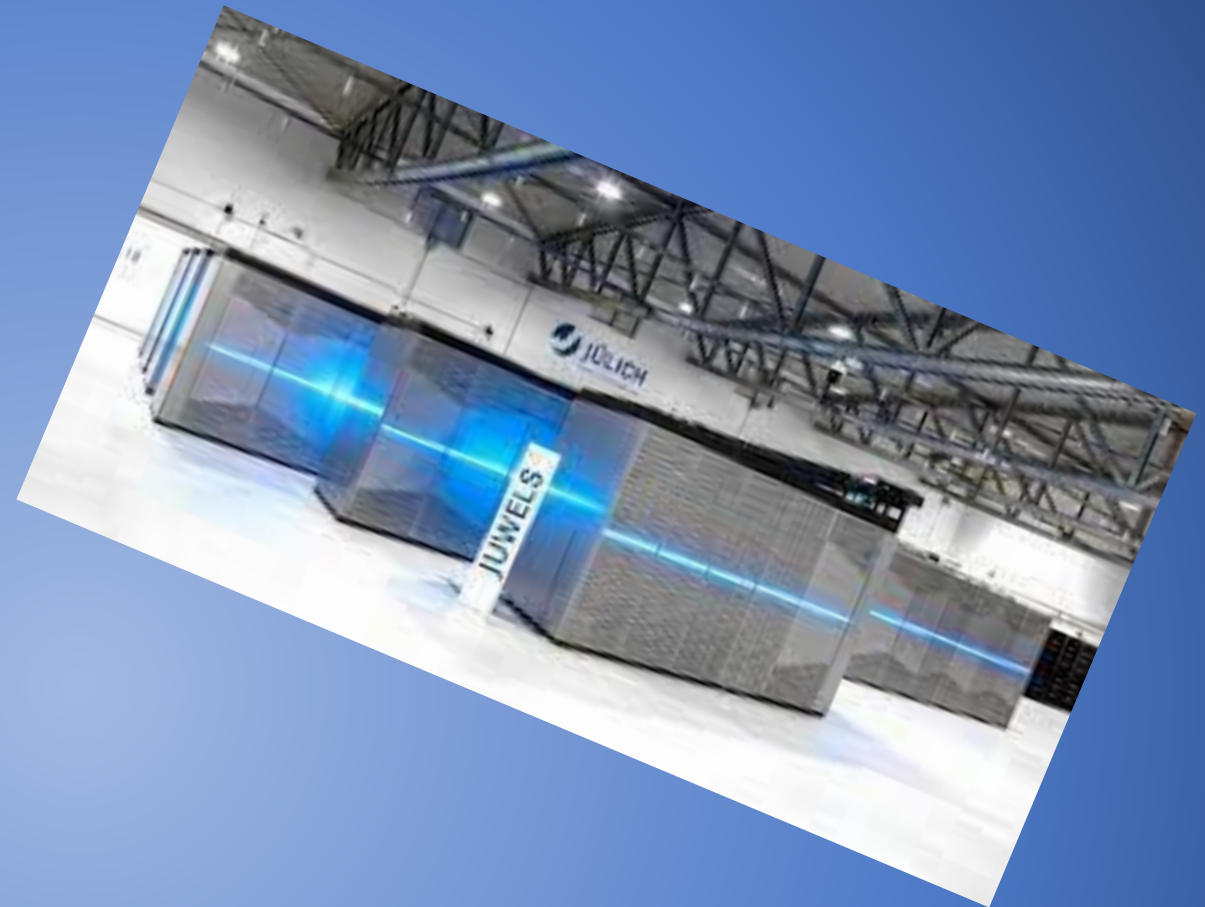
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Strategic Datamanagement
in Scientific & Bridging the Cloud

Designed for
- **Active Archive**
- **Scientific Workflow**
- **Meta Data Management**
- **AI / Research**
- **Data exchange**
- **Data migration**
- **One data lake - reduce data silos**
- **GPFS, LUSTRE, BeeGFS, …**
- **oAuth, Kerberos, LDAP, AD, …**

centralONE® brings together all data sources and modalities incl. the metadata, vendor neutral, archives the data and makes them available to the workflows and / or research

FENIX RESEARCH INFRASTRUCTURE · CSCS · CINECA · BSC Barcelona Supercomputing Center · cea · JÜLICH Forschungszentrum · HP Human Brain Project

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centralONE® in complete HPC environments

FENIX
RESEARCH INFRASTRUCTURE

JÜLICH
Forschungszentrum

Forschungszentrum Jülich

cea

Commissariat à l'énergie
atomique et aux énergies alternatives

BSC
Barcelona
Supercomputing
Center

Barcelona Supercomputing Center
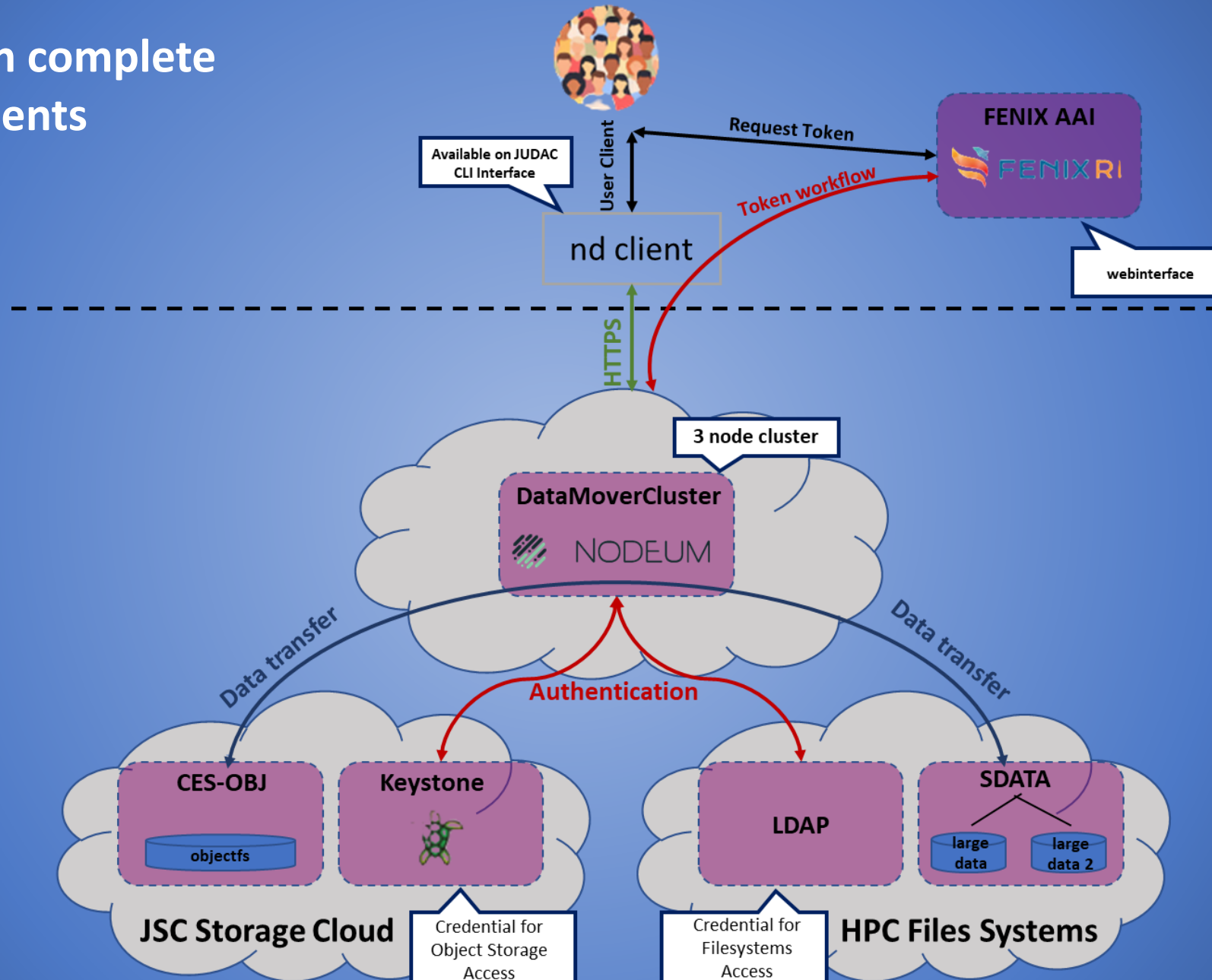
CINECA

High Performance Supercomputing
Center

CSCS

Centro Svizzero di Calcolo Scientifico

HP Human Brain Project

IDP FEDERATION

HIGH PERFORMANCE COMPUTING

ACTIVE DATA REPOSITORY

GPFS – LUSTRE - BeeGFS

NODEUM – DATA MOVER SERVICE

| WEB HTML GUI | HOOK | SLURM | EVENT HANDLER |

RESTFUL API WEB SERVICES

IDENTITY MANAGER SERVICE

WORKFLOW MANAGER SERVICE

STORAGE MANAGER SERVICE

SWIFT/S3/...   SWIFT/S3/...   SWIFT/S3/...   SWIFT/S3/...

ARCHIVAL DATA REPOSITORY

Swarm   Swarm   Swarm   Swarm

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centralONE® is based on NODEUM®

Nodeum is a multi-component services-oriented solution that provides security, scalability, and easy integration. It is designed with scalability and redundancy to manage your data without any single components.

- The resiliency is the ability to absorb the impact of a problem in one or more parts of a system, while continuing to provide an acceptable level of service.

- The scalability is the ability to continue to function well when it the average load is changed in size or volume in order to meet user needs.

Nodeum is a Data Mover software. It is designed as a multi-component services-oriented solution that provides security, scalability, and easy integration.

NODEUM

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centralONE® VAST – The Data Platform for

VAST Data has re-invented scale-out data infrastructure with an entirely new system architecture designed for the future. Meet with VAST and come away with all of your questions answered, including a customized cost breakdown of software, support, maintenance, expansion & more. Here are some of the ways we will help you explore what's possible with VAST.

Review your current infrastructure.
Understanding the required capabilities as it relates to your application is the first step.

Design For the Future.
Let us show you how to future proof your applications so you can make and leverage the AI and Big data tools you love, without limits.

Find how much you can save.
Size up your data sets to determine whether VAST's all-new similarity-based data reduction can provide additional savings.

See how VAST stacks up.
We will provide documentation on how Universal Storage compares side by side to leading vendors. Review by performance, scalability, longevity, and price.

centralONE® SWARM active archive overview

DataCore Swarm

Software-Defined Object Storage Solution for On-Premises, Private Cloud, and Hybrid Cloud Environments
Ensure rapidly scaling datasets are continuously protected and instantly accessible while eliminating tedious storage management, reducing TCO, and enabling distributed workloads.

DATACORE

´I am a fan of what you build and your visions!´
Dave Zabrowski, CEO DataCore

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centralONE® is future oriented - Metadata increases the value of the data

The Metadata Harvester enables organisations to realise the full potential of their unstructured data. Through the extraction and evaluation of metadata, files can be
files can be searched, analysed and comprehensively evaluated.

Unlock the value of your unstructured data
Digitalisation is causing data volumes in companies and institutions to grow ever faster.
In the meantime, these data volumes can neither be analysed nor processed without automated processes. Metadata is necessary to learn more about the content of files.
With the help of metadata, files can be efficiently analysed, managed and used profitably. The Metadata Harvester lifts the data treasure of these unstructured data (=files).

Meta Data Harvesting

➢ **Over 400 Fileformats**
➢ **Fast integration of new formats**
➢ **One database for AI optimization**

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Software replacement

Do you have problems with 'outdated' software?

The systems are proprietary, can only be administered with enormous effort or are neither supported nor further developed or are subject to technical restrictions?

centralONE® solves your problems especially in these environments:

➢ *Spectrum Protect*
   The software is complex and difficult to administrate.
   Administrators are hard to find, expensive when they are, and a single point of failure.
   centralONE® replaces Spectrum Protect, is easy to administrate and future-proof.

➢ *HPSS*
   This proprietary format is not very suitable for AI applications.
   The result is restricted usability of the data and dependency on the manufacturer.
   centralONE® replaces HPSS and migrates the data into open formats.

➢ *Stronglink*
   Bet on the wrong horse?
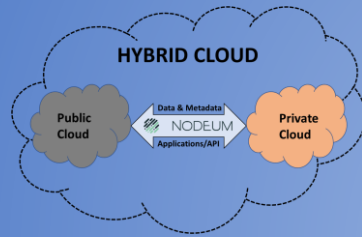   Further development and support are no longer available?
   centralONE® replaces Stronglink and is future-proof thanks to SOA and Open Source.

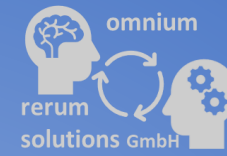# centralONE® is ready for

Public cloud

Hybrid Cloud

Private cloud

 AKQUINET CLOUD

Edge Computing

On Prem

omnium rerum
DataManagement at it´s best

Thank you for your attention!

Arrange a consultation appointment now!

As a video call or as a presence appointment at your office!

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**We solve your needs and eliminate your pains
in data management!**

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