OME Users Meeting 2009, Paris

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Outline

- About c.a.r.u.s.
- Recent Projects w/ OMERO
- Current Development
- Outlook
About c.a.r.u.s.

- High Performance Hard- & Software Solutions
- HQ in Norderstedt (Hamburg Metropolitan)
- Founded 1987
- approx. 100 employees
- 25 mill. revenue (2007)
c.a.r.u.s. Businesses

- Health
  - myMedis – Module based hospital information system (HIS) supporting the main clinical processes

- Life Science
  - ViSoR – a highly innovative and worldwide unique knowledge management workplace geared towards pharmaceutical drug development
  - OMERO – integration solutions with focus on high content/throughput screening
  - Services@MediGrid – linking research institutes in the areas of medicine, biomedical informatics and life sciences into a consortium
Former Work with PerkinElmer

- OMERO Beta 2.3
- Opera Integration
  - Replacing an Existing Commercial Product for Image Storage
  - Thus, predefined WSDL
  - Client Side Queue (Dispatcher)
- Acapella Integration
  - Custom Definitions and WSDL
- Based on Web Services
  - Apache Tomcat
  - Axis2
OMERO Beta 4 Development

- Important: Speed
- Use Local Network Services (Samba, NFS)
- Parallel Importing of Multiple Images
- Server Side Queue
Queued Multithreaded Import

User Input

Web Frontend

Queue DB

Import Service

OMERO

Server Side

Opera

low data volume

high data volume

Poll

Push

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European ScreeningPort

- Project Management and Funding
- Assay Development
- Hit Finding
- For Academical Clients

http://www.screeningport.com/
A Single Environment for Virtual and Assay Based Screening

ViSoR Software Solution
Combined Hit Lists

Virtual Compound Database

High Content Screening

Virtual High Throughput Screening
Make ViSoR the Bedrock of Your Drug Discovery

ViSoR Life Science Stack

Oracle

PostgreSQL

Your DB

IBM/SUN – Hardware layer

Java 2 Standard Edition (J2SE JDK 5.0)

Java 2 Enterprise Edition (J2EE)

cJEF High Performance Framework

Tomcat/JBoss/Geronimo

ChemAxon

cJEF-TX  cJEF-BC  cJEF-SMDB Server

Autodock

TrixX

Opera

Tripos
ViSoR-OMERO-Integration

- OMERO
- TrixX
- Genedata Screener
- Spotfire
- Your Corporate Database
Future Needs

- Stability
- Full Screen-Plate-Well Support in the GUI
- Screening Metadata Support
Thanks

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