



Integrating Portals for Collaboratories and Grid-Services

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- **Portals in research**
- **Integration of portals**

Definition Portals

“A portal is a web based application that –commonly- provides:

- **personalization,**
- **single sign on,**
- **content aggregation from different sources, and**
- **hosts the presentation layer of Information Systems.**

Aggregation is the action of integrating content from different sources within a web page.” *

* A. Abdelnur, S. Hepper. The Java Portlet Specificatio, Version 1.0, <http://jcp.org/en/jsr/detail?id=168>

Portals supporting the research collaborative work for different actors (researcher, patient, physician...etc)

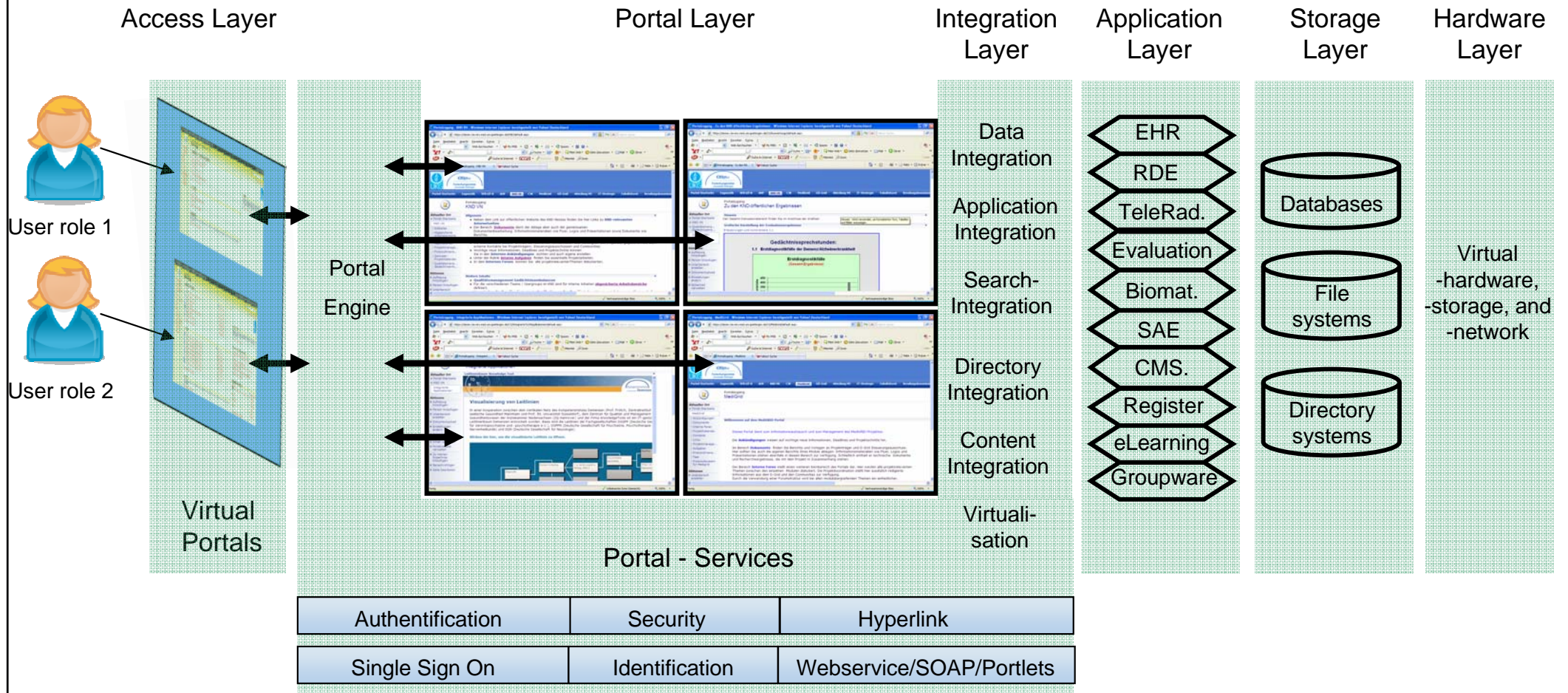
- **Available online for all users per web access**
- **Group/Organization specific collaboration environment**
- **Access through one GUI running in a secure environment to all necessary functions**
- **User role access control**
- **Portal must be intuitive for the user**



Portals integrating/merging different data and applications

- **Access to external applications and data from the local working environment**
- **Possibility of transferring data between applications in order to view the data and to present the results in one site**
- **Possibility of defining workflows to automate the data processing**
- **Optimal usability of data and applications through Single-sign-on solutions**

Portals



Integration

- **Collaboratories Portal (MS-SharePoint Portal)**
- **Grid Portal (GridSphere)**

Goals

- **Maximize usability**
- **Save implementation time**
- **Keep costs as low as possible (especially for research laboratories)**



Integration Security

- **SharePoint Portal: currently using**
 - **Active Directory (MS implementation of LDAP)**
 - **User ID and password**
- **(Medi)GRID and GridShere: currently using**
 - **DFN Grid Certificates (EU Grid PMA)**
 - **MyProxy Upload Tool**

**Integration by Meta Directory and Identity Management solutions
Outlook: integration of authentication hardware token (e.g. Health
Professional Cards, EHC) must be considered**



Integration Harmonizing the Portal-GUI

- **Maximum synergy to allow the use of data and services in the integrated environment without extra efforts**
- **Single sign on possibility**
- **User personalization and different contents on one screen aggregation possibilities**
- **Possibility of workflow-oriented and automated data processing and presenting in one environment independent of the technical solution (i.e. real resources)**

Integration

Integration of non-Grid and Grid applications

- **Non-grid-applications can be integrated as simple services**
- **Grid demanding applications can be integrated as grid services allocating and using grid resources.**
- **Some applications are ready to be deployed on this integrated portal infrastructure, which means save of development costs (e.g. caBIG open-source code and applications).**



**Many thanks for your
attention!**