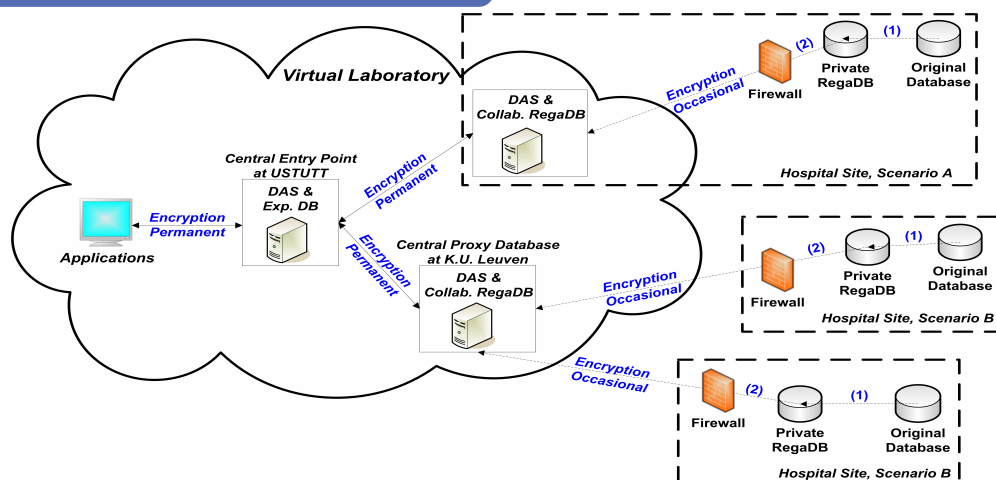
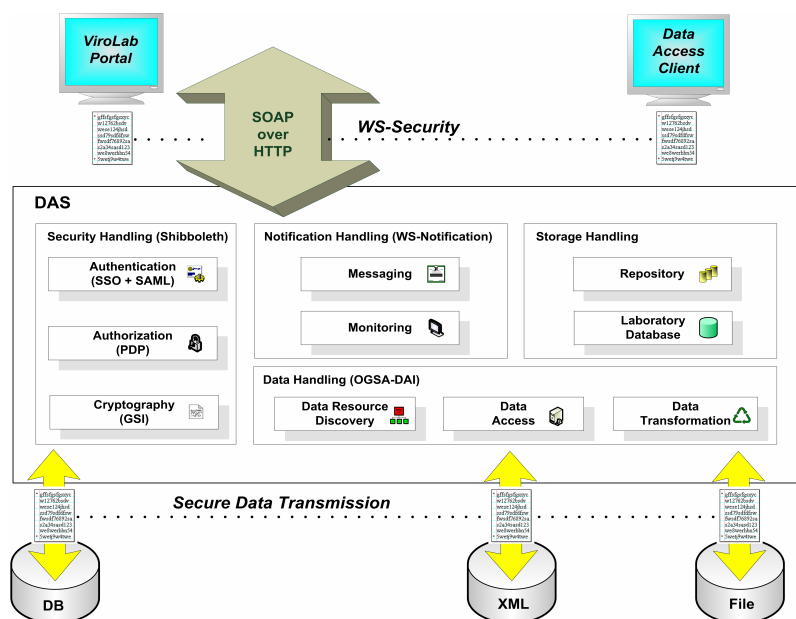


Data Sharing within ViroLab



- External access into the hospitals' security region is not required
- Data conversion into the RegaDB schema (also anonymization, extraction) occurs within each hospital
- Data update within the virtual laboratory (onto the collaborative RegaDB) preferably occurs regularly
- Central access for data queries is provided via the single access point (DAS)

Data Handling



- User authentication based on Shibboleth's Single-Sign On (SSO) principle and SAML
- Access control (user authorization) adapted to OGSA-DAI's limited capabilities using attribute-based access control policies
- Data encryption and signature using trusted certificates (GSI)

Storage Handling

- Application input and output data storage in central database, extended with meta information
- Intermediate results shortly stored in central repository

Future Plans

- Policy Decision Point (PDP) to enable dynamic authorization
- GUI (Portlet) to manage access control policies
- Parallelization of distributed queries
- Meta Query Language (MQL) to facilitate interaction between DAS, provenance system and clients

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References: Assel M., Kipp A. *A Secure Infrastructure for Dynamic Collaborative Working Environments*. Proceedings of the International Conference on Grid Computing and Applications 2007, Las Vegas, USA, June 2007.

Assel M., Krammer B., Loehden A. *Management and Access of Biomedical Data in a Grid Environment*. Proceedings of the 6th Cracow Grid Workshop 2006, Cracow, Poland, October 2006.

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