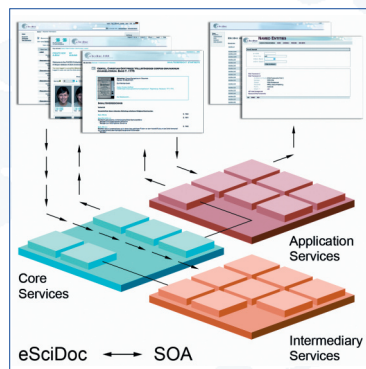MAX PLANCK
digital library

FIZ Karlsruhe

Key Features of eSciDoc

- Repository-based (Fedora)
- Service-oriented architecture
- Support for different objects, metadata profiles, aggregations and content models
- Managing organizational units
- Searching in full-texts and metadata
- Security with distributed authentication (Shibboleth)
- Event logging and statistics
- Assigning persistent identifiers for stable references and reliable citations
- Automatic extraction of technical metadata
- Efficient validation of XML data with detailed error reporting
- Citation Style Manager for the generation of publication lists in various citation styles
- Internationalization and localization
- Long-term preservation aspects, including metadata generation (PREMIS)

Additional services are currently under development, including integration of named entities (i.e. author id's and journal names) and a service for convenient ingestion of mass data.

Re-use of Software

The eSciDoc software is open sourced and licensed under the Common Development and Distribution License, an OSI-approved open source license. Everyone is invited to download and evaluate the eSciDoc infrastructure and eSciDoc solutions. We welcome feedback and encourage users to provide us with their use cases and scenarios, share their expertise with us, and create their own solutions. Re-use of the eSciDoc software strengthens the platform and helps unleashing synergies.

More information on the eSciDoc community:
http://www.escidoc.org/JSPWiki/en/Support

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e SciDoc
P R O J E C T

The Open Source eResearch Environment

What is eSciDoc?

eSciDoc is an **eResearch environment** developed specifically for use by scientific and scholarly communities to collaborate globally and interdisciplinary. It comprises a set of **services and solutions** that enable innovative eScience scenarios: Scientists, librarians, and software developers can work with research data, create novel forms of publications, and establish new ways of scientific and scholarly communication.

Research Benefits

Improve visibility of research results
- Easy access from everywhere

Maintain both data and publications
- Flexible content models
- Flexible metadata formats

Rely on stable citations
- Versioning
- Persistent identifiers

Integrate with existing tools
- Open programming interfaces
- Application-independent design

Re-use data
- Provide context with data
- Semantic linking

Secure research results
- Preservation
- Stable links
- Provenance metadata

Collaborate across institutional bounds
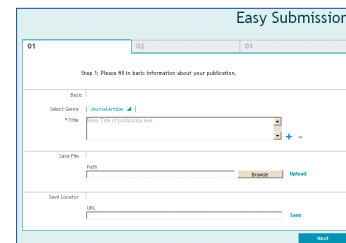- Distributed authentication
- Tools for virtual working groups

Mix open access and private material
- Fine-granular access rights

eSciDoc Solutions

Solutions are applications built on top of the generic infrastructure. They address specific research scenarios, initially based on requirements from the institutes of the Max Planck Society.
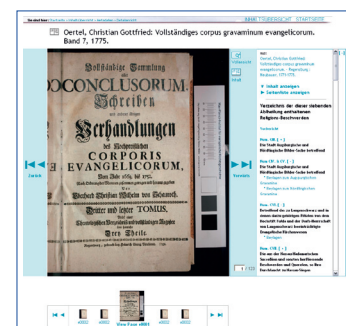
Publication Management (PubMan)

… a local and institutional publication repository

FACES

… a lifespan digital collection of pictures of adult emotional facial stimuli

Virtueller Raum Reichsrecht (ViRR)

… a digital collection and cooperative working environment for various legal text corpora

Sustainability

eSciDoc is a joint project of the Max Planck Society and Fachinformationszentrum (FIZ) Karlsruhe, funded by the German Federal Ministry of Education and Research (BMBF) from 2004-2009.

Both Max Planck Society and FIZ Karlsruhe see eSciDoc as of strategic value for the two organizations. Therefore, both partners have signed a cooperation memorandum that covers the further joint development of eSciDoc for the time after the current project.

At the same time, both partners will transform eSciDoc into a community-driven effort in the spirit of a true open source project. The Fedora Commons community considers eSciDoc to be one of the flagship projects in the field of eResearch.

- The open source philosophy and community model
- the ongoing partnership of Max Planck Society and FIZ Karlsruhe
- the further development of the eSciDoc software
- the extensive services offered to the user community

ensure the sustainability of a state-of-the-art eResearch environment for multi-disciplinary research.