



KEEP SOLUTIONS is an academic spin-off of the University of Minho that offers a wide range of products and services to support the creation and support of digital archives, museums and libraries.

Its services consist of design and development of information management systems, consulting, digital preservation, repository migration, support and training.

KEEP SOLUTIONS is highly involved in the development of open-source systems such as DSpace, Fedora Commons, Koha and RODA.

The company carries out research in close collaboration with national and international research organizations such as the Technical University of Vienna, the University of Minho, the National Foundation for Science and Computation, and the Portuguese National Archives.

The company has several national-wide customers, including the National Archives, several Ministries, over 25 academic institutions, and others.

Since 2011, KEEP SOLUTIONS is part of the consortium of the FP7 funded project SCAPE – SCALable Preservation Environments.



Universidade do Minho SPINOFF

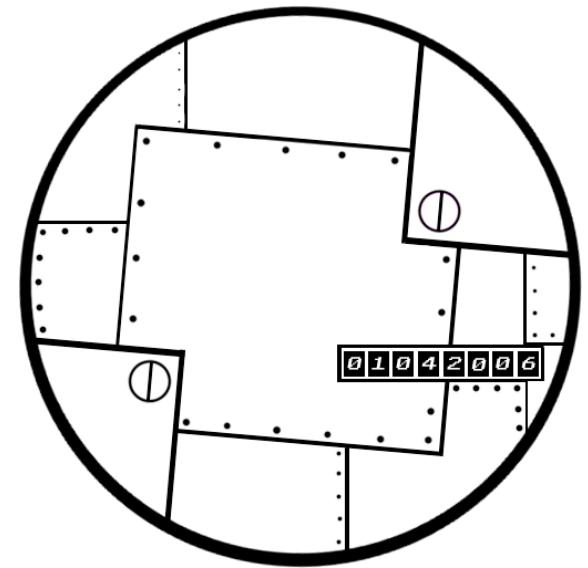
KEEP SOLUTIONS

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Clients



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RODA

The world's most advanced
open-source repository for
digital preservation

RODA

A full-fledged digital repository for long-term preservation

RODA is an open-source digital repository specially designed for archives, with long-term preservation and authenticity as its primary objectives. RODA was designed to support the most recent archival standards and become a trustworthy digital repository.

RODA was developed on top of Fedora Commons and embodies high-level standards of security, scalability and usability. Its centralized architecture enables easy management while the auto-deposit tools and ingest workflows account for the optimization of human-resources.

Data management functionalities allow users to create and modify descriptive metadata and define rules for executing digital preservation actions, e.g. integrity checks, migration processes, virus checks, etc. Administration procedures allow the definition of access rights to data and operational permissions for each user or group.

RODA is a complete digital repository system that provides functionality for all of units of the OAIS reference model. RODA fully implements an ingest workflow that validates SIPs and normalizes objects to preservation formats. It provides access by delivering different ways to search and navigate over available digital content as well as visualizing and downloading those materials.

The screenshot shows the RODA administration interface. At the top, there's a navigation bar with links like 'ABOUT RODA', 'CATALOG', 'INGEST', 'ADMINISTRATION', 'SCHEDULER', and 'LOGOUT'. Below the navigation is a header 'Welcome administrator' and a 'Logout' link. The main content area is titled 'SCHEDULER' and shows a table of 'Scheduled tasks'. The table has columns for 'Name', 'Start date', 'Repeat', 'Username', and 'Status'. There are 8 scheduled tasks listed:

Name	Start date	Repeat	Username	Status
Ingest/Check autorisati	2009-06-05 17:05:39	repeat every 5 minutes forever	administrator	paused
Ingest/Check syntax	2009-06-04 10:40:00	repeat every 1 minutes forever	administrator	running
Ingest/Create AIP	2009-06-04 11:02:00	repeat every 1 minutes forever	administrator	completed
Ingest/Monitor FTP	2009-06-04 10:29:00	repeat every 1 minutes forever	administrator	all
Ingest/Normalize	2009-06-04 11:03:00	repeat every 1 minutes forever	administrator	Name
Ingest/Check	2009-06-04 11:03:00	repeat every 1 minutes forever	administrator	running
Ingest/Check	2009-06-04 11:03:00	repeat every 1 minutes forever	administrator	running
Ingest/Check	2009-06-04 11:03:00	repeat every 1 minutes forever	administrator	running

Check out our demo or request a virtual machine with RODA pre-installed. More information at <http://tinyurl.com/roda2011>

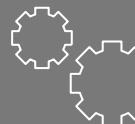
LONG-TERM ACCESSIBILITY

Consumers are able to browse through ingested collections and download digital representations. Depending on the type of the digital content, different viewers are exposed to the user. Text documents are delivered through a book reading application or in downloadable form. Digitized documents composed of several images are displayed in a viewing application that allows to navigate through the several pages of the representation. Databases are disseminated using Web-based navigator that enables querying and export functions over preserved relational databases.



INSTALLATION AND SUPPORT

This service provides installation and support for all RODA features, software updates, branding and customization.



CUSTOM DEVELOPMENT

This service includes the development of new action services, implementation of custom ingest workflows, development of new and improved content viewers, as well as integration services.



TRAINING

Training programs exist for all types of user profiles ranging from system administrators, developers, repository managers and repository users.

CONFORM TO OPEN STANDARDS

RODA follows open standards, using EAD for description metadata, PREMIS for preservation metadata, METS for structural metadata, and several other standards for technical metadata (e.g. NISO Z39.87 for digital still images). RODA is also OAIS and TRAC compliant.

AUTHENTICITY OF DIGITAL RECORDS

Preservation metadata, together with TRAC compliance insure reliability and authenticity of digital records across time. Preservation management within RODA is handled by a scheduling mechanism that enables events and actions to be executed timely or on demand. Preservation experts can also define rules that trigger specific preservation actions. These actions include format identification tools, format converters, checksum verification, notifications, etc. RODA uses preservation metadata (PREMIS) to create a trust chain between all versions of ingested representations. All actions in the system are logged ad eternum.

SUPPORT FOR VARIOUS DATA FORMATS

RODA is capable of ingesting and automatically normalize (according to the preservation plan in place) various data types in various formats, e.g. text documents, raster images, relational databases, video, and audio. RODA also incorporates an advanced relational database importer and converter tool capable of taking snapshots of relational databases based on MS SQL Server, MS Access, PostgreSQL, MySQL, and generic ODBC. The importer stores the database in a preservation-friendly format called DBML (XML-based), which is preserved within the repository.

FINE GRAINED PERMISSIONS

No anonymous use of the repository is allowed. All users must be authenticated prior to accessing the repository, and all user actions are logged. All preservation actions, such as format conversions, are likewise recorded. Permissions can be fine-tuned so that they can be applied at repository level and all the way down to individual data objects. If a user does not have permission to view a specific item then it will not show up in her search results. RODA uses Open LDAP for authentication and integration across all components. Users, groups and permissions may be configured in RODA's administration GUI.

EXTENSIBILITY

The RODA exposes all its functionality via Web Services. Convenient Java libraries are also available to allow developers to interact with the system, making it highly extensible and easy to integrate with existing systems, workflows and ingest procedures.