RODA

An open-source digital repository designed for preservation

What is RODA?

A digital repository designed for archives with the following characteristics

Open-source

Long-term Preservation and Authenticity

Based on standards EAD, PREMIS, OAIS, METS, ...

Secure

fine-grain permissions, no anonymous usage, LDAP

Scalable architecture (SOA)

Clean web user interface

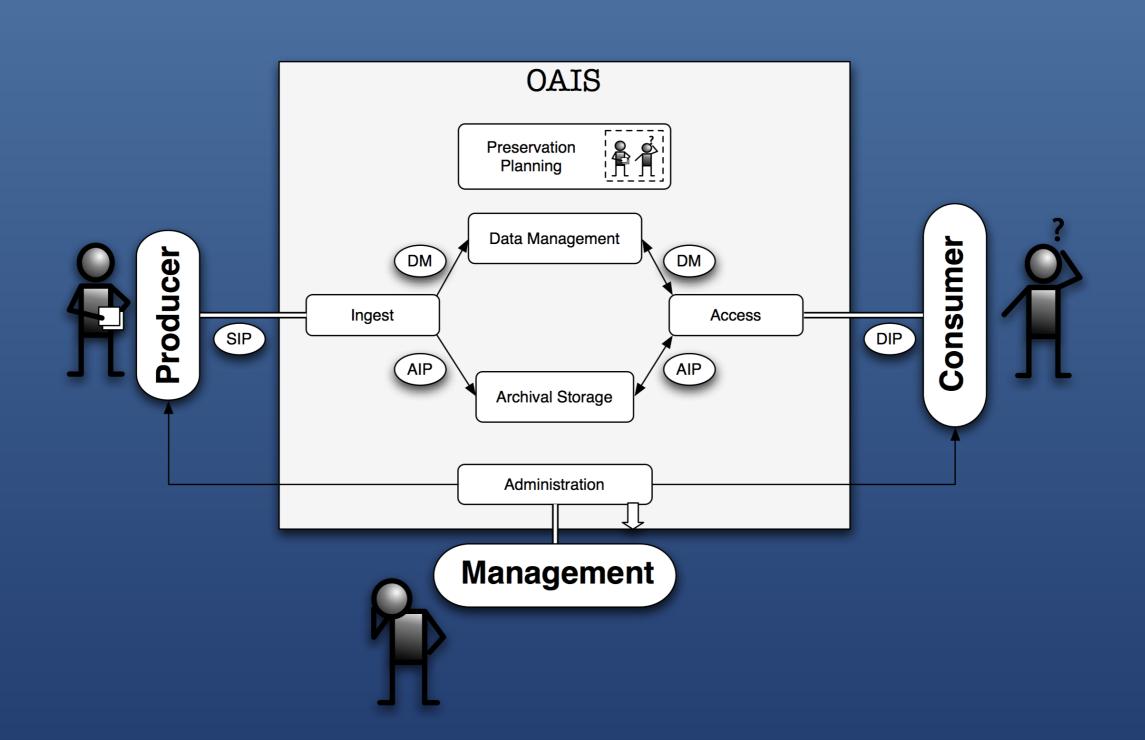
Vendor independent

Built on top of

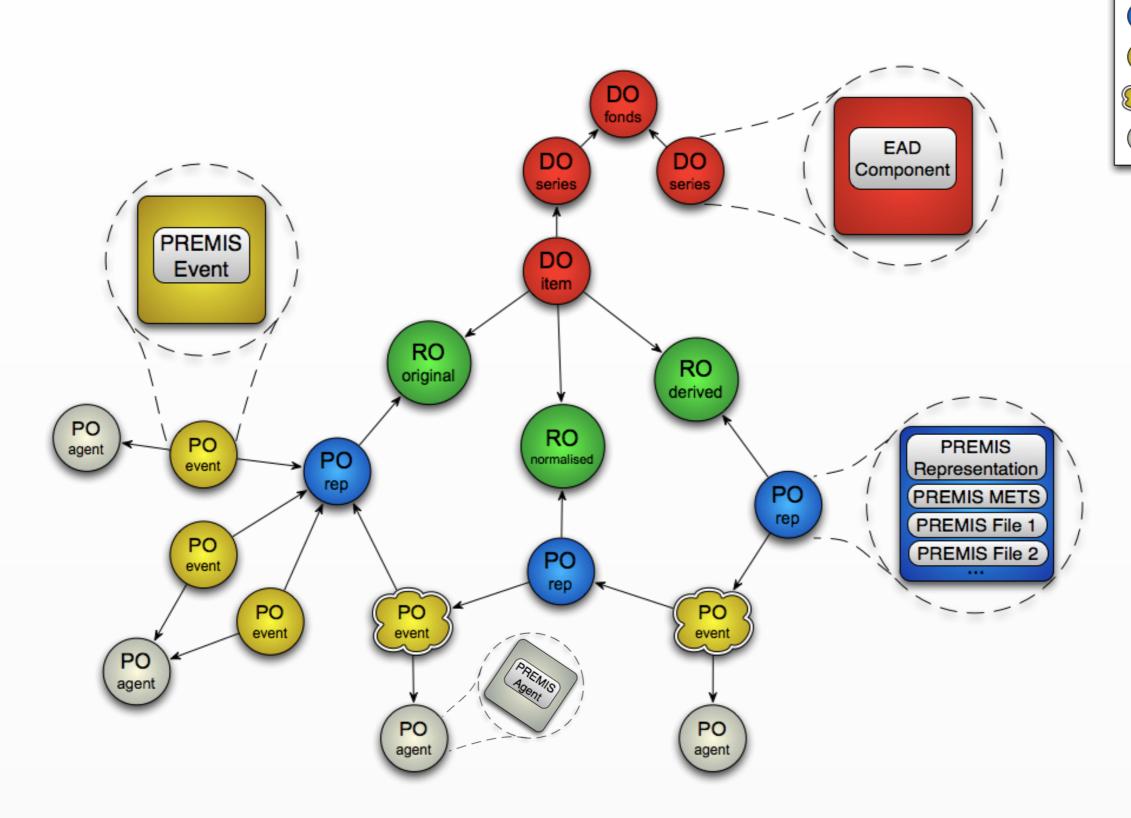


OAIS compatible

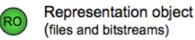
but... who isn't anyway?



Atomistic data model



Description object (EAD component)



Preservation object (PREMIS object entity)

Preservation object (PREMIS event entity)

Preservation object (PREMIS linking event)

Preservation object (PREMIS agent)

Supported media types



Text documents (PDF)



Relational databases (DBML)



Video (MPEG-2)



Audio (Wav)



Digitised works (TIFF unc.)

Supported media types



Text documents (PDF)



Relational databases (DBML)



Video (MPEG-2)



Spreadsheets (CSV, PDF)



Audio (Wav)



Presentations (PDF)



Digitised works (TIFF unc.)



E-mail

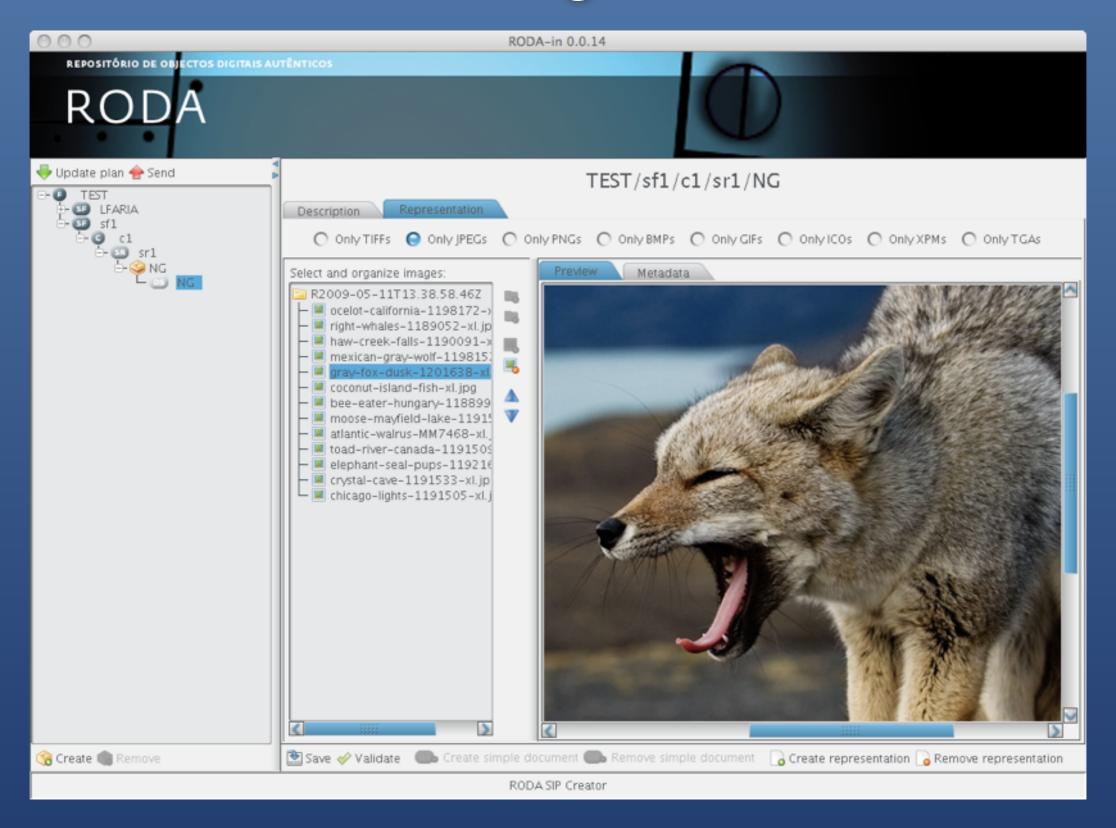


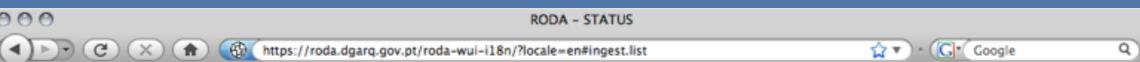
All other media types can also be ingested But will only be preserved at the bit level

Default ingest workflow

Step	Name	Description
1	Upload	Upload SIP to the ingest stage area by HTTP, FTP or local copy
2	Unzip	Open ZIP package
3	Virus Check	Check all files for viruses with Clam Anti Virus
4	Syntax and fixity check	Check if metadata is well formed and integrity of all files against checksums in METS envelope
5	Authorization check	Check if user has authorization to ingest into the defined classification plan
6	Ingest	Ingest original into Fedora. This ingestion is not final, can be undone in next steps.
7	Normalization	Check if representation needs normalization, and enforce it as needed
8	Semantic check	Manual semantic check by an archivist, then object is marked active, indexed and published.

RODA ingest tool





Welcome Ifaria

Logout

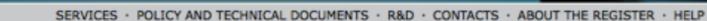
Preferences

3 第

Most Visited ▼ Getting Started Latest Headlines 3

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REPOSITÓRIO DE OBJECTOS DIGITAIS AUTÊNTICOS



CATALOG BROWSE · SEARCH · ADVANCED SEARCH · HELP

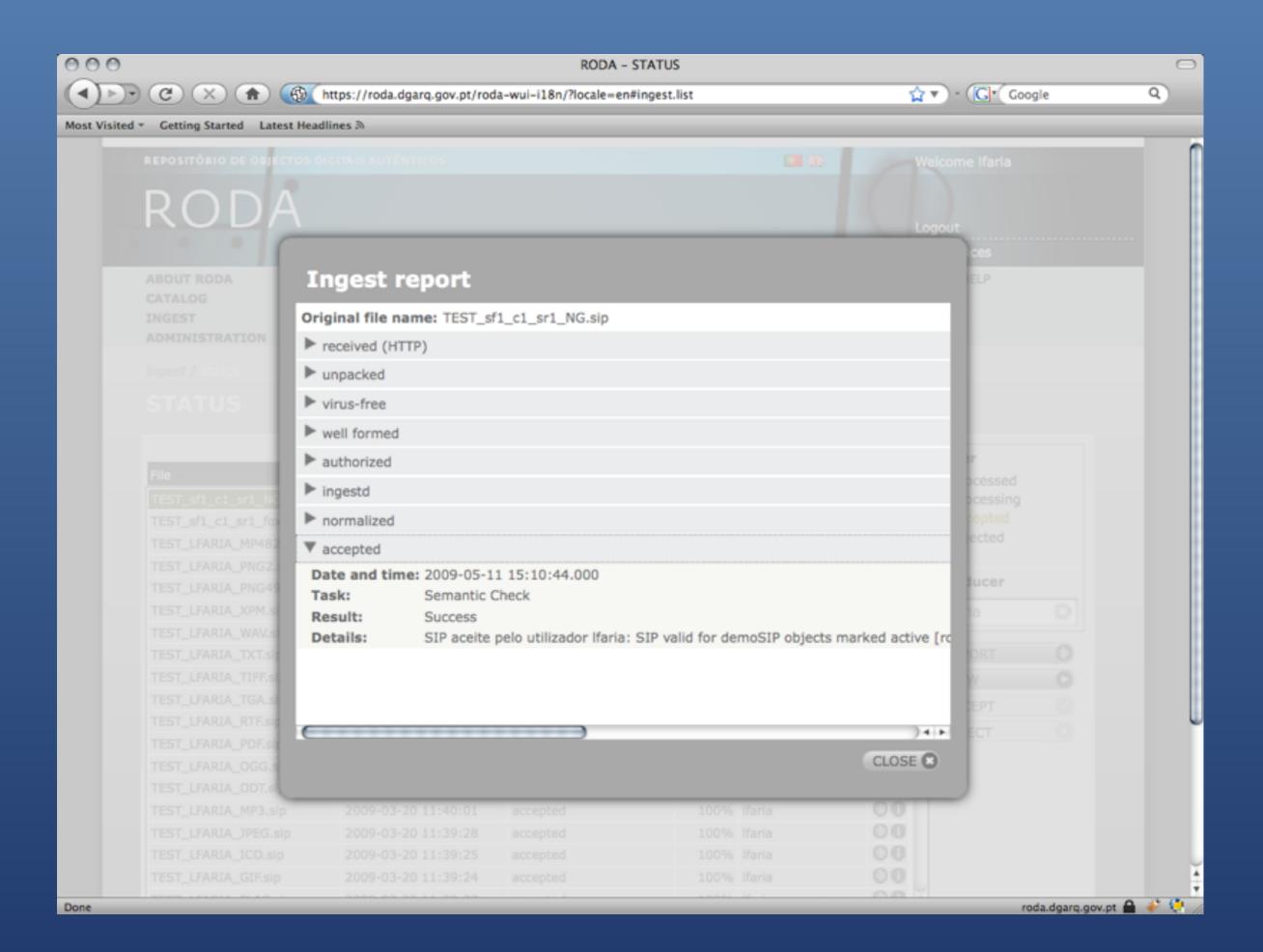
INGEST PRE-INGEST · SUBMIT · STATUS · HELP

ADMINISTRATION USERS · SCHEDULER · STATISTICS · LOG · HELP

ABOUT RODA

STATUS

				38	packets mi ci	Filter	
File	Submission date *	Current state	%	Producer	\$	processed	
TEST_sf1_c1_sr1_NG.sip	2009-05-11 14:41:47	accepted	100%	Ifaria	9 1	processing	
TEST_sf1_c1_sr1_fox.sip	2009-05-07 12:19:36	accepted	100%	Ifaria	00	accepted	
TEST_LFARIA_MP48298.sip	2009-03-20 17:50:39	accepted	100%	Ifaria	00	rejected	
TEST_LFARIA_PNG2.sip	2009-03-20 15:06:14	accepted	100%	Ifaria	00	All	
TEST_LFARIA_PNG492.sip	2009-03-20 15:05:28	accepted	100%	Ifaria	00	Producer	
TEST_LFARIA_XPM.sip	2009-03-20 11:40:25	accepted	100%	Ifaria	00	Ifaria 🔘	
TEST_LFARIA_WAV.sip	2009-03-20 11:40:24	accepted	100%	Ifaria	00		
TEST_LFARIA_TXT.sip	2009-03-20 11:40:16	accepted	100%	Ifaria	00	REPORT O	
TEST_LFARIA_TIFF.sip	2009-03-20 11:40:15	accepted	100%	Ifaria	00	VIEW 🖸	
TEST_LFARIA_TGA.sip	2009-03-20 11:40:15	accepted	100%	Ifaria	00	ACCEPT	
TEST_LFARIA_RTF.sip	2009-03-20 11:40:14	accepted	100%	Ifaria	00	REJECT	
TEST_LFARIA_PDF.sip	2009-03-20 11:40:13	accepted	100%	Ifaria	00	KEJECT	
TEST_LFARIA_OGG.sip	2009-03-20 11:40:06	accepted	100%	Ifaria	00		
TEST_LFARIA_ODT.sip	2009-03-20 11:40:05	accepted	100%	Ifaria	00		
TEST_LFARIA_MP3.sip	2009-03-20 11:40:01	accepted	100%	Ifaria	00		
TEST_LFARIA_JPEG.sip	2009-03-20 11:39:28	accepted	100%	Ifaria	00		
TEST_LFARIA_ICO.sip	2009-03-20 11:39:25	accepted	100%	Ifaria	00		
TEST_LFARIA_GIF.sip	2009-03-20 11:39:24	accepted	100%	Ifaria	00		
TECT LEADIN CLAC	2000 02 20 11 20 22		4000	16	0.0		



Access

ADVANCED SEARCH

all levels choose levels	☐	□ Series □ Ifile □ Subseries ☑ Item	
elect the time limit	s in which to search		
without time restriction specify interval		01 to 2009 January 01 to	
ill out the words yo	u want to find		
all the fields choose fields	tests		
enouse needs	● all words ○ exact phrase ○ at least on	ne of the words O without the words	
Complete reference	☐ Quote	☐ Physical characteristics and technical requirements	
☐ Title	Administrative and biographical history	☐ Access restritions	
☐ Origination	Custodial history	☐ Reproduction restritions	
Acquisition number	Acquisition information		
☐ Material specification		Other find aids	
	✓ Scope and content	☐ Related Materials	
Physical description	C Occasiontion and ordering		
 □ Physical description □ Dimensions 	 Organization and ordering 		
	Appraisal	☐ Bibliography	



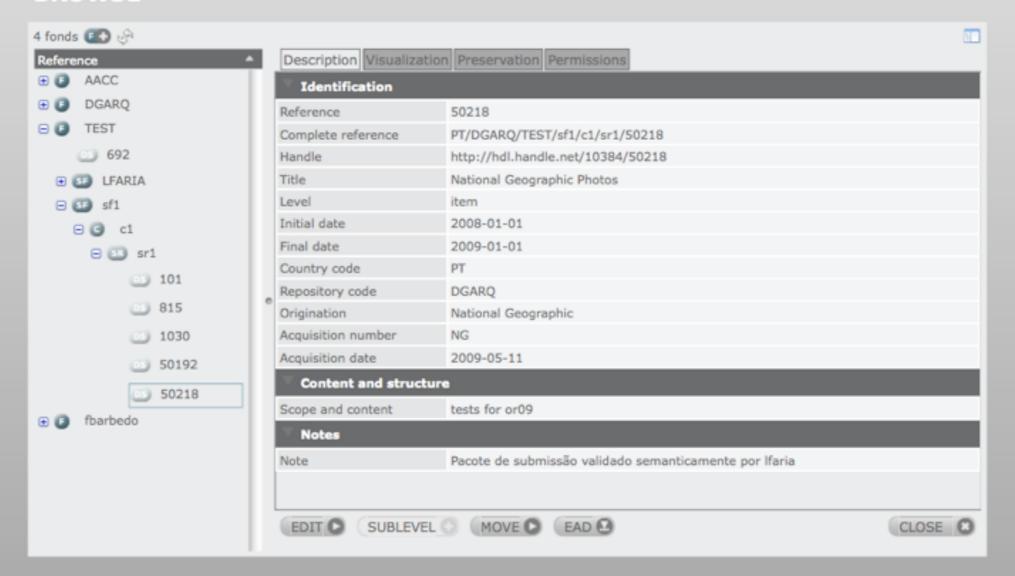
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USERS · SCHEDULER · STATISTICS · LOG · HELP **ADMINISTRATION**

BROWSE



















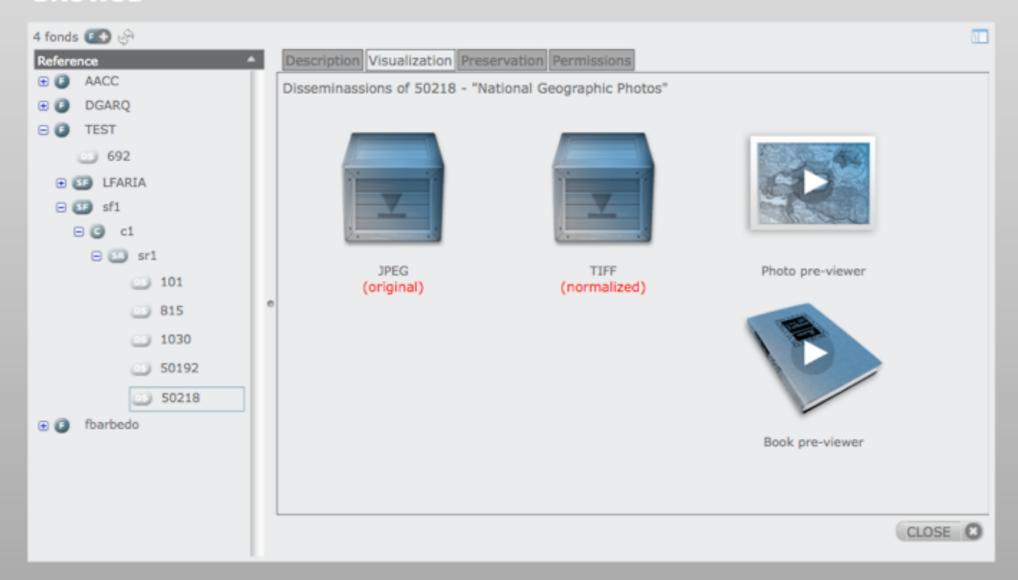
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BROWSE



















National Geographic Photos















(5/13) gray-fox-dusk-1201638-xLjpg.tiff

SIMPLEVIEWER











Lets talk about preservation, shall we?

Normalisation on ingest

Configurable normalisation rules

Automatic generation of preservation metadata

PREMIS events, representation information, agents

Preservation plans can be executed on the demand

New preservation components are easily installed as add-ons

Original representations are kept unchanged

Enables future approaches, e.g. emulation on-demand

Fixity checks

Notifications are sent when bit rot is detected

Management features



Welcome Ifaria



 ROD^{p}

CATA INGE

Advanced user management

administration / users / IIS 07 USERS

LIST OF USERS

LLABCDEFGHIJ	K L M N O P Q R S T U V W X Y Z	19 user(s)	List	
🚨 admin	Administrador RODA	•	Users	
arodrigues	Ana Maria do Rosário Silva Rodrigues	€	Groups	
chenriques	Maria Cecília de Jesus Henriques	€	Search	
fbarbedo	francisco barbedo	•	Search	
guest	Utilizador anónimo	0		0
🚨 jmaferreira	José Ferreira	0		
Icorujo	Luis Miguel Nunes Corujo		Users	
💍 Ifaria	Luís Francisco da Cunha Cardoso de Faria	•	REPORT	0
guests administrators			NEW	0
nariosantana	Mário Henrique Marçal Sant'Ana	0	EDIT	O
mferreira	José Miguel Araújo Ferreira	0	INACTIVATE	0
nfrias	Miguel Frias	0	REMOVE	0
🗟 qwert	qwertyuiop	0	Groups	
s rcastro	Rui José Gonçalves de Castro	€		-
noda-disseminator	RODA	€	NEW	C
noda-handle	RODA Handle	•	EDIT	
🐧 roda-ingest-task	RODA	€	REMOVE	
noda-preservation-task	RODA	⊖		
🐧 roda-wui	RODA	⊜		
stest001	Test	0		





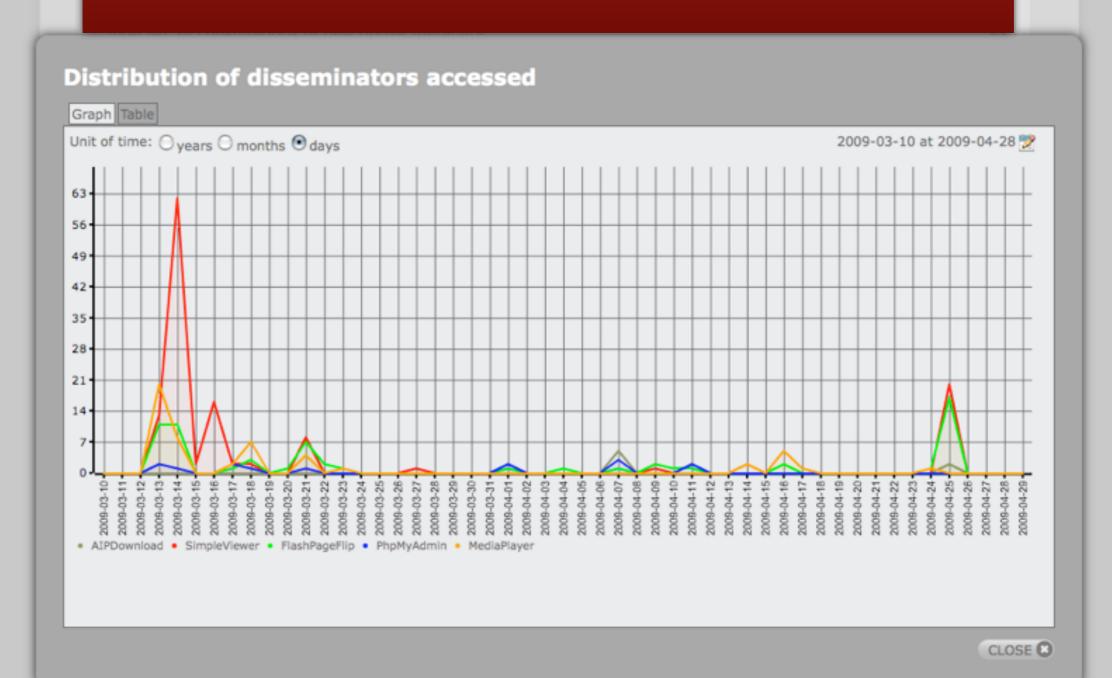








Reporting & statistics



confirmed.

Total No. of confirmed email addresses

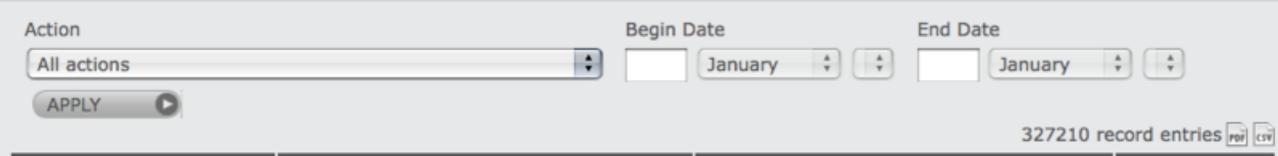
0

INGEST
ADMINISTRATION

Comprehensive logging system auditing purposes

administration / lo

LOG



Date and Time	▼ Action	Parameters	User
2009-05-12 12:07:35.0	RODAWUI pageHit	hostname: 193.136.19.138 address: 193.136.19.138 user: beta pagename: administration.log	lfaria
2009-05-12 12:05:10.0	Browser getProducers	doPID: roda:2	Ifaria
2009-05-12 12:05:10.0	UserBrowser getUser	name: mferreira	Ifaria
2009-05-12 12:05:10.0	UserBrowser getGroup	groupName: administrators	Ifaria
2009-05-12 12:05:10.0	UserBrowser getGroup	groupName: producers	Ifaria
2009-05-12 12:05:07.0	UserBrowser getUser	name: admin	Ifaria
2009-05-12 12:05:07.0	UserBrowser getUser	name: fbarbedo	Ifaria
2009-05-12 12:05:07.0	UserBrowser getUser	name: Ifaria	Ifaria
2009-05-12 12:05:07.0	UserBrowser getUser	name: mferreira	Ifaria
2009-05-12 12:05:07.0	UserBrowser getGroup	groupName: administrators	lfaria
2009-05-12 12:05:06.0	Browser getDescriptionObject	pid: roda:2	Ifaria
2009-05-12 12:05:06.0	Browser getRODAObjectUserPermissions	pid: roda:2	Ifaria
2009-05-12 12:05:06.0	Browser getRODAObjectPermissions	pid: roda:2	Ifaria
2009-05-12 12:05:05.0	RODAWUI pageHit	hostname: 193.136.19.138 address: 193.136.19.138 user: beta pagename: dissemination.browse.2	lfaria
2009-05-12 12:05:05.0	Logger addLogEntry	logEntry: LogEntry (datetime=null, address=192.168.111.154, username=lfaria, action=RODAWUI pageHit pagemeters=	roda-wui

Take up so far...

Running at

National Archives of Portugal
National Archives of Brazil (will go live soon)

Organisations that have requested the VM

University of Michigan, USA

National Library of Wales, UK

The Bavarian State Archives, Germany

King's College London, UK

University of Dundee, UK

Casa de las Americas, Cuba

Marine Biological Laboratory, USA

ELDA: Evaluations and Language resources Distribution Agency

Unicamp, Brasil

National Library of Australia

University of St Andrews, UK

Community support



An open-source digital repository designed for preservation

RODA is a complete digital repository that delivers functionality for all the main units of the OAIS reference model. RODA is capable of ingesting, managing and providing access to the various types of digital content produced by large corporations or public bodies. RODA is based on open-source technologies and is supported by existing standards such as the OAIS, METS, EAD and PREMIS.



Conforms to open standards

RODA follows open standards using EAD for description metadata, PREMIS for preservation metadata, METS for structural metadata, several standards for technical metadata (e.g. NISO 239.87 for digital still images).



Vendor independent

RODA is 100% built on top of open-source technologies. The entire infrastructure required to support RODA is vendor independent. This means that you may use the hardware and Linux distributions that best fit your institutional needs.



Scalable

The service-oriented nature of RODA's



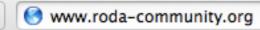
Embedded preservation actions

Preservation actions and management within















The world's most advanced open-source digital repository



www.roda-community.org

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Embedded preservation actions

Preservation actions and management within

Know more about the project and product

Download RODA

Source-code, binary, VM

Online demo

demo.roda-community.org

Find help

Documentation, developers guide, articles, mailing lists

Find vendors for paid support



Developing the future today