

Project Identifier: *iridium*

Version: v1 Date: 17.5.2012

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iridium project output

iridium external RDM tools assessment

Project Information			
Project Title	<i>iridium - Institutional Research Data Management at Newcastle University</i>		
Project Hashtag	# <i>iridiummrd</i>		
Start Date	1 October 2011	End Date	30 June 2013
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Partner Institutions	Not applicable		
Project Web URL	http://research.ncl.ac.uk/Iridium/		
Programme Name	<i>JISCMRD02</i>		
Programme Manager	Simon Hodson		
Document Information			
Author(s)	iridium Support Team		
Project Role(s)	As above		
Date	17 May 2012	Filename	<i>iridium_external_tools_assessment_17_5_2013_v1_PGR_LW.docx</i>
URL	http://research.ncl.ac.uk/iridium/outputs/		
Access	Online survey draft for external review		
Document History			
Version	Date	Comments	
v1	30 June 2013	<i>iridium_external_tools_assessment_17_5_2013_v1_PGR_LW.docx</i> (coversheet added by LW)	

iridium project external RDM tools assessment

External tools assessment approach was blogged¹. The searchable DCC Tools & Service Catalogue (<http://www.dcc.ac.uk/resources/external/tools-services>) was released during the tools review and proved a useful service.

Table 1. Table of reviewed external RDM tools identified through DCC.

Tool	DCC Record	DCC Category	Target	Keywords	URL
Dataverse	http://www.dcc.ac.uk/search/node/Dataverse%20type%3Ares_tool	Managing Active Research Data	Researcher	Hosting, social sciences, versioning, access rights, harvesting, datasets	http://thedata.org/
Kepler	http://www.dcc.ac.uk/search/node/Kepler%20type%3Ares_tool	Managing Active Research Data	Researcher Curator	Scientific workflow, data curation	https://kepler-project.org/
LabTrove	http://www.dcc.ac.uk/search/node/LabTrove%20type%3Ares_tool	Managing Active Research Data Workflow and Lab Notebook Management	Researcher	Research blogging, electronic notebook, instrumentation, metadata capture, annotation, laboratory	http://www.labtrove.org/
MyExperiment	http://www.dcc.ac.uk/search/node/MyExperiment%20type%3Ares_tool	Managing Active Research Data	Researcher	Research social networking, collaboration, sharing, workflows, plans, digital objects	http://www.myexperiment.org/
Taverna	http://www.dcc.ac.uk/search/node/Taverna%20type%3Ares_tool	Managing Active Research Data	Researcher	Large-scale data, services, scripts, computational tasks, modelling, workflow management	http://www.taverna.org.uk/
WebCite	http://www.dcc.ac.uk/search/node/WebCite%20type%3Ares_tool	Managing Active Research Data Creating unique identifiers	Researcher Publishers	Web archiving, snapshot, digital objects, unique identifier	http://www.webcitation.org/
Researchgate	http://www.dcc.ac.uk/search/node/Researchgate%20type%3Ares_tool	Sharing Output and Tracking Impact	Researcher	Networking, outputs, profile	http://www.researchgate.net/
Curator workbench	http://www.dcc.ac.uk/search/node/Curator%20workbench%20type%3Ares_tool	Depositing and Ingesting Digital Objects	Curator	Data preparation, pre-submission, repository submission	http://www.lib.unc.edu/blogs/cdr/index.php/2011/01/13/curators-workbench-is-now-free-and-open-source-software/
Archivelt	http://www.dcc.ac.uk/search/node/Archivelt%20type%3Ares_tool	Depositing and Ingesting Digital Objects	Curator	Archiving, records, snapshot	http://www.archive-it.org/

¹¹ <https://iridiummr.wordpress.com/2012/10/03/iridium-reporting-on-identification-of-available-external-and-internal-tools-rdm-tools/>

Tool	DCC Record	DCC Category	Target	Keywords	URL
Duke Data Accessioner	http://www.dcc.ac.uk/search/node/Duke%20Data%20Accessioner%20type%3Ares_tool	<i>Depositing and Ingesting Digital Objects</i>	Curator	Data migration, physical media, server, checksum, migration workflow	http://library.duke.edu/uarchives/about/tools/data-accessioner.html
FITS	http://www.dcc.ac.uk/search/node/FITS%20type%3Ares_tool	<i>Depositing and Ingesting Digital Objects</i>	Curator	Metadata, curation, validate, extract, normalising	http://code.google.com/p/fits/
Heritrix	http://www.dcc.ac.uk/search/node/Heritrix%20type%3Ares_tool	<i>Depositing and Ingesting Digital Objects</i>	Curator	Web archiving, web crawler	https://webarchive.jira.com/wiki/display/Heritrix/Heritrix
JHove2	http://www.dcc.ac.uk/search/node/JHove2%20type%3Ares_tool	<i>Depositing and Ingesting Digital Objects</i>	Curator	Digital object characterise, format, validating, metadata extraction	https://bitbucket.org/jhove2/main/wiki/Home
MIXED	http://www.dcc.ac.uk/search/node/MIXED%20type%3Ares_tool	<i>Depositing and Ingesting Digital Objects</i>	Curator	Transformation, XML, spreadsheets, database, SDFP	https://sites.google.com/a/datanetworkservice.nl/mixed/
Nesstar	http://www.dcc.ac.uk/search/node/Nesstar%20type%3Ares_tool	<i>Depositing and Ingesting Digital Objects</i>	Curator	Data publication, platform	http://www.nesstar.com/
Netarchive Suite	http://www.dcc.ac.uk/search/node/Netarchive%20Suite%20type%3Ares_tool	<i>Depositing and Ingesting Digital Objects</i>	Curator	Web archiving, harvesting, consistency check	https://sbforge.org/display/NAS/NetarchiveSuite;jsessionid=13C5C9FAB386702BF776522C3E345DEE
NLNZ Metadata Extraction Tool	http://www.dcc.ac.uk/search/node/NLNLZ%20Metadata%20Extraction%20Tool%20type%3Ares_tool	<i>Depositing and Ingesting Digital Objects</i>	Curator	Metadata extraction, digital file, XML	http://www.natlib.govt.nz/services/get-advice/digital-libraries/metadata-extraction-tool/?searchterm=metadata%20extraction
PREMIS in METS Toolbox	http://www.dcc.ac.uk/search/node/PREMIS%20in%20METS%20Toolbox%20type%3Ares_tool	<i>Depositing and Ingesting Digital Objects</i>	Curator	PRESMIS, METS, validation, descriptor	http://pim.fcla.edu/
The BagIt Library	http://www.dcc.ac.uk/search/node/The%20BagIt%20Library%20%20type%3Ares_tool	<i>Depositing and Ingesting Digital Objects</i>	Curator	Packaging, digital container,	http://sourceforge.net/projects/loc-xferutils/
Web Curator Tool	http://www.dcc.ac.uk/search/node/Web%20Curator%20Tool%20type%3Ares_tool	<i>Depositing and Ingesting Digital Objects</i>	Curator	Web archiving, ARC format	http://webcurator.sourceforge.net/
Xena Software	http://www.dcc.ac.uk/search/node/Xena%20Software%20type%3Ares_tool	<i>Depositing and Ingesting Digital Objects</i>	Curator	Digital preservation, transformation, conversion, open format	http://xena.sourceforge.net/
ICA-Atom	http://www.dcc.ac.uk/search/node/ICA-Atom%20type%3Ares_tool	<i>Archiving and Preserving Information Packages</i>	Curator	Standard description, archival holdings, publishing	http://ica-atom.org/
XArch	http://www.dcc.ac.uk/search/node/XArch%20type%3Ares_tool	<i>Archiving and Preserving Information Packages</i>	Curator	Merging, multiple versions, nested merge	http://xarch.sourceforge.net/

Tool	DCC Record	DCC Category	Target	Keywords	URL
CONTENTdm	http://www.dcc.ac.uk/search/node/CONTENTdm%20type%3Ares_tool	Archiving and Preserving Information Packages	Curator	Web server, discovery	http://www.contentdm.org/
Curators Workbench	http://www.dcc.ac.uk/search/node/Curators%20Workbench%20type%3Ares_tool	Archiving and Preserving Information Packages	Curator	Archiving, deposit, metadata organisation	https://github.com/UNC-Libraries/Curators-Workbench
D-Net	http://www.dcc.ac.uk/search/node/D-Net%20type%3Ares_tool	Archiving and Preserving Information Packages	Curator	Repository networking	http://www.d-net.research-infrastructures.eu/
Datecite	http://www.dcc.ac.uk/search/node/Datacite%20type%3Ares_tool	Archiving and Preserving Information Package	Curator	Data citation	http://datacite.org/
Dioscuri	http://www.dcc.ac.uk/search/node/Dioscuri%20type%3Ares_tool	Archiving and Preserving Information Package	Curator	Preservation, hardware emulator	http://dioscuri.sourceforge.net/dioscuri.html
Dspace	http://www.dcc.ac.uk/search/node/Dspace%20type%3Ares_tool	Archiving and Preserving Information Package	Curator	Repository system	http://dspace.org
Duraclouds	http://www.dcc.ac.uk/search/node/Duraclouds%20type%3Ares_tool		Curator	Cloud service, interface	http://www.duracloud.org/
Eprints	http://www.dcc.ac.uk/search/node/Eprints%20type%3Ares_tool		Curator	Repository system	http://www.eprints.org/
Fedora	http://www.dcc.ac.uk/search/node/Fedora%20type%3Ares_tool		Curator	Repository system	http://fedora-commons.org/
JHOVE	http://www.dcc.ac.uk/search/node/JHOVE%20type%3Ares_tool		Curator	Validation, digital object, format	http://hul.harvard.edu/jhove/
KEEP Emulation Framework	http://www.dcc.ac.uk/search/node/KEEP%20Emulation%20Framework%20type%3Ares_tool		Curator	Preservation, Software emulation,	http://emuframework.sourceforge.net/about.html
LOCKSS	http://www.dcc.ac.uk/search/node/LOCKSS%20type%3Ares_tool		Curator	Subscription content, digital collections	http://lockss.org
MIXED	http://www.dcc.ac.uk/search/node/MIXED%20type%3Ares_tool		Curator	Data transformation, tabular data	https://sites.google.com/a/datanetworkservice.nl/mixed/
Creative Commons tools	http://www.dcc.ac.uk/search/node/Creative%20Commonstools%20type%3Ares_tool	Managing and Administering Repositories	Curator	Copyright, licensing	http://creativecommons.org/
OpenDOAR	http://www.dcc.ac.uk/search/node/OpenDOAR%20type%3Ares_tool	Managing and Administering Repositories	Curator	Repositories catalogue	http://www.opendoar.org/index.html
Tufts Submission-Agreement Builder Tool	http://www.dcc.ac.uk/search/node/Tufts%20Submission-Agreement%20Builder%20Tool%20ty	Managing and Administering Repositories	Curator	Submission agreement creation	http://sites.tufts.edu/dca/about-us/research-initiatives/taper-tufts-accessioning-program-for-electronic-records/

Tool	DCC Record	DCC Category	Target	Keywords	URL
	pe%3Ares_tool				

Additionally RDM tools were identified locally and through Jisc MRD02 Programme dissemination and were further categorised.

Table 2. Table of project and Programme identified RDM tools.

Tool	Category	Target	Summary	Keyword	URL
DMPOnline v3	Planning	Researcher	Online template system for data management planning.	Funders, policy, planning, data management plan, template	https://dmponline.dcc.ac.uk/
CARDIO	Audit/survey	Service Managers	RDM infrastructure assessment	Self-assessment, infrastructure maturity	http://cardio.dcc.ac.uk/
EduServ cloud	Storage	Researcher	Cloud storage infrastructure as a service	Cloud	http://www.eduserv.org.uk/
Datacite	Archiving/citation	Researcher	Assigns persistent identifiers to datasets to allow greater ease of citing datasets as sources in publications.	Citation, DOI, persistent citation	http://datacite.org/
DAF (Digital asset framework)	Audit/survey	Service Managers	Research data assets assessment/survey.	Self-assessment, audit	http://www.dcc.ac.uk/resources/repository-audit-and-assessment/data-asset-framework
Simple Web-service Offering Repository Deposit (SWORD)	Standard/protocol	Repository/System Managers	Research data/metadata transfer tool	Data transfer	http://swordapp.org/about/
ViDass	Online cloud service and RDM	Researchers	Facilitation of research database re-use.	Relational database	http://vidaas.oucs.ox.ac.uk/
BRISKit (see below also)	Clinical data hosting service	Researcher	BRISKit will develop a national shared service brokered by JANET to host, implement and deploy biomedical research database applications that support the management and integration of tissue samples with clinical data and electronic patient records	Tissue samples, clinical studies, NHS	http://www2.le.ac.uk/offices/itservices/resources/cs/psoproject-websites/brisskit
CiviCRM	<i>Customer relationship management</i>	Researcher	Web-based, internationalised suite of computer software for constituency relationship management.	Clinical data, NHS, record keeping	http://civicrm.org/
REDCap	Build and manage data	Researcher	Secure web application (REDCap) designed exclusively to support data	Clinical data, NHS, record keeping	http://project-redcap.org/

Tool	Category	Target	Summary	Keyword	URL
	bases		capture for research studies		
OBiBa Onyx	Data storage management and Application server Intranet	Researcher	Onyx stores the data collected during the different stages centrally and makes it available to all workstations.	Clinical data, NHS, record keeping	http://www.obiba.org/node/3
i2b2	Research data warehouse	Researcher		Clinical data, NHS	https://www.i2b2.org/
KRDS (Keeping research data safe)/ Beagrie value tool chain	Cost-benefit analysis	Curator Researcher	Provides a platform from which organisations can identify, analyse and communicate the benefits of investing in research data management and storage. The Beagrie Value Chain represents a more sophisticated version of the KRDS Benefits Framework, and the two can be used together.	Benefits, evaluation	http://www.beagrie.com/krds.php
Metadata extractor	Preservation of metadata	Curator	Programmatically extract preservation metadata from a range of file formats like PDF documents, image files, sound files Microsoft office documents, and many others	Metadata	http://meta-extractor.sourceforge.net/
Zenity	<i>Managing and Administering Repositories</i>	Curator	Zenity is a research output repository platform that provides a suite of building blocks, tools, and services that help to create and maintain your organization's digital library ecosystem.	Research outputs	http://research.microsoft.com/en-us/projects/zenity/
DataStage/ DataFlow	Local file management	Researchers	Secure personalized 'local' file management environment for use at the research group level, appearing as a mapped drive on the end-user's computer	File management, data collaboration, data deposit	http://www.dataflow.ox.ac.uk/index.php/about/about-datastage
MyLabBook	Active data	Researcher	Open source online laboratory notebook	Digital lab book, documentation	http://mylabbook.org/
CARMEN	Data curation	Researchers	CARMEN is a web based data management project based on SRB (Storage Resource Broker)	Neuroscience. Data access, data curation	http://www.dcc.ac.uk/resources/case-studies/carmen-0
rsnapshot	Backup	Researcher	File system snapshot utility for making backups of local	Linux, snapshot, backup	http://rsnapshot.org/
CasaXPS	Powerful	Researcher	CasaXPS software for conversion to	Data transformation	http://www.casaxps.com/

Tool	Category	Target	Summary	Keyword	URL
	analysis techniques for both spectral and imaging data.		the ISO standard format results to be easily exchanged.		
ArcGIS	Cloud server system for the data.	Researcher	A complete system for designing and managing solutions through the application of geographic knowledge.	Geo data	http://www.esri.com/software/arcgis/features.html
Dotmatics Browser and Gateway	Powerful querying and reporting tool.	Researcher	Integrates data from any database whether it is chemical, biological, technical etc. Create and share lists, queries and forms across projects or research teams. Combines with other Dotmatics' solutions to provide a complete and seamless data management and visualisation system.	Data management, visualisation	http://www.dotmatics.com/products/browser/
Dropbox	Managing Active Research Data	Researchers	Main function in relation to RDM is storage. Any file saved to Dropbox will automatically be saved to all of that user's devices – this provides multiple copies of the data and prevents problems with versioning. Also gives user the ability to share data easily with other team members so that data does not need to be stored in emails or on USB drives.	Data sharing, data access	https://www.dropbox.com/
SparkleShare	Managing Active Research Data	Researcher	'Dropbox' with Git functions. Discussed at Jisc MRD hack day.	Data sharing	http://sparkleshare.org/
<i>Recent tools noted post original review</i>					
ZendTo	Active Data	Researcher	Secure file transfer.	Security, large files, data sharing	http://zend.to/
ISA tools	Metadata	Researcher	Metadata/scientific context tool.	Scientific context, metadata, data re-use	http://www.isa-tools.org/
CKAN	Data publishing/hosting	Researcher	Data publishing/repository tool.	Repository	http://ckan.org/
DMP20	Planning	Researcher	Simple data management planning tool.	Data management planning	http://www.miidi.org:8040/dmp/