

Assessment of product against OAIS compliance requirements

Product name: Repository for Authentic Digital Objects (RODA)

Sources consulted: Characteristics and Technical Requirements Whitepaper, 04/10/2013, 'A service-oriented repository to preserve authentic digital objects'

Date of assessment: 17/10/2013

Assessment performed by: Christopher Fryer, Northumberland Estates

Scoring: Use 0 to 3 range, where the requirements are: not met (0), partially met (1), fully met (2), exceeded (3).

Score weighting uses Craig Borowsowich's *Constructing a Weighted Matrix* (2006).

TOTAL = Weight x Score.

Requirement	Necessity	Met?	How met	Comments	Weight	Score	TOTAL
001: ingest mixed content	Essential	Y	Capable of ingesting text documents, raster images, relational databases, video, and audio. A plug-in mechanism enables RODA to easily support additional formats.		5	2	10
002: import records from EDRMS	Conditional	Y	Integration with third-party document management software via SOAP Services or client API.	<i>No explicit mention of EDRMS. Integration would have to be demonstrated and outputs verified. No mention of metadata integration.</i>	2	1	2
003: AIP creation	Essential	Y	When the ingest process terminates, SIPs are transformed into AIPs.		5	2	10

Requirement	Necessity	Met?	How met	Comments	Weight	Score	TOTAL
004: UID assignment	Essential	?	Not known	<i>Not explicitly stated, but likely that this is performed.</i>	5	1	5
005: virus and quarantine	Essential	Y	SIPs are checked for viruses. Clam anti-virus is being used under the hood to perform this task.		5	2	10
006: file format identification	Essential	Y	RODA invokes the file Format Identification service provided by CRIB.		5	2	10
007: validation	Essential	Y	Process for validation is outlined in literature.	<i>Only JHOVE and DROID are referenced</i>	5	1	5
008: checksums	Essential	Y	Files included in the SIP are accompanied by a checksum string.		5	2	10
009: technical metadata extraction	Essential	Y	Ingest is composed by a configurable multi-step workflow that validates submitted information and also extracts technical metadata from ingested files.		5	2	10
010: descriptive metadata	Essential	Y	Descriptive metadata is based on the International Standard for Archival Description (ISADg) and is supported by the EAD/XML standard.		5	2	10
011: preservation metadata	Essential	Y	RODA follows open standards using PREMIS for preservation metadata.		5	2	10
012: permanent storage	Essential	Y	Data storage is managed by Fedora Commons. Data is stored on the file system separately from the metadata.		5	2	10
013: managed storage	Essential	?	Elementary tasks can be performed at the Data	<i>Further detail required in order to fulfil this requirement.</i>	5	1	5

Requirement	Necessity	Met?	How met	Comments	Weight	Score	TOTAL
			Management and Archival Storage level. Examples of such services are ingest, add a data stream to an object, get data stream, purge an object, find objects and list data streams.				
014: error-checking	Essential	N	No mention of ability to perform integrity checking on storage.	<i>Further details required as this functionality is not clear from the literature.</i>	5	0	0
015: AIP to DIP transformation	Essential	Y	AIPs can be transformed to DIPs and delivered to the consumer.		5	2	10
016: technical metadata in database	Essential	Y	Fedora implements the common digital repository features, as digital object (and metadata) storage abstraction and relationships between objects.	<i>No explicit mention of technical metadata</i>	5	2	10
017: descriptive metadata in database	Essential	Y	Fedora implements the common digital repository features, as digital object (and metadata) storage abstraction and relationships between objects.		5	2	10
018: preservation metadata in database	Essential	Y	Fedora implements the common digital repository features, as digital object (and metadata) storage abstraction and relationships between objects.	<i>No explicit mention of preservation metadata</i>	5	2	10
019: rights metadata in database	Conditional	Y	Records are organized hierarchically but are kept separately within the Fedora Commons content model. Relationships between metadata are created using Fedora RDF.	<i>No explicit mention of rights metadata</i>	2	2	4

Requirement	Necessity	Met?	How met	Comments	Weight	Score	TOTAL
020: database ease of use	Essential	?		<i>We can't tell from the literature and the archivist would have to verify this.</i>	5	0	0
021: database queries on objects and events	Essential	Y	RODA Core Services are responsible for carrying out complex tasks that compose the ingest workflow, querying the repository in advanced and abstract ways and carrying out administrative functions.	<i>Would have to be demonstrated to display full functionality. Specific queries need to be detailed.</i>	5	1	5
022: database updates	Essential	Y	Administration components were developed to allow curators to edit the descriptive metadata.		5	2	10
023: database reports	Essential	Y	RODA includes advanced administration features such as reporting.		5	2	10
024: user requests	Conditional	?		<i>No explicit information found.</i>	2	0	0
025: inventories and reports	Essential	?		<i>No explicit information found.</i>	5	0	0
026: audit trails	Conditional	Y	All actions performed in the repository by any user are logged for security reasons.		2	2	4
027: automated agreements	Optional	?		<i>No explicit information found.</i>	0	0	0
028: rights policies	Conditional	?		<i>No explicit information found.</i>	2	0	0
029: migration	Essential	Y	Migration processes can be initiated. Preservation planning is supported by a recommendation service that makes educated decisions on the best migration options available and takes into consideration the individual		5	2	10

Requirement	Necessity	Met?	How met	Comments	Weight	Score	TOTAL
			requirements of each client institution.				
030: policy enactment	Optional	Y	See 029		0	2	2
031: template design	Optional	?		<i>Future work will focus on the development specification of a long-term preservation format/schema</i>	0	1	1
032: DIP creation	Essential	Y	Creates a DIP for the consumer	<i>Unsure if the DIP contains corresponding METS file and how users interact and access DIP.</i>	5	1	5
033: DIP delivery	Essential	Y	RODA provides a dashboard to allow the browsing, searching, viewing and downloading of DIP's.	<i>Partially met due to lack of further information on DIP delivery.</i>	5	1	5
034: AIP to DIP audit	Essential	?		<i>Functionality not explicitly mentioned.</i>	5	0	0
035: access rights	Essential	Y	Users can be created, modified and deleted.		5	2	10
036: managed access	Essential	Y	Accounts for Access providing different ways to search and navigate available metadata as well as visualizing/downloading stored digital objects.		5	2	10
037: consumer front end	Essential	Y	RODA provides a dashboard to allow the browsing, searching, viewing and downloading of DIP's.		5	2	10
038: finding aid support	Essential	?	Not known	<i>No explicit mention of integration with access systems.</i>	5	0	0
039: representations	Essential	Y	Download any manifestation (representation) of an entire information object or selected file.		5	2	10
040: readers and	Essential	?	Not known		5	0	0

Requirement	Necessity	Met?	How met	Comments	Weight	Score	TOTAL
access tools							
				<i>TOTAL SCORE:</i>		54	253