URL	MetaArchive http://metaarchive.org	DuraCloud http://duracloud.org/	Preservica http://preservica.com/	DPN http://dpn.org/	APTrust http://aptrust.org/	Chronopolis https://library.ucsd. edu/chronopolis/about/	Arkivum http://arkivum.com/	Texas Digital Library	Ex Libris Rosetta http://www.exlibrisgroup. com/category/RosettaOverview
Governance Mission / focus / vision		Cloud storage service heated by DursSpace is unsSpace is an independent 501 (r)(3) net-for- profit organization providing leadership and innovation for open teachership and innovation for open teachership and innovation for open teachership and teachership and academic, section access to digital data. We collaborate with academic, section access to academic, section access to supporting projects and creating services to help ensure that current and future generations have access to our collective digital heritage. Our values are expressed in our organizational bytine. *Committed to ur digital future.* Mission of DuraCloud service is compatible with this overarching mission of DuraSpace.	European National Archives, 18 US Ślate Archives, Yale University and HSBC, to name a few. Available on premise or in the cloud, Preservica's award-winning digital preservation and access software is a complete, standards- based (OAIS ISO 14721) trusted repository.	the record of human endeavor in spite of, or perhaps because of, whatever will happen next. As an emblematic part of institutional identity, the potential loss of core online academic collections that are part of what an institution means could be classiforptic. Oral history collections, born digital arthorits, historic journals, theses, isosertations, media and fragile digitzations of ancient documental antiquites are examples of irreplacemental antiquites are examples of irreplacemental institutional collection is lost? Will a critical building block of knowledge be lost forever? It is essential for scholars of the future that action is taken now to protect digital assess that are at	support administrative access, augment the preservation strategies of individual institutions, and provide a firm foundation for exploring future access services. APTrust will leverage investments that institutions are making separately and expects to accelerate digital preservation as part of the newly formed Digital Preservation Network (DPN)	digital data collections. It accomplishes this through the development and implementation of a preservation data grid and its supporting human, policy, and technological infrastructure. Chronopolisi is intended as a model for valued digital collections with long-term impact from a variety of academic disciplines. The	organisations in higher education, healthcare, life sciences, and digital hertage. These solutions assure the long-term value, trustworthiness and authenticity of data irrespective of whether it's terabytes or petabytes being preserved, and irrespective of whether the retention period is years.	teaching, and digital curation efforts at our member institutions Facilitate collaboration amongst our community and with external partners Connect local work to a global ecosystem of digital library efforts	Ex Libris Rosetta is an end-to-end digital asset management and preservation solution for libraries, archives, museums and other institutions, enabling you to safely and securely collect, manage, publish, deliver, and you can be a securely collect, manage, publish, deliver, and you can be a securely collect, manage, publish, deliver, and you can be a securely collect, and the secure of the s
Values statement		Our values are expressed in our organizational byline, "Committed to our digital thurs". Misson of DuraCloud service is compatible with this overarching mission of the output of the ou		No values statement as of 2/6/2016, but drafting one with several partnering organizations.	The Academic Preservation Trust (APTrust) consortium is committed to the creation and management of a preservation repository that management of a preservation repository that management of a preservation repository that from many institutions. Solutions will be based on respected open-source technologies that are scalable, sustainable, and provide audit functionality.  As part of a national strategy for long-term preservation, the APTrust repository will serve as replicating node for the Digital Preservation Network (DPN). At the local level, APTrust will participating members, including disaster recovery services. By leveraging the expertise and resources of multiple institutions, APTrust will realize economies of scale and increase value for all members.	Chronopolis starts with the realization that partnership and collaboration among a specified group of like organizations is necessary to insure continuity for the life-time of a collection. Thus it has been designed with multiple organizations providing the preservation infrastructure, tool and software development, and management. This is key not only to providing a robust preservation substantial providing a robust preservation substantials organizational model, not dependent on any one group.	portaio.	no	Preserves your digital content for the long term when the content, in every format content, in every format cases we called to meet your asset
Organization type / structure		Non-profit.	Business / For-profit company	non-profit, Limited Liability Company	APTrust is legally constituted as part of the University of Virginia. Activities and operating guidelines of APTrust are subject to the rules and oplicies of the University of Virginia, as are the contracts between individual member institutions and the University of Virginia. In the case of conflicts between APTrust operating guidelines and member institution contracts, contracts take precedence	Program management is based at UCSD. The National Center for Atmospheric Research (NGAR) and University of Maryland Institute for Advanced Computer Studies (UMIACS) are partners.	private Business / For-profit company. Venture capital backed for just over 6 years	membership organization, Legally Consittuted as part of UT Austing	Business / For-profit company
Leadership Form and Function	for overall management, coordination, communication, and reporting efforts.  The Steering Committee consists of one representative from each Sustaining Member. Decisions made by the Steering Committee are made by simple majority vote.	people who oversee and work with the software at DuraSpace.		Shared Governance - Board of Directors that includes university presidents, chancellors, ClOs, librarians	Shared Governance - The Governing Board is the primary governing body for APT inst: however, member institutions contribute actively to governance through input galaried by the Board. The Board defines and recommends strategic direction to help meet operational and strategic goals and provides advice and oversight for the budget and finances. The Board meets quarterly in person or by phone and holds an annual meeting of the Board with all institutional members, governing board made up of library deans / Uts from member institutions.	Pis at each of the three institions with UCSD being the lead.	investors and directors and non-executives, and then senior management	director, plus governing board of deans and elected at large reps	development team.
Committees / Working groups / User groups	Sub-committees include Preservation, Content, Technical, and Outreach committees tasked with strengthening the capacity and operations of the preservation network and the Membership community. Each committee is led by a chair drawn from the general membership. Working Groups consist of a small subset of members performing focused work over a limited period of time in order to produce a tangible outcome of individual member institutions wherever applicable	Nothing official. There is a Duradoud mailing list.	Online / virtual and in-person meetings for User Group / customers: In-person meetings usually held in conjunction with conferences. Preservica User Group http://preservica.com/preservica.com/preservica.user-group/. Global user group and N.A. User Group. Stand alone three day event that serves as an annual user group meeting. Also, there are some local area user groups. For example, a Boston area user group meets a few times a year.	Membership Committee, Preservation Metadata Standards Committee Pricing	Advisory Committee, Interest Groups: Bagging Best Practices. Compute/Stroge Allemantwes, TDR Working Group, Communications group, working groups have specific task, and once they finish that task, they disband	No		ETD Vireo users group, train the trainer group on D-Space, data repository steering committee, awards committee, conference committee, TDR standing committee	User group meets annually face to face Working groups on various topics communciate regulary via email and web conferences.
Support and Training									

	MetaArchive	DuraCloud	Preservica	DPN	APTrust	Chronopolis	Arkivum	Texas Digital Library	Ex Libris Rosetta
Member / Customer orientation and training	New member orientation usually consist of 2-3 sessions to train new members on how to prepare for and carry out ingests, use technical documentation, and how to get involved with the membership community	There is. The tool is kept very simple. Provide the videos and a the customer to provide an overview and answer any specific questions. Affeatcular Systems provides training and support for ArchivesDirect which is a		via dura-space and AP-Trust. WOrking with AVPreserve to create curriculum, partnering with educopia to make curriculum avalailable and evaluate its effectiveness. DPN is more of a catalyst organization rather than educational organization. Jeenflying and articulating problems and bringing resources to them.	combination of documentation in wiki and google groups- in the process of streamlining , plus in- person and group training by fellow members, and finally AP Trust staff does oniste	Customers purchase services through buraCloud who are responsible for providing training and instruction.	depends on what customers have purchased, for data archiving solution, we store customers data for them and guarantee data integrity. customer receives appliance, and then arkivum manages software installation and management. Also have Perpetua product for cultural memory which includes some trailing in partnership with archivematica, AIOM, etc. and	some staff do training with new members and new users. coordinate training events. POWRR digital preservation workships	Yes, every customer receives training as part of implementation, on-site or online
Webinar trainings	Yes, but currently not regular or frequently	combination of Archivematica and DuraCloud.  http://www.duracloud. org/presentations/webinars	Yes, dedicated customer training as part of onb Very active webinar series, including multiple collaborative series with professional	committed to doing general webinars on digital preservation.	no	Yes	then there are webinars and ongoing training  Yes	Yes	depending on customer preference. Also, video training is provided via website.
In-person workshops	Yes, but currently not regular or frequently	Workshops are provided on an ad hoc basis, as new features are	associations (COSA/SERI, ARA/IRMS) http: //preservica.com/resources/webinars/. Briefings and workshops targeted at specific users http://preservica.com/category/events/.		informal interactive hands-on training on site	No	Yes. on-site workshops both pre-sale and post-sale. a	Yes	Yes
		employed. For example, Open Repositories workshop provided two years ago.	Provide at conferences and events. For example, SAA.						Yes
Video tutorials	No	https://www.youtube. com/user/duracloudvideos	https://www.youtube. com/channel/UC21mQfv6pAW5L48IzAaNcVw		some videos on youtube, but starting to get dated	Yes, youtube tutorials for DuraCloud.	Yes		Yes, available at Ex Libris online training center. Knowledge center contains all product documentation that is open to world, all products.
Help Desk / Troubleshooting assistance	Dedicated help desk for members at support@metaarchive.org	https://duraspace.zendesk. com/hc/en- us/categories/200045497 DuraCloud. Help desk and troubleshooting is included in the subscription. People who provide support are the same people who provide the tool and help people with the implementation.	http://preservica.com/support/	Informally through DPN employees on legal agreements, formally through APTrust or DuraSpace on ingest.	help@aptrust.org plus emails directly to Bradley and especially to Andrew	Yes	Yes, phone line and email help desk ticketing system	Yes	Yes, 24X7
Documentation									
Open documentation	Somewhat. Technical Specifications for hardware requirements available on website. Members-only wiki provides in depth technical resources	https://wiki.duraspace. org/display/DURACLOUD/DuraCl oud	No	Yes. technical specs on website	https://sites.google.com/a/aptrust.org/member- wiki/home	Not public. Detailed technical documentation is not available, but overviews available.	No. But customers have access to documentation . not public	Yes	Yes. http://knowledge.exlibrisgroup. com/Rosetta/Product_Documentation
Knowledge base of common issues	Not specifically, but similar content available on wiki	No, but have documentation available on wiki.	Yes, FAQ, but available only to subscribers.	Yes. FAQ google group. https://groups.google. com/forum/#forum/dpn-faq	on website, in process of refining	Not public	No but small collection of case studies, white papers http: //arkivum.com/resources/. Customers have access to FAQs and Known Issues.	no. gone throug a few in the past, but not right now. subject to change	Yes, available on portal. Support team documentation available to all customers.
Community Facilitation									
Community / User / Customer focused staff position	Yes, Preservation Communities Manager for Educopia works half time with MetaArchive	Yes, it is Heather Greer Klein, the Services Coordinator.	Yes	Mary is CEO as well as community relations. Hopefully hiring another person soon.	Bradley Daigle, Content and Strategic Expert	Yes, Sibyl for Chronopolis, and Heather for DuraCloud.	All customers have account manager. plus sales team.	marketing coordinator position that also coordinates committees and groups, and managing conferencemore of a committee coordinator. Soon to hire communications coordinator. Also have a services manager	Yes. Dedicated Rosetta support team and the Rosetta product manager.
Community discussion and product updates	Monthly community calls focused on topical discussions provide opportunity for regular communication / interaction amongs community members. Community Manager regularly communicates with members in relation to committee activities, ingests, and technical troubleshooting	mailing list that includes updates. Heather reaches out 90 days		mailing lists (below)	closed email lists, open email lists, contact groups (groups and sub-groups) receive targeted communication. board works by phone a lot	Announcements via DuraSpace newsletter	. no. customers can discuss issues or feature requests but not a forum for customers . they have about 100 customers some are direct, some are partners		Yes, updates and new features, etc. are posted to customer mailing list, whoch serves also as as a mean for discussion between customers on usage, preservation issues, etc.
Mailing List for members / users	Yes, members-only mailing list	https://groups.google. com/forum/#!forum/duracloud- users	User Portal / Forums https://usergroup. preservica.com/login?redirect_to=/forums/	General mailing list for anyone, also google groups for various committees	https://groups.google.com/forum/#!forum/aptrust- community	. No	Yes	Yes	Yes http://el-una.org/mailing-lists/rosetta- mailing-lists/
In-person member / user meetings	In-person annual Steering Committee meeting	In-person, annual DuraSpace Summit.	http://preservica.com/category/user-group- gatherings/	Monthly calls and annual in-person meetings	Two in-person member meetings in Fall and Spring	Not at this time.	no. except for one-on-one	Yes. monthly conference calls, and yearly conference	Yes, annually face-to-face. Also quarterly working group web meetings. Meetings with advisory groups as needed.
Outreach and Communications Social media presence	https://bwitter.com/metaarchive	https://wilter.com/DuraCloud	https://twitter.com/greservica.(corporate):.chief. tech officer also has active twitter account	https://twitter.com/DPNdotOrg	twitter account	DuraCloud presence.	twitter, blog, youtube, linked in, maybe vimeo, twitter is the main one		Twitter, Facebook, Linkedin and Youtube presence as part of Ex Libris; not specific to Rosetta. Three additional websites: Ideas Exchange—platform for customers to suggest new features for products. Voting platform, http://diseas.extibrisgroup.com/forums/308/179-rosetts justices, and the superior for fortices of the common superior for fortices. The common superior for fortices of the chemical implementation. Where APIs are available, integration information, technical blog posts and forums—https://developers.exilibrisgroup.com/rosetta.
			IMPARTMINEL ANTHOUGHESELVEUULI		http://aptrust.org/news/category/presentations	https://library.ucsd.	Yes. medical conferences to	annual, annual conference, plus	Yes, present at PASIG, IPres, IDCC, and
Conference presentations (sponsorship, exhibitor, presenters?)	Yes, active presence at a variety of conferences	At a variety of conferences, OR, PASIG, SAA, DPLA, CNI, have exhibits at conferences as well.	https://www.linkedin.com/company/preservica Yes, very active in sponsoring conferences and presenting	Yes, active presence	IND. PARIUS OLD TERMS CATEGORY (A TESETIATIONS	edu/chronopolis/publications/index.html https://library.ucsd. edu/chronopolis/presentations/index.html	discuss the need for compliance data archiving. Digitization events, Digital preservation coalition, IDCC, and sector-based conferences. also sponsorship and exhibiting at sector-based conferences.	DLF, RDAP, Open Repositories, TLA, US-ETDA, Texas ETD, LITA	others, extensive sponsorship, exhibitor

	MetaArchive	DuraCloud	Preservica	DPN	APTrust	Chronopolis	Arkivum	Texas Digital Library	Ex Libris Rosetta
Marketing									
Promotion / advertising in professional association forums	No	Exhibiting at conferences but mostly word of mouth at this point.	Yes, conference participation, events, webinars, government records organization	no really. published a few flyers. Co-sponsored conferences like PASIG and Digital		Promotional materials are being developed. More through conference	events, press releases, work with range of analysts. social	no	Yes. Just published white paper on preservation that is being shared widely
		Many of users are members of		Preservation 2016		presentations than through vendor booths.	media, website to market their		via Google and LinkedIn.
		DuraSpace.				Service is primarily for UCSD but offering out to other institutions.	stuff		
						out to outer institutions.			
Membership									
Organization types	Currently academic libraries, public	All kinds but mostly cultural		Universities, other consortia, one commerical	academic libraries, all happen to be ARL	Anyone. Not a membership organization.	Markets service to health care	higher-ed institutions, currently	Mostly academic libraries and cultural
3,	libraries, archives, museums, library	heritage types of institutions.		member (figshare), future in public libraries and	libraries. Working on different membership	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	financial services, heritage,	subject to change	heritage organizations (national and state
	consortia	Some for-profit business but that isn't the core.	Customers range from national archives to publi	cultural heritage organizations	model, that may include public libraries and liberal arts		and higher education industries		libraries, etc.). Also arvhices
Numbers	22 members, over 60 participating	ion care core.	Castornal angle normational arounces to passi	maybe 53people come and go	16	i		22. stable and steadily growing	
	institutions (Collaborative members			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Hard to quantify. Primarily UCSD users,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	include multiple institutions)	Under 200.  DuraCloud plus Chronopolis is	100+			but also NCAR and other users.			250+
		DuraCloud Vault. (duracloudvault.							
		org)							
Additional categories from NDSA Levels of Preservation to be reviewed for possible inclusion and perhaps redistributed throughout other category themes above									
	Yes			Yes	Yes		Yes, format agnostic for data	Yes	
Supports multiple formats (Storage level 4)		Yes, all formats	Yes			Yes	archiving, archivematica does file format recognition		Yes, any type of format
(Storage level 4)	Yes	res, air iornats	res	Yes	Yes	res		Yes	res, any type of format
	l			· <del></del>			UK. south and north. several		
							100 miles apart, by different operators, plus a 3rd copy		
							offline. in a different location.		
							also allows exit strategy for customers, normally with		
L							company called DRS, but it		L
Uses separate geographic locations with different disaster threats							could be at the customer's site. MOMA for example uses their		Rosetta is an on premise solution, up to customer to provide replication and
(Storage level 4)		Yes	Depending on version of product using, geograp	d .		Yes	system, but usually locally		storage.
	Yes	Yes, as long as what we are		N/A	to a limited extent at node level, but Amazon			Yes	
		referring to is that content is stored in the cloud. Part of point of			Glacier does not document		on behalf of customers, so customers don't have to worry		
System supports documentation of		DuraCloud is that you don't have					about it		
storage media and what is needed to use them		to talk to all the different storage systems. Document what storage							Don't provide storage, customer can plug- in any storage they like. Provide
(Storage Level 2)		systems are used.	Yes, users need no awareness of the storage m	•		Yes			documentation for how to do this.
Obsolescence monitoring process for	Yes, regular storage media refresh			Yes- at node level	Yes		Yes	Yes	
storage system and media (Storage Level 3)	cycle based on Technical Specifications	Leave that to storage vendors (Amazon and others).	Yes, one of main functions is to monitor content			Yes			Storage is monitored by the customer.
	Yes	,		Yes	Yes		Yes	it depends on the preservation	Yes, during ingest and at any interval a
								service. Yes to Amazon S3.	customer decides on. Comes with algorithms such as SHA-1, SHA-256.
Checks fixity of all content on ingest and								check fixity on ingest for glacier, but not ongoing for glacier. other	MD5 and CRC32 out of the box and any
at regular intervals						L.		services do ongoing fizitiy	additional algorithm can be added by
(Fixity and integrity levels 2 and 3)	No	Yes, check twice/year.	Yes, part of core functionality of system.	No programed that already bearaged dains	No if some did a disk image and didn't soon it it	Yes	No overathing is emblyed as	Not at the memort, but rethinking	customers.
	IND			post-hoc virus checking would change fixity.	No. if some did a disk image and didn't scan it, it would go in.		No. everything is archived as is, stored in bitstreams. unless	Not at the moment, but rethinking.	
Supports virus checks on all content		No. but Ausbires Disease do so this	V			No	it goes through the		Yes, and any virus checking software can
(Fixity and integrity level 3)	Yes	No, but ArchivesDirect does this.	Yes, also part of ingest process.	Yes	Yes	No	archivematica service Yes. and customers get check	Van	be added by customer.
	res	Yes, DuraCloud does this over		res	res		sum reports, plus there are	res	
maintains logs of fixity information		and above what the storage	V b-ldlibb lbd -llb .lblb			Yes	internal checksums on		Yes, any events are captured and
(Fixity and integrity level 3)	Yes	providers do.	Yes, held with each item and all activity in system	Yes	Yes - and depositors will soon be able to query	res	encrypted data sort of, they check intergrity	can, bu dont	preserved.
	res	Yes, DuraCloud does this over		res	their deposits to check their own fixity		before and after. THey have	Call, bu dolli	
Support auditing of fixity logs (Fixity and integrity level 3)		and above what the storage providers do.	Yes, can check fixity any time you want. Log file:			Yes	audtit logs that record fixity at different points		Yes.
(Fixity and integrity level 3)	Yes	Yes, DuraCloud does this over	res, can creck lixity any time you want. Log life.	Yes	Yes. Pull from different site	163	Yes	not at the moment, but rethinking.	165.
Supports corrupt data detection	1.65	and above what the storage			Tee. I all form affects one		100	not at the moment, but retaining.	
(Fixity and integrity level 3)		providers do.	Yes, checks to make sure that integrity is mainta			Yes	N .	N .	Yes.
Ability to replace/repair corrupted data (Fixity and integrity level 4)	Yes	Yes, replace from other storage.	Yes, predicated on idea that you have multiple s	Yes	Yes	Yes	Yes	Yes	Yes.
, , ,	Yes		,	No	maybe Andrew D. but that might change		No, especially because of	Yes	Rosetta provides user management and
ne one nemen has write seess - +!!		No one namen at user on did					escrow copy, which requires at		segraration by users and roles. Up to the
no one person has write access to all cop (Fixity and integrity level 4)	1	No one person at user end does. User writes to the primary copy.	Once something is stored in archive, it is read or	n d		Yes	least 2 people to get access to data		customer to decide who will get access to which conten.
Supports access restriction to individual	No	Yes, access restriction at		Yes	Yes		Yes	Yes	
files (Information Security Level 1)		DuraCloud level and by individual storage provider.	Security levels are very granular.			Yes			Yes
Maintain logs of who performed what	Yes	otorago provider.	Security revelo are very grantian.	Yes - recorded as premis events	Yes - premis events, and through admin	165	Yes	Yes. in logs	100
actions on files, including deletions and				Provide the second seco	interface	Have to check for each location, but there			
preservation actions (Information Security Level 3)		Yes.	Yes, all activity is logged in systems logs and de	4		is a limited (usually only 1) number of people who can do this at each site.			Yes, provenance events are all captured.
	Not sure			No central, it would be at the Node level if at all	Yes. could.	Have to check for each location, but there	Yes	No	,
audits security and access logs		Not be a sustained	V			is a limited (usually only 1) number of			V
(Information Security Level 4) Inventory of content and its storage	l <sub>vaa</sub>	Not in a systematic way.	Yes	controllized registry that of	Van through admin intr-f	people who can do this at each site.	Yes	Yes	Yes.
location	Yes			centralized registry that of content deposited in DPN	res, unough aumin intellace		100	100	
(Metadata Level 1)	1	Yes.	Yes, can run reports of content on storage locati			Yes			Yes.
Ensure backup and non-collocation of	Yes	Yes, of the inventory that is stored		Yes	Yes		Yes	Yes	
(Metadata Level 1)		in DuraCloud.	Yes, multiple storage copies that are geo-redund	4		Yes			Customer responsibility.
Will store administrative metadata	Yes			Yes	Yes		Yes	Yes	
(Metadata Level 2)	Van huturlandlan (1	Yes.	Yes	Man.	V	Yes	V	V	Yes.
Will store transformative metadata and log events	Yes, but migration / transformation is not a provided service	Will store any kind of metadata		Yes	Yes		Yes	Yes	
(Metadata Level 2)	provided dervice	that user wants to store.	Yes			Yes			Yes.
Will store standard technical and	Yes	MATERIAL STATE OF THE STATE OF		Yes	Yes		Yes	Yes	
descriptive metadata (Metadata Level 3)		Will store any kind of metadata that user wants to store.	Yes			Yes			Yes.
Will store standard preservation	Yes	2231 Wallio to diore.	· <del></del>	Yes	Yes		Yes	Yes	
metadata		Will store any kind of metadata	V			V			V
(Metadata Level 4)	No	that user wants to store.	Yes	No	Ne	Yes	Van	No	Yes.
Inventory of file formats in use (File formats Level 2)	ING	No.	Yes, database with registry of all formats that the	INU E	No	No	Yes	No	Yes, file format in use reporting.
	•								

	MetaArchive	DuraCloud	Preservica	DPN	APTrust	Chronopolis	Arkivum	Texas Digital Library	Ex Libris Rosetta
Monitor file format obsolescence issues (File formats Level 3)	No	No.	Yes.	No	No	No	Yes	No	Yes, as part of preservation planning model. Risks are based on knowledge base that is shared between customers and are documented there. Rosetta can run and scan the content for risks. Provide reports to customers. They can then take action to mitigate like migration or obsolence.
Perform format migrations, emulation and similar activities as needed (File formats Level 4)	No	No.	Yes, standard with product	No - not today. but up for discussion.	Could. but do not.	No	Through archivematica	No	Yes, provides the platform to so and customer should decide which preservation action to take.

	MetaArchive	DuraCloud	Preservica	DDN	APTrust	Chronopolis	Arkiyum	Texas Digital Library	Ex Libris Rosetta
URL	http://metaarchive.org/	http://duracloud.org/	http://preservica.com/	http://dpn.org/	http://aptrust.org/	https://library.ucsd.	http://arkivum.com/	Texas Digital Library	EX LIDIIS ROSEILA
	-					edu/chronopolis/infrastructure/index.html			
Functionality Setup and Configuration									
Setup and Configuration	Members hosting a server storage node are	Customers / users setup account and can then	Hosted "Cloud Edition" service requires no install			No installation needed - just needs to be	No installation needed, bu arkivum sends	Yes duracloud	
	provided instructions and support to setup server according to technical specifications to connect to network.	content or download and install DuraCloud Sync tool to automatically ingest content.	for main software (see ingest for details on other local software options). Enterprise Edition requires local server and storage (eg.Windows / Linux servers. Network Attached Storage, etc) and default MySQL database setup for metadata. For on premise version, can choose from a number of other databases as well: postgres, oracle, etc.			accessible via ssh or via DuraCloud	hardware (server) for customer to install		Yes, do installation for the customer.
Content Supports all file formats and/or content	V	Yes, all file formats and content types are	Yes, but users can customize file format	Yes	Yes		Yes	Yes	
types	Tes	supported	requirements and policies			Yes	Tes		Yes.
Supports all metadata schemas and structures	Yes	Yes, No specific requirements for metadata schemas and/or structures	Yes	Yes	Yes	Yes - utilizes Bagit and recommends supplementary collection data to be included.	Yes	Yes	Dublin Core is primary metadata schema. Others can be added as "source" metadata. Logical and physical structmaps can be added to the content.
Supports large files (e.g. audio / video)	Yes, but files may be broken into smaller chunks	Yes, files that are large will be transferred as chunks. No limit to file size.	Yes	Yes	Yes	Yes - currently working with large data archives	Yes	Yesmaybe 5gb.	Yes.
In a section of the s									
Ingest Ingest process	Public live web-based content is crawled and	Content can be added manually via drag and	Users can: 1. Upload content directly via web	DuraCloud software used to upload content		DuraCloud software used to upload content.	Customer moves files onto network file share.	GUI interface for uploading 1	Support manual ingest with web-based
rigesi process	T: Public vie Web-Based Content is Casivitic and ingested via LOCKSS plugins that are setup with specific parameters to automatically ingest content from repository websites (eng. CONTENT from, Dispace, Digital Commons, 2. Non-public content is made available to network on web server in simple directory listing (as Bagit bags if preferred)	drop to web dashboard or automatically via the DuraCloud Sync Tool https://wiki.duraspace.	Oset's cari. 1. Diputad content unequity was well dissibloard 2. via locally installed SIP Creator 3. via locally or network installed Transfer Agent 4. via CE Bulk Upload Service	buracioni sonware osed in upicad content	APTRust uses the bagit spec. Partners bag their	Upload only via the UCSD node.	Customer Indives lies unto hework lies state. Perpetua/Archivematica users gor throgh AWS	item at a time trhough duracloud installation, OR	Support infantial ingest with web-cases interface and semi-automatic ingest using csv, xmi, oil-jmh harvester and semi-automatic positions of the content is in the system in good ordern is in the system in good house a set of processes including decomposition, virus scanning, fixtly checks, format identification, technical metadate scraction, risk management, enrichment processes, and curation and assessment processes.
Supports ingest of Bagit bags	Yes, via LOCKSS plugin designed to ingest Bagit	Yes, but no specific info about Bag requirements. See them as just another file.	Yes	Specific requirements for configuring Bagit bags		Yes - specifics available to users	Yes. Suported by Archimetica by perpeuta and	Yes, but only for DPN ingest	
	bags setup with a specific MetaArchive profile	See them as just another file.		Special Equinities for chingsing bags bags for ingest https://docs.google.com/document/d/1JqKMFn9KfeIMAAEdOGQr6LZ PqNWx8Qubi12uoUXi2QU/edit	Yes		so does the archviing service		Yes.
Storage									
Multiple copies	Seven copies for all membership levels	Most subscription plans include two copies of content stored on two different cloud storage providers. Subscriptions plans for DPN and/or Chronopolis would include 3-4 copies total. https://wiki.duraspace.org/display/DURACLOUDDOC/DuraCloud+Stora	Cloud edition includes storage of one copy in Amazon S3 or Amazon Glacier. Enterprise Edition included options for local storage, and connector to Amazon S3, Glacier or Microsoft Azure	Three copies	6 total	Three copies	Three copies (Two UK stored data copies accessible online; One UK stored copy held offline with a thrid party ESCROW data holding company)	Recommend use of glacier and \$3, so 2 technologies and 2 locations. If you do both, you should have 6 copies, but it is abstracted so they cannot see it. If they are using DPN it is different.	Responsibility of customer. Can use
Geographic distribution of copies	Seven copies are distributed among multiple membership locations, including internationally	Most subscriptions plans include at least two copies that are geographically distributed, but details would depend on cloud storage provider locations.	Minimal. Cloud edition with Amazon S3 has option for copies distributed up to 10km apart. Enterprise Edition has more options for distribution by using multiple cloud storage services. No limit and can use any storage option:	Distribution via replication nodes	V votali	Distributed geographically among partner sites.	All stored in UK. Distributed in that one copy is held with third party company	west coast glacier and east coast S3.	ine required copies.
			tapes, AWS, Oracle, on premise, etc.		3 West coast, 3 East coast in a combination of S3				Customer's responsibility.
Regular fixity checks and monitoring	Yes, LOCKSS software includes regular automatic fixity checks and verification via voting and polling procedures	Yes, but details including frequency and mechanisms unclear https://wiki.duraspace. org/display/DURACLOUDDOC/DuraCloud+Features	Yes, files checked on an ongoing basis.		Roughly every 90 days.	Yes - all data in the system undergo ingegrity monitoring using the Audit Control Environment (ACE)	Yes, monthly "checks and maintenance updates" and "annual data retrieval and integrity checks"	currentity every 6 months on S3	Can be run by Rosetta or by the storage system and Rosetta will receive the results.
Hardware / infrastructure	All members (except for Preservation members who choose option to pay technology fee) purchase and host server storage node infrastructure to run LOCKSS software and replicate other member's content. The implementation of this server is flexible, but must meet current technical specifications. Additionally, as web server (focial or cloud-based) may be needed to stage content and make available for ingest into the storage network.	service providers. Run primarily an AWS but also have storage options from other vendors.	Cloud edition includes hosted infinastructure. Enterprise utilizes local infrastructure with connectors to cloud storage services. There are no specific requirements for choosing cloud storage over another option for enterprise version.		S3 is AWS's spinning disk, Glacier is not known. I	Hosted infrastructure via DuraCloud. Each location stores data on spinning disk.	"local" cloud hosting or managed service option	hosted via AWS,	Any storage can be used by and connected to Rosetta using the Storage Abstraction Layer.
Security									ISO 27001 certified
accum,	All member server caches communications are SSL encryption. Server caches setup include firewall and port settings to restrict access only to other servers in the network	encrypted. Application also requires login and access control settings.	Details unclear beyond access roles and rights. All users must authenticate with user name/password. User account is set up with series of roles which is equated to security tags. Users can only see what they are allowed to based on their roles and security tags and can be		AWS provides data integrity and siloing so that da		File encryption with customer supplied encryption keys	that which is inherent to Amazon, SSH. come back to this via email	DO 2100 1 Columb
			as granular as file level permissions.		provides data integrity and allowing 50 trial da	Dark archive that is password protected. Data at e	N .		
Access Restricted authenticated access	Only designated system administrators have user	Access control for users is managed via the	User roles and access rights can be managed at				Yes	Yes.	
restricted admenticated access	accounts for member server caches. No member is permitted to access another member's stored collections. Login pages are only accessible to	DuraCloud Management Console. Can also set access controls on users and groups of users. https://wiki.duraspace. org/display/DURACLOUDDOC/DuraCloud+Secur	collection and individual file level		Each member has their own credentials.	Yes	Tes	165.	Yes, either via internal authentication or integrated with external authentication (e.g. SAMI, LDAP, others)
Member / customer initiated content		Users utilized Retrieval tool to download content to local environment https://wiki.duraspace.	Universal Access module allows users to search,				they just copy files back out through fileshare. If	it can be. through duracloud	, , , , , , , ,
restoration	staff who establish a secure connection to a member's LOCKSS server that has copies of the requested content. An uncompressed ZIP package is constructed and made available for the member to download	to local environment https://wiki.duraspace. org/display/DURACLOUDDOC/DuraCloud+Retrie val+Tool. For DuraCloud Vault there is a user initiated restore from either DPN or Chronopolis.	Bulk download / restoration details not available. Many different levels of accessibility that can be		Through the APTrust API.	Yes	they are using Archivematica they can get IPs ou from there.	t interface. bu through TDL for S3 and Glacier	
Integration with other systems		Can be integrated as backup for DSpace, DSpace Direct, and Archive-Lt. Archivematica. DPN, Chronopolis. REST API that allows anyone to write an integration. Client tooling for the REST API in Ruby and Java.	Supports workflows to automate the bulk ingest of exported DSpace, PastFerfect, CONTENTon, SharePoint, Outlook and Gmall package and advanced Webste harvesting. Also supports interpreters have change greaters according to the property of the control of the control of management. Asset CALM and Ast, the for data management.				CRIS and publishing services such as EPrints, DSpace, Pure, Archivematica, and Figshare http://arkivum.com/integrations/	DuraCloud is stand-alone. goals for 2017 is to integrate more. Just hired services manager who will start working on strategy for integration	Yes, OAI-PMH - publishing and harvesting, APIs, SRUI and more. Integrated with LMSs such as Alma, Aleph, Voyager, Discovery systems such as Primo, Summon. Archival management systems. Many others. Information on APIs and integration points is available in the Developer Network - developers. exibirisgroup.com/rosetta.
					Any system since the main point of contact is the	Archivematica (through DuraCloud), DPN			com/rosetta.