WHELF - Library Management System Operational Requirements Annex 1 LMS (CONFIDENTIAL)

MR=Major Requirement, HDR=Highly Desirable Requirement, DR=Desirable Requirement

Ref. No.	Requirement	Requirement Rating	Supplier Response
1.0	High Level System Requirements	_{[1} , canning]	Сарриот посрещос
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	High Level System Requirements: Introduction		
	Support for integrated management of print, online and digital resources. Resource management tools to use a common configurable workflow engine to manage all types of materials regardless of format.		
	Resource discovery to enable library users to search across all resources in a single interface, but to also offer the ability to offer separate interfaces to search certain resource types or collections.		
	High Level System Requirements: General		
	Transactions throughout the system to be carried out with secure connections including but not limited to; • APIs • SIP2 • web forms	MR	
	Please explain in detail how your processes are carried out securely including any exceptions.		
	Provide Unicode support across the system, including the storage of records, the library user and administrative interfaces and in any mechanisms for data import and export. Explain in detail how Unicode support is provided.	MR	
	Describe URI link checking functionality across the system for testing URIs and reporting on broken links.	HDR	
	Support for storage and use of unique identifiers including a full range of Unicode characters with length up to 50 characters across the system e.g. library user barcodes, email addresses.	HDR	
	Provide a copy of the development roadmap for all areas of the system.	MR	
	Describe your process and strategy for product development.	DR	

	Web services to deliver fresh content where available rather than using a cached version.	HDR	
	The second secon		
	e.g. As a library user or library staff member if an interface is updated I want to see the latest		
	version in my browser, not an out of date cached version.		
		DR	
	e.g. as a Library Systems administrator I want to be able to manipulate my institution's software.		
	High Level System Requirements: Local systems		
	Integration in a transparent manner allowing ongoing updates to and from these systems using a	MR	
	data framework. The following student information systems are currently in use:		
	Banner (Ellucian)		
	QLSV4 Production (Unit 4)		
	Quercus Plus (CampusIT)		
	• SIMS (supplier needed)		
	• SITS: VISION (Tribal)		
	Please describe in detail how data would be imported from / exported to these student information		
	systems and also whether real-time or batch.		
	· · · · · · · · · · · · · · · · · · ·	MR	
	systems. Please describe in detail how this will be achieved (APIs, flat data files) and details of		
	any cost involved.		
	e.g. As a system manager at Aberystwyth University, I want to be able to use a generic process to		
	regularly import from our in house student information system so that I am able to keep our library		
	user records up to date.		
		MR	
	data framework. The following HR and Donor systems are currently in use:		
	• Agresso (Unit 4)		
	CoreHR (Core International)		
	Cyborg (SumTotal)		
	Northgate (supplier needed)		
	• Trent (Midland HR & Payroll Solutions)		
	IRIS Donor Strategy (Advanced NSP) - donor management		
	Please describe in detail how data would be imported from / exported to these HR and Donor		
	systems and also whether real-time or batch.		
L	T-North Control of the Control of th	I.	

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	MR	
data framework. The following finance systems are currently in use:		
• Agresso (Unit 4)		
Aptos (supplier needed)		
Coda (supplier needed)		
Cognos (supplier needed)		
Oracle EBS (Oracle)		
BluQube (Symmetry)		
• Sage (Sage)		
Opera II (Pegasus)		
Please describe in detail how data would be imported from / exported to these finance systems		
and also whether real-time or batch.		
Interoperability with resource discovery (inc. federated search) services. The following systems	MR	
are currently in use:		
Aquabrowser (ProQuest/Serial Solutions))		
• Discover (EBSCO)		
• Encore Synergy (Innovative Interfaces Inc)		
Metalib (ExLibris)		
• Primo (ExLibris)		
Summon (ProQuest/Serials Solutions)		
VUFind (VUFind)		
Please describe in detail integration with these systems including, but not limited to; how		
integration is achieved with library account information, placing requests (holds/recalls), viewing		
transactions and the bibliographic database, how metadata and availability data is published from		
the back end system to these resource discovery environments.		
	MR	
360Core (ProQuest/Serials Solutions) - Knowledge base	IVIIX	
GOKB (GOKB) - Knowledge base		
Knowledge Base Plus (JISC Collections) - Knowledge base SEX (Ext. ibris) - Knowledge base		
• SFX (ExLibris) - Knowledge base		
Electronic Resource Management (Innovative Interfaces Inc.) - Knowledge base		
Please describe in detail how your systems would be able to work with these knowledge bases		
should any institutions wish to use them with your systems.		

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The following recommender services are currently in use:	MR	
bX (ExLibris) - Recommender service		
LibraryThing - Recommender service		
Please describe in detail how your systems would be able to work with these recommender		
services.		
The following authentication services are currently in use;	MR	
IP based user authentication		
Library Card barcode and PIN		
• LDAP (Open)		
OpenAthensLA (Eduserv)		
• Shibboleth (Open)		
Central Authentication Service (CAS)		
(2.13)		
Please describe in detail how your systems would be able to work with these authentication		
services.		
The following proxy services are currently in use;	MR	
The relieffing prexy convices and currently in acce,		
EZProxy (OCLC) - cloud-hosted and locally deployed user authentication		
OpenAthensLA Proxy (Edusery)		
WAM Web Access Management (Innovative Interfaces Inc.)		
VVAINI VVED Access Management (inhovative interfaces inc.)		
Please describe in detail how your systems would be able to work with these proxy services.		
The following additional services/systems are currently in use;	MR	
•	IVIR	
• Fedora Commons Repository		
Blackboard (Blackboard) - VLE		
DSpace (DuraSpace) - Institutional Repository		
ePrints - Institutional Repository		
JUSP usage stats (JISC Collections) - management reporting		
Moodle (Open Source) - VLE		
Rebus:List (PTFS) - reading list management		
Talis Aspire (Talis) - reading list management		
Calm (Axiell) - archives management		
Please describe in detail how your systems would be able to work with these services.		
Ir lease describe in detail flow your systems would be able to work with these services.		

Territoria de la companya della companya della companya de la companya della comp	IND.
The following self service hardware is currently in use;	MR
• Self return sorters (2 and 3 bin) (2CQR)	
Self issue/return/renew units with cash and/or card payments (2CQR)	
• Self issue / multiple bin sorter / fine payment kiosk (3M)	
SmartServe self issue & return / multiple bin sorter / fine payment kiosk (Bibliotheca)	
SmartGate manager (to monitor and report on items passing through the security gates)	
(Bibliotheca)	
Please describe in detail how your systems would be able to work with this equipment.	
, , ,	MR
migration, decommission the following local systems:	
• 360 Core (ProQuest/SerialsSolutions) - ERM, knowledge base and link resolution systems	
Alto (Capita) - Library Management System	
Horizon (SirsiDynix) - Library Management System	
Millennium, WebBridge LR and Encore Synergy (Innovative Interfaces Inc.) - Library	
Management System, link resolution system and resource discovery	
SFX (ExLibris) - Open URL link resolution systems and Knowledge base	
Voyager (ExLibris) - Library Management Systems	
WorldCat Local (OCLC) - knowledge base, resource discovery and link resolution systems	
Please identify which of these systems would be able to be decommissioned upon migration to	
your systems.	
Please provide details on supported SMS gateways and SMS services.	HDR
High level system requirements: Approach to link resolution	
Some institutions currently use OpenURL resolvers built into their existing systems and will	
choose to replace these when migrating to the new shared library management system and	
resource discovery platform. Other institutions may wish to retain their existing OpenURL resolver.	
resource discovery platform. Other institutions may wish to retain their existing OpenORL resolver.	
Offer an integrated OpenURL link resolver.	MR
If an integrated OpenURL link resolver is supplied, ability to disable it and replace it by an	HDR
externally provided resolver, e.g. as currently in use by the institutions.	
The following link resolvers are currently in use;	HDR
• 360Link (ProQuest/Serials Solutions) - OpenURL linking service	
SFX (ExLibris) - OpenURL linking service	
WebBridge LR (Innovative Interfaces Inc.) - OpenURL linking services	
Please describe in detail how your systems would be able to work with these link resolver	
 services.	

High level system requirements: Interoperability		<u> </u>
Integration with other systems is achieved through utilisation of Service Oriented Architecture	MR	
approaches. Please describe in detail how a Service Oriented Architecture is utilised.		
Provide Open Application Programming Interfaces (APIs) and/or other interfaces that will allow the	MR	
institutions to develop extensions across the system as well as integrate the software into the		
local institutional environment.		
High level system requirements: Workflows		
The institutions wish to deliver business processes through workflows.	MR	
Please describe in detail how workflows are configured.		
e.g. As a library staff member, I want to able to able create/update workflows so that they enable		
our business processes to work efficiently.		
Workflow creation and update to be a configuration task, meaning it can be undertaken without	HDR	
the need to change code in the application.		
Provision of a process for designing workflows. Institutions to be able to build complex role-based		
workflows allowing them determine the direction of a process. Please describe in detail how library		
staff can design a workflow.		
Provision of a method for testing workflows that have been created or updated.	HDR	
Ability for workflows to collect data from library staff and library users. Describe how different	MR	
workflows collect data from library staff and library users.		
Ability for workflows to create alerts for tasks assigned to individual library staff / library defined	MR	
roles.		
Describe the creation of alerts including examples of the creation of alerts in workflows.		
e.g. As a library staff member, I want library staff member X to be reminded to carry out task Y if		
they haven't already done it so that tasks are completed in a timely way.		
As a library staff as a second boundary to alore library defined a second secon		
e.g. As a library staff manager, I want the system to alert library-defined users when a library staff		
member accepts or rejects a decision as part of a workflow.	1100	
	HDR	
the time limit, the system to create and send an alert to the individual/role who is responsible for		
doing the task.	LIDD	
When tasks remain uncompleted after alerts, the system to automatically route the outstanding	HDR	
task to alternative library-defined individuals or roles (including escalation if required).		

Appropriate roles to have an overview of a workflow including the current status and history, the workflow owner and the time elapsed since last update (e.g. administrator or workflow owner).	HDR	
Describe how this is achieved.		
	HDR	
library staff or library user or to change the route of a workflow.		
Ability to build workflows with tasks that run a predefined period before / after an event.	HDR	
Ability for nominated individuals (e.g. administrators) to create workflow requests on behalf of a	DR	
group of library staff who do not have web/system access.		
Ability for institutions to construct workflows based on any fields within the system.	HDR	
Please highlight any areas of the system where it is not possible to build workflows.	MR	
Support for different kinds of role-based/individual approval within workflows. e.g. majority vote	HDR	
amongst a group of individuals, peer approval, line manager approval. Give examples.		
	MR	
Group Manager, Researcher, School Administrator). Please explain how the system manages		
membership of users for these groups.		
1	HDR	
tasks/alerts to be delivered to these work lists for processing.		
Support for attaching files to workflows. List the types of files which may be attached to workflows,	HDR	
noting any file types which may not be attached.		
High level evetem requirements. Secreting/indexing		
High level system requirements: Searching/indexing		
System supplied with a standard set of indexed fields, including, but not limited to;	HDR	
• author		
• keywords		
• title		
• subject		
• series		
• package		
• call number		
• ISBN/ISSN		
• provider		
• publisher		
• notes		
Please provide a list indicating which of the above indexes are provided and which other fields are		
indexed in the system.		
High level system requirements: Standards/protocols/technologies/frameworks/models		
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Demonstrate support for the following:	MR
Demonstrate support for the following: • COUNTER (standard)	IVIR
• KBART (record format)	
• MARC21 (record format)	
,	
NCIP (protocol) ONIX-PL	
AACR2 and RDA (Standards)	
• SIP2 (protocol)	
• SUSHI (standard)	LUDD
Support for the following standards/protocols/technologies/frameworks/models;	HDR
EDDD (to a local)	
• FRBR (standard)	
Library Communications Framework (Framework)	
• NCIP 2.02 (protocol)	
QR codes (barcode system)	
Describe in detail how your systems supports these	
standards/protocols/technologies/frameworks/models.	
John Man and Protection Common and Man	
e.g. As an RFID enabled library, I want to use an open and accessible framework to explore an	
extended range of activities in addition to those currently supported under the SIP2 standard	
provision.	
High level system requirements: Legal/compliance	
Fully compliant with current UK and European Union legislation, including but not limited to;	MR
Data Protection Act 1998	
• Equality Act 2010	
	MR
Safe Harbor, or in an ICO approved country in all circumstances including a failure of the primary	
data site.	
Permissions based access to enable institutions to control access to data.	MR
e.g. As system manager I want to manage permissions so that each institution can only see library	
user records of its own library users.	
Please describe your process for managing access rights.	
	MR
to sub-contractors.	
to sub-contractors.	

Prov	vide the institution(s) with full co-operation and assistance in relation to any complaint or	IMR I
	uest pertaining to the Data Protection Act.	
	vide the institution(s) with full co-operation and assistance in relation to any request pertaining he UK Freedom of Information Act.	MR
	by the institution(s) or its auditors to audit data processing facilities to ascertain compliance in the contract.	MR
	emnify the institution(s) for claims arising directly or in connection with supplier data processing vities.	MR
Ехр	plain how the system complies with the EU e-Privacy Directive 2011.	MR
	usage of cookies is in compliance with UK privacy and electronic communication regulations Cookie Law: http://www.aboutcookies.org/default.aspx?page=3	MR
Lang lang sche	iver language agnostic system functionality in a manner which is compliant with the Welsh aguage Measure 2011 meeting the needs of all Welsh language users and supporting Welsh guage content and submissions including meeting the requirements of the Welsh language emes of the participating institutions (Welsh Language Schemes of consortium institutions illable on request).	MR
of ye	scribe the safeguards you can put in place to ensure the consortium's investment in the event our company's inability to continue to support the system. In particular, state details of the ging of source code under Escrow agreements or similar.	HDR
		MR
Higi	h level system requirements: System licensing	
base that	vide a flexible licensing arrangement to allow individual institutions to opt-in to components sed on institutional requirements (e.g. SIP licences). Include information about any licenses t are required, or provided as optional (e.g. SIP licenses for self-issue, open source software, abase engine, operating system).	MR
Syst	stem's licensing allows access by authorized users as defined by each institution. Describe how licencing operates for different groups of authorized users as defined by each institution.	MR
Higi	h level system requirements: Accessibility	

Interfaces to be accessible including but not limited to the following;	
Alternative description tag accessible by screen readers for all images.	
Standard user interface controls with programmatically associated labels or descriptions.	
On screen elements keyboard or touch accessible.	
Resizable screen targets e.g. submit buttons.	
• Font resizing or pinch to zoom support with ability to configure good contrast between	
foreground and background items including text and images.	
Please describe which of these you support and any other accessibility features across available the system.	
Advise if your product has been tested against any recognised assistive technology, for example	HDR
TextHelp or SuperNova. If not, provide evidence to demonstrate that your product can be	
accessed by users with special needs. If web based, provide evidence that your design meets	
Web Content Accessibility Guidelines level AA standards.	
High level eveters requirements Identity/sights management	
High level system requirements: Identity/rights management	
Support for administration of access rights for digital materials, based on library user group and collection.	HDR
Ability to assign roles, preferences and permissions to library staff functions.	MR
A system administrator role with ability to change all settings for an institution.	MR
Support for bulk assignment of roles or permissions to library staff functions.	HDR
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multiple roles without needing multiple IDs).	
Access control rights for library staff and the ability to facilitate multiple profiles accessing different combinations of functional modules.	
 Ability to manually or automatically create, update, activate and deactivate library users using data	MR
from organisational systems that serve as the primary source of that user data.	
Ability to partially update a library user record i.e. update some fields but not others.	HDR
	MR
appropriate. e.g. so that each institution can only see library user records of its own library users.	
Allow setup of role-based or individual logins. Please describe your process for managing these	MR
access rights.	
High lovel system requirements: Interfaces	
 High level system requirements: Interfaces	

Library staff and library users to be able to access functionality across browsers including but not	HDR
limited to the following; Google Chrome, Internet Explorer, Apple Safari, Mozilla Firefox, Google Android Browser. Describe in detail your current support for browsers across your system.	
Please describe your approach to interfaces across a range of devices (e.g. responsive design, mobile views, graceful degradation, progressive enhancement). Identify any add-ons required to support functionality with specific devices, or if mobile apps are available or required.	HDR
Please specify whether it is possible to integrate the service with mobile applications such as CampusM. Please give examples of such integration.	DR
Ability to customise text labels in interfaces across the system. Explain how this is achieved and identify any parts of the system where it is not possible to customise text labels.	HDR
Please describe the process required to provide a fully multilingual interface. Provide details of parts of interfaces that cannot be made available in more than one language.	MR
Please describe how you ensure integrity of local customisation during upgrades.	HDR
Provision of library staff interfaces in both Welsh and English. Explain how this is achieved, along with the mechanism(s) by which users are able to indicate their preferred language when interacting with the system.	HDR
Provide details and examples of online and context sensitive help.	HDR
Library-defined control over authenticated sessions including but not limited to; global and local timeout, close session when browser window closes, logout option. Please describe how you achieve this.	HDR
Ability to display system wide messages to library staff as they login including the ability to target messages at certain library staff groups by role or by location of library staff. Describe how you achieve this.	HDR
Describe how you achieve seamless access to all areas of the system based on library staff permission, i.e. no need to login several times	HDR
Seamless access to all information between workflow areas, e.g. check order status of item from within circulation functionality	HDR
Logging of system activity for logged in library staff and library users.	HDR
Ability to create/edit notes recording information about an object in the system (e.g. an item, an order, a claim) to be able to view these notes when the object in being displayed.	HDR
Ability to automatically record and display the name of any library staff who have made notes and the date / time saved.	HDR
Allow library staff to update search and display options according to their needs/preferences.	HDR
Ability for library users to alter the colours of the interface, background and text according to preference, e.g. to assist users with dyslexia or visual impairment	HDR

Ability for library staff to customise the staff interface across all modules / components of the	DR
system to aid ease of use; e.g. font size, background colour, language, ability to bookmark or	
save favourite / most used functions and workflows.	
Allow pre-defined display options based on workflows/roles.	HDR
Allow navigation via keyboard shortcuts or mouse.	HDR
Allow definition of hot keys for frequently used functions.	HDR
Allow copy on all display fields.	HDR
Allow copy and paste on all form fields.	HDR
Ability for library staff and library users to copy and paste data between all modules / components of the system.	DR DR
Clickable calendar control available to aid selection of dates in date fields.	HDR
Date display to be configurable in UK date format i.e. date/month/year. Please list any display of dates where UK format cannot be used.	MR
Allow access to multiple open windows / processes at any one time.	HDR
Provide process for local branding for all interfaces (not over-written by each upgrade, including retention of local settings).	HDR
Functionality to be delivered through a browser-based web interface. Please list any functionality not delivered through a web interface with an explanation.	MR
Functionality to be delivered without the use of browser plugins (e.g. Java, Flash). Please provide detail any plugins required.	MR
Explain your approach to usability including design and testing including processes and methodologies used.	DR
Web application interfaces be compliant with W3C-WCAG (WAI) version 2.0 at a minimum level A. Please describe in detail of levels of compliance for all web interfaces.	MR
Support for setup and configuration of a range of library staff searches from basic keyword to advanced across the back office system and all types of material. Please describe library staff searches that are available in your system.	HDR
Support for post-search facets in the library staff search including but not limited to; dates, date ranges, author, language, supplier/vendor, library location, format. Please provide a list of post-search facets available in staff services. Describe any limitations with filter large results sets by facet.	HDR
Advanced search configuration to support the option of searching multiple fields simultaneously for words or phrases.	HDR
Provision of spell checking functionality. Please provide details of where spell checking is available across your system.	HDR

		HDR	
	Bibliographic information		
	Electronic information		
	Physical title		
	Physical item		
	Digital title		
	Digital files		
	Format		
	e.g. As a member of library acquisitions staff I want to be able to choose to search only		
	online/electronic items before I enter my search terms so that I can find an online/electronic item		
	more quickly.		
	Ability for library staff to save and manage result sets and searches. Provide details of where this	HDR	
	functionality is available across your system.		
	Ability for library staff to select items from a result set to create a new set of items that a further	HDR	
	action could be performed on e.g. edit a record, view holdings, view items. Provide details of		
	where this functionality is available across your system.		
	A consistent search interface for library staff regardless of where they are in the system. Provide	HDR	
	evidence of interface consistency.		
2.0	Installation, data migration, training and documentation		
	Implementations to be completed in the timescales indicated in the attached documentation.	MR	
	Implementations to be completed in the timescales indicated in the attached documentation. Please outline the estimated timeline for implementation and provide a typical project plan.	MR	
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	Please outline the estimated timeline for implementation and provide a typical project plan. A team of supplier staff to be assigned to each implementation for its duration. What, and how many, supplier staff would be typically involved in the implementation; in what roles and where will they be based? On-site visits by supplier implementation staff. Describe on-site presence from the supplier implementation staff during implementation. Defined channels of communication between library staff and supplier implementation staff. How many library staff would typically have direct involvement in the project, in what roles and at what level? Project support to be available during UK office hours (9am - 5pm) throughout an implementation, to provide assistance and advice regarding configuration and functionality/training.	HDR DR HDR	

Include in the data conversion process iterations of test conversion during which library staff can check converted data in situ on the new system as well as from reports. Expectation would be for two or more iterations. Provide a sandbox during migration into which our own test data can be loaded/realoaded MR Provide information about the mapping process used during the data conversion process allowing the institution to map existing values (e.g. loan statuses, item types) to new ones, including non one-to-one mapping (e.g. old value X maps to either new value Y or Z depending on other criteria in the record). The following data is to be migrated. Describe the data migration process and specify any bespoke conversion services which would be required for each, and whether these are chargeable: Bibliographic (MARC21) Holdings (MARC21) Holdings (MARC21) Library users Library users Library users Library users Library user hotes Library user notes Check-in (print serials) including publication patterns Check-in (print serials) including publication patterns Check-in (print serials) including publication patterns Check-in (print serials) notes Check-in (electronic serials) ERM resource, licence and contact records		
repeatedly for analysis. Provide information about the mapping process used during the data conversion process allowing the institution to map existing values (e.g. loan statuses, item types) to new ones, including non one-to-one mapping (e.g. old value X maps to either new value Y or Z depending on other criteria in the record). The following data is to be migrated. Describe the data migration process and specify any bespoke conversion services which would be required for each, and whether these are chargeable: Bibliographic (MARC21) **Holdings (MARC21) **Holdings (MARC21) **Ilems **Suppliers **Suppliers **Suppliers **Subscriptions **Library users **Loans Please list which of the above you are able to migrate. Migration of the following data is also preferable. Describe the data migration process and specify any bespoke conversion services which would be required for each, and whether these are chargeable: **O'rders** **Library user notes** **Library serials (Holds/recalls) **Purchase order history **Transaction history **Transaction history **Transaction history **Check-in (print serials) including publication patterns **Check-in (print serials) notes **Check-in (print serials) notes **Check-in (electronic serials) **Acquisition funds and fund structures **ERM resource, licence and contact records	check converted data in situ on the new system as well as from reports. Expectation would be for	MR
Provide information about the mapping process used during the data conversion process allowing the institution to map existing values (e.g. loan statuses, item types) to new ones, including non one-to-one mapping (e.g. old value X maps to either new value Y or Z depending on other criteria in the record). The following data is to be migrated. Describe the data migration process and specify any bespoke conversion services which would be required for each, and whether these are chargeable: Bibliographic (MARC21) Authority (MARC21) Holdings (MARC21) Items Suppliers Subscriptions Library users Loans Please list which of the above you are able to migrate. Migration of the following data is also preferable. Describe the data migration process and specify any bespoke conversion services which would be required for each, and whether these are chargeable: Orders Library user notes ILL requests Fines Requests (Holds/recalls) Purchase order history Check-in (print serials) including publication patterns Check-in (print serials) notes Check-in (plectronic serials) Acquisition funds and fund structures ERM resource, licence and contact records	5 5	MR
The following data is to be migrated. Describe the data migration process and specify any bespoke conversion services which would be required for each, and whether these are chargeable: Bibliographic (MARC21) Authority (MARC21) Holdings (MARC21) Items Suppliers Subscriptions Library users Loans Please list which of the above you are able to migrate. Migration of the following data is also preferable. Describe the data migration process and specify any bespoke conversion services which would be required for each, and whether these are chargeable: Orders Library user notes Library user notes Library user notes Library care notes Prices Requests (Holds/recalls) Purchase order history Transaction history Check-in (print serials) including publication patterns Check-in (print serials) notes Check-in (print serials) notes Check-in (electronic serials) Acquisition funds and fund structures ERM resource, licence and contact records	Provide information about the mapping process used during the data conversion process allowing the institution to map existing values (e.g. loan statuses, item types) to new ones, including non one-to-one mapping (e.g. old value X maps to either new value Y or Z depending on other criteria	MR
any bespoke conversion services which would be required for each, and whether these are chargeable: Orders Library user notes ILL requests Fines Requests (Holds/recalls) Purchase order history Transaction history Check-in (print serials) including publication patterns Check-in (print serials) notes Check-in (electronic serials) Acquisition funds and fund structures ERM resource, licence and contact records	The following data is to be migrated. Describe the data migration process and specify any bespoke conversion services which would be required for each, and whether these are chargeable: • Bibliographic (MARC21) • Authority (MARC21) • Holdings (MARC21) • Items • Suppliers • Subscriptions • Library users • Loans	MR
	any bespoke conversion services which would be required for each, and whether these are chargeable: Orders Library user notes ILL requests Fines Requests (Holds/recalls) Purchase order history Transaction history Check-in (print serials) including publication patterns Check-in (print serials) notes Check-in (electronic serials) Acquisition funds and fund structures	HDR
On-site training on each functional area to be provided at each tranche of implementations, either to groups of institutions or to institutions individually.	On-site training on each functional area to be provided at each tranche of implementations, either to groups of institutions or to institutions individually.	
Training to be carried out on systems using consortium data and configurations.	Training to be carried out on systems using consortium data and configurations.	HDR

		IMP	1
	, , , , , , , , , , , , , , , , , , , ,	MR	
	Describe the quantity and nature of training provided as part of the standard implementation		
	package and for new releases including but not limited to;		
	What other training may be provided on request		
	If training is routinely provided for existing customers		
	If training is provided on site who will provide it		
	Indicate where costs would be incurred additional to regular maintenance fees.		
	Libraries to be able to customize and configure systems during implementation, ready for live use.	MR	
	How is this achieved, and what tools will be available for library staff to configure and customize		
	various parameters?		
	A clear escalation path to be available in the event of problems during implementation. Describe	HDR	
	the escalation process you support.		
		MR	
	another system. Please describe your export strategy including any assurances on availability of		
	the termination of contract.		
		HDR	
	standard settings.		
		HDR	
	e.g. through consortium super administrators to grant roles and permissions.		
	A set of initial definitions and configurations at the consortia level.	HDR	
	The following data shall be available to be migrated out of the system should member(s) wish to	MR	
	exit at any point. Describe the data migration process and specify any bespoke conversion		
	services which would be required for each, and whether these are chargeable:		
	Bibliographic (MARC21)		
	• Authority (MARC21)		
	• Holdings (MARC21)		
	• Items		
	• Suppliers		
	• Subscriptions		
	• Library users		
	• Loans		
	Please list which of the above you are able to migrate.		
L	. Todas not initial of the above you are able to inigiate.	1	ı

	The following data shall be available to be migrated out of the system should member(s) wish to exit at any point. Describe the data migration process and specify any bespoke conversion services which would be required for each, and whether these are chargeable:	HDR
	OrdersLibrary user notesILL requests	
	FinesRequests (Holds/recalls)Purchase order history	
	 Transaction history Check-in (print serials) including publication patterns Check-in (print serials) notes 	
	 Check-in (electronic serials) Acquisition funds and fund structures ERM resource, licence and contact records 	
3.0	Support and maintenance	
	Helpdesk services to be provided during UK office hours (Mon-Fri, 9:00-17:00 UK time). Identify the number of support personnel typically available during these hours and whether the support is wholly supplied by you and if not which services are provided by which 3rd parties.	MR
	Describe in detail your UK presence including offices in the UK and other staff also located in the UK.	HDR
	Supply a typical example Service Level Agreement (SLA) for the support of the service/system being offered. The final SLA in place for the service will be the result of discussions between the supplier and the consortium at the award of the contract.	MR
	Please provide details of how inadequate performance would be addressed, including such measures as reduction in future maintenance payments.	MR
	Please provide examples of monthly reports that you would provide to institutions to demonstrate performance against the SLA. As including but not limited to; • Support calls opened in a month	HDR
	 Support calls closed in a month Days taken to close calls by category Calls closed within SLA by month 	
	Calls closed outside SLA by month	

Describe in detail your Incident Management process.	MR
In particular; How will calls be raised, tracked, escalated and closed? How will the customer with receive alerts regarding call progression? What steps will you take to pro-actively maintain and managed the availability of the system? What steps will you take to pro-actively maintain and manage the support of the system?	
Supply an example of the Service Level Agreement for the support of the implementation of the system being offered. Indicate the period that this SLA would be in place and how you would transition from this SLA to that covering the post implementation support of the system.	HDR
Supply an example of the Service Level Agreement for the support of non-production instances of the system.	HDR
Identify the circumstances and method of alerting consortium members of issues found with other customers of the proposed system and that might affect their instance.	HDR
	MR
Describe the helpdesk services available outside of the required hours. Describe how a call raised outside of the required hours would be managed: • By prior arrangement with consortium members	MR
Please provide an example of your Release Management process for the proposed system, including but not limited to; • Routine maintenance windows	MR
Describe how emergency changes would be managed including but not limited to; the customer alert lead time.	MR
Each instance to have a dedicated upgrade window. Identify how much lead time we have to utilise the window and the ability that each have for influencing or delaying the implementation of an upgrade, e.g., to avoid critical periods such as summer exams, start of academic year.	HDR
Give a timeline for the lifecycle of the proposed system – including end of life dates (beyond which no support is provided), and any periods of reduced support towards the end of life of the system.	MR
Please describe the minimum notice period for withdrawal of support and development of the system and your guarantees that these will be met.	MR
Identify the arrangements for the Termination of the service including the notice period, data retrieval period and methods.	MR
Provide details on organised Customer Community Groups, the frequency of group meetings, membership conditions and relationship to supplier.	HDR

	Describe your process for capturing, assessing, developing and releasing enhancement requests.	IMD
	Describe your process for capturing, assessing, developing and releasing enhancement requests.	IVIK
	Provide a range of induction and ongoing training and documentation for systems and library staff,	MR
	including a web based customer resource base, software documentation, release notes,	
	information regarding upgrades and patches.	
	Describe how you provide access to customer resources including:	MR
	 A knowledge base that includes extensive information to assist customers in troubleshooting 	
	issues and FAQs	
	 Access to product information such as release notes and user group presentations. 	
	Access to all software documentation and training materials	
	 Information regarding upgrades and patches e.g. release notes 	
	Describe the document change procedure and detail how general library staff and technical/IT	DR
	staff will be made aware of updates.	
	Describe any provision for a managed service option where the supplier takes responsibility for	HDR
	some or all of the management of the system.	
	Provide details of maintenance periods and levels of support at your data centres.	HDR
4.0	Development & interoperability	
	Development & interoperability: General	
	Describe with evidence your commitment to develop services specifically for the Higher Education	DR
	community	
	Support for the institutional development of extensions to the core system to interface and	HDR
	interoperate with external systems. Please describe how you support this and how it is achieved.	
	Ability to publish/display data within external or mobile systems, for example, via JavaScript,	HDR
	widgets or custom development via APIs. Please give examples.	
	Demonstrate with evidence your commitment to open standards-based development.	HDR
	Describe any platform for sharing of customer-developed extensions.	HDR
	Demonstrate Unicode support across all APIs stating how this is achieved and any areas where	MR
	Unicode is not supported.	
	Please provide details your software development strategy.	HDR
	Describe the role of individual customers and customer groups and methods by which the	MR
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	individuals or groups may influence product development and enhancement.	
	Development & interoperability: Sandboxes	

Supplier provides a pre-production environment where upgrades and changes can be tested for integration and user interface implications prior to implementation on the live environment.	MR
Provision of a fully functional and available sandbox/test environment for each institution into	MR
which we can load/reload test data as required following migration.	
Development & interoperability: APIs/services	
Development & interoperability. Ar is/services	
Development functionality in parallel between suppliers own products and APIs allow integration with external products/services.	HDR
e.g. Suppliers own products/services should consume data from their own APIs so that in the event of an API bug, the supplier's own systems are affected giving them an incentive to fix the API bug promptly.	
	MR
Please provide details of the standards to which your APIs adhere and how they can be accessed e.g SOAP, RESTful	MR
Please give details of the output formats of your APIs e.g. XML, json	MR
Library Management; • User Services (E.g. List / Update User Details, List / Renew Loans, List / Place / Cancel Requests) • Record Services (E.g. List Record, List Record Holdings, List Record Items) • Circulation Services (E.g. Inter Library Loans, Circulation Statistics)	MR
Resource Discovery Library Catalogue Search (E.g Search by title, search by author) Metadata Index Search (E.g Search by title, search by author) OpenUrl Resolver Custom User Data / Personalization (E.g. Saved items, saved searches) Citation Management and Creation Reading Lists E-Commerce	MR HDR
Update library user information through an API or plug-in via institutional systems that serve as the primary source of that information or provide functionality to upload a structured text file	HDK

	Provide documentation for APIs as well as details of support for sharing of any developments by	MR I
	the institutions.	IVIR
	A dedicated contact for customers with API related questions.	HDR
	Please describe support that is offered to institutions who make use of your APIs	HDR
	e.g. Mailing lists, special user groups	
	Provision for API changes to go through Change Control Procedures to allow time for custom developments to be updated.	HDR
	e.g. As a web developer I want notice of changes to supplier APIs so that locally developed functionality doesn't break following upgrades e.g. National Library invest in library user/LDAP sync and then the system changes the API and everything breaks.	
	Provision of Z39.50 client and server functionality	DR
	Development 0 interesperability Coffman development	
	Development & interoperability: Software development	
	Describe the development methodology used for your system e.g. coding standards and methods	HDR
	Describe your quality control, testing and validation processes for the system e.g. test-driven development	HDR
5.0	Circulation	
	Circulation: General	
		MD
	Capacity to manage circulation of all types of physical library material including but not limited to; • books • serials • AV materials e.g. DVDs • theses	MR
	Capacity to manage circulation of all types of non-print material including but not limited to; • electronic/digital/online resources	HDR
	• software	
	hardware (e.g. laptops)	Lupa
	Support for circulation of material from closed stacks that must be used within the library	HDR
	e.g. An item is issued to a library user for one day. When it is returned to the desk it will either be returned or held at the desk for the library user for a defined period. The item will then be reissued to the library user.	

Ability to manage along decrease material for library ways to request items from remate (ar	IMD
, , ,	MR
closed) storage and have them brought to the collection location of their choice	
A Plant and the second state of the second sta	
e.g. A library user requires to borrow an item held off site in a remote store. They should be able	
to place a request for this item, that alerts a staff member to retrieve it from store. When the item	
is available in the library, alert the library user.	
Support for library defined slip printing for putting slip with necessary details into the book, as well	MR
as for picking items off the shelf. Should be possible for slips to be identified by the library user	
without giving away their identity to another library user.	
Provide the facility to temporarily change item location/item type/loan period and include an alert	HDR
function.	
e.g. Distance learners visit the library for short periods of time and certain material is made	
available for e.g. 2 hour loans, once they are gone again the items are put back on their original	
loan type/location. Anything that has been assigned a 'temporary' status or location should alert	
library staff after a library defined time.	
Provide automatic blocks and alerts on borrowing items, including but not limited to; expired library	MR
users, maximum concurrent loans, outstanding fines/fees, overdue/overdue recall request items,	
and provision for these to be removed by authorised staff.	
and provident for these to be removed by administration	
e.g. As an issue desk staff member I want to prevent library users from borrowing or further	
renewing items until certain issues are resolved so that they make use of the library in a way that	
is fair to other library users and meet their requirements in relation to the university e.g. by paying	
off fines.	
	MR
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user has paid fines.	MR
Allow authorised staff to create manual blocks with an explanatory message.	MR
Authorised staff to be able to override any library user block or item block.	
Show the status of items (e.g. recall request, awaiting collection) to authorised staff and library	MR
users via discovery interface.	lup.
Maintain a loan history for both items and library users, retrievable for a library-defined period	MR
Support the circulation of uncatalogued items; library to be able to enter brief information when	MR
issuing and assign items to a loan policy, trapping such items on return to allow full details to be	
input.	
Support the circulation of unlisted serial issues and facilitates recording of volume, date, issue	MR
and notes by library users when requesting.	
e.g. Where the system holds bibliographic data and summary holdings information and the library	
user wishes to place a request at issue level.	
Allow change of item details on the fly, e.g. replace unreadable barcode	HDR
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Provide ability to trap requested items and other items which require staff intervention on their	MR
return to the library.	
Provide mechanism for library staff to trap items before fulfilling library user requests	HDR
e.g. Sometimes it is necessary to make changes to an item before the next request is being	
fulfilled, a staff admin request will need to take priority over a library user request in such cases,	
e.g. changing heavily used items to short loans	
Allow for loans and returns of multiple item sets, e.g. music, drama sets at both issue desks and self service.	HDR
e.g. As a library user I want to be able to borrow/return multiple item sets at both issue desks and self service so I can borrow these types of items whenever the library is open.	
	MR
Library configured option for library users to borrow, return and renew items at any issue desk or self-service point.	INIK
Allow optional restriction of return of items to specific library issue desks or self-service points.	HDR
Alert library staff to items which need to be returned to their 'home' location and manage the	MR
transit of such items, showing their current status at all times.	
Ability to send notices to print queues and email addresses. Describe how your system sends notices to print.	HDR
Ability to provide library user notice emails in plain text or HTML format with institution defined	HDR
branding	
Allow for text and format of notices to be library-defined with ability to add/remove library user	MR
record fields and produce alternative formats (e.g. multilingual).	
Allow library/institution to define which notices are generated and how they are sent.	HDR
Circulation: Issues, Renewals and returns	
Allow library user expiry date to override normal due date applied to an item if the library user	MR
expiry date is sooner.	LUDD
Provide warning of imminent expiry date to be given on screen to library staff when viewing a library user record and to a library user when using self service.	HDR
Provide for a time-out on transactions in the circulation staff interface (to prevent the issue of	HDR
items to a previously accessed library user)	TIBIX
e.g. As library staff I want a session with a library user to timeout in circulation so that I don't	
accidently issue items for the next library user in the queue to the previous library user.	

Ability to backdate the date of return for items to accommodate back drop returns	HDR	
Ability to backdate the date of return for items to accommodate book drop returns.	Indk	
e.g. As library staff I want the true time of return of any book drop items to be recorded on	a the	
system so that they don't incur fines when they are recorded at a later time in the system.		
system so that they don't incur lines when they are recorded at a later time in the system.		
Ability alert library staff to items based on their item status e.g. as 'claimed returned', 'lost'	, HDR	
e.g. As library staff I want to be alerted when bringing up an item record/issue/return of any	ny such	
statuses that staff need to follow up on.		
Allow bulk renewal of all items on loan by library staff for a library user (subject to library us	ser and MR	
item checks), or the renewal of selected items only.		
Ability to prevent renewal of overdue items (library-defined threshold), items with requests	s (holds MR	
or recalls), overdue recall requests and items over the renewal limit.		
Allow for renewal of unseen items at any service point, including but not limited to; self-ren	newal on HDR	
resource discovery, self-renewal via automated telephone service, SMS, via self service		
machines.		
System to automatically record method of renewal e.g. issue desk, resource discovery, sel-	elf HDR	
service, automated telephone service.		
System to record renewal date and time.	MR	
Provide direct access for authorised library staff to the library user record for personal deta	tails and MR	
details of loans, fines and requests from issue, return or renewal functions		
Provide direct access for authorised library staff to a full item record, including request	HDR	
information, from the library user's account.		
Circulation: Circulation/fulfilment policy		
	LUD.	
Circulation policies to be library-definable.	MR	
Ability to assign create/read/update/delete rights to authorised staff with regard to different circulation policies.	nt HDR	
Ability to use combinations of circulation configuration items to set rules/policies that will al	allow the MR	
system to operate a fulfilment system.	anow the livit	
Support variations in library policies between institutions and between different libraries wit	vithin MR	
institutions.	TVII V	
Ability to set common circulation parameters across multiple institutions and libraries within	in MR	
institutions.		
Support for different circulation policies for different libraries within an institution.	MR	
Support for lending across all institutions in the consortium.	HDR	
Enable individual libraries to define consortia level circulation policies.	HDR	
Ability to set loan periods, loan limits and circulation calendars at consortia level, institution	on level HDR	

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	5 ,	HDR
	User groups/types	
	• Item types	
	Loan periods	
	• Fine types	
	Fine payment types	
	Due dates	
	Open/closed days	
	Opening hours	
	Sites/Libraries	
	Requests (holds/recalls)	
	Circulation policies to be configurable by a combination of user group, item type and location to	
	include but not limited to settings listed below;	
		MR
	periods)	
	reference only (non-loanable)	MR
		HDR
		MR
		MR
		MR
	recall requests - maximum concurrent (by item category and overall)	HDR
		MR
	hold requests - maximum concurrent (by item category and overall)	HDR
		MR
	maximum fines (per item loaned)	MR
		HDR
		HDR
		HDR
	Ability for library users to request items from remote (or closed) storage even though they may not	
	be permitted to request items on open shelf which are not currently on loan.	
		HDR
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	HDR
rules/parameters in advance i.e. automatically switch on a vacation rule rather than rely on staff intervention	
e.g. As library staff I want to be able to set up e.g. vacation loan periods in advance, so that	
'standard loans' change from 2 weeks during term time to a long loan with fixed due date during vacation time	
	HDR
	MR
identifiers in the library user record	HDR
Allow authorised staff to manage permissions to access print and electronic/digital/online resources for different groups of library user e.g. alumni, partner, retired staff	HDR
Ability to distinguish between journal records, multipart monographs, and monograph records with respect to requests i.e. no title level requests on journal titles and prompt to input information on which issue/part and ability to group monograph requests by loan type e.g. request any copy that is a 2 week loan but ignore 3 day loans.	HDR
Ability to set up automated workflows/processes for lost and missing items. The workflows should allow manual intervention if the item is found, but otherwise should progress the item towards a withdrawn status and remove it from resource discovery. Please describe how this can be done.	HDR
Circulation policies to include ability to configure non-loanable items.	MR
Ability to set up auto-renewals of items where there are no other pending requests.	DR
Ability to configure rules for circulation policies based on library user demand (e.g. demand driven variable loans) and to alert staff to item status changes resulting from application of these policies.	HDR
	MR
Ability to set retention period for borrowing history.	HDR
Circulation: User management and library user record	
Allow authorised staff to create, read, and update library user records both individually and in bulk.	MR
	MR
	MR
Enable online user self registration (ref Resource Discovery)	MR

If more than one email address in record, ability to set one as default for communication.	HDR
Ability to set a default communication method for alerts, e.g. email rather than printed notice.	HDR
Allow for PIN number in library user record (for use with self service machines)	HDR
attempts to use it.	IUN
identifier, library user barcode, library user record expiry date. When a library card is 'lost', prevent transactions on that card and alert staff when someone	HDR
Library user records to be searchable by fields including but not limited to; name, institution	HDR
reaches a certain age (e.g.18).	LIDD
Ability to automatically change the group which a library user belongs to once the library user	DR
• unique institution ID, e.g. student or staff number.	DD
barcode (including active and inactive if more than one assigned to library user)	
• notes	
• purge date	
expiry date	
• start date	
• create date	
course registration date	
• department	
• home library	
• date of birth	
user group/category	
• mobile	
• term landline	
• home landline	
• email address(es)	
• term time address	
home address	
• family name	
• middle name(s)	
• first name	
• title,	
The library user record fields including but not limited to;	HDR
deactivate other library user barcodes/ library cards in the library user record.	
Option during import to mark a particular library user barcode/library user card as active and to	HDR
Allow protection of certain fields to prevent overwriting by external systems.	HDR
Describe how this can be achieved.	
Ability to print library user cards/tickets based on library user data and including photograph.	HDR

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	MR
not limited to; overdues, fine statements with replacement cost, courtesy reminders, recalls, items	
awaiting collection, invoice for lost items.	
e.g. As a library user, I want to receive user defined personal communications (e.g. email) from	
the library regarding fines, overdue items, soon overdue items and availability of items I've	
requested via e-mail, SMS text and printed letters so that I am kept informed.	
	HDR
user	
Circulation: Fines/fees/payments	
Support for different fine and fee types including but not limited to; overdues, overdue recalls, lost	MR
items, document delivery fees and fees for photocopying or printing.	145
 Provide facilities for the in person payment of fines and fees	MR
,	HDR
security standards that are implemented.	
Ability to create fines in real-time (e.g. while the item is still out increase the fine in the defined	MR
interval), or only at the point the item is returned.	
	HDR
if you return them today, the fine would be £xx added to your existing fines of £xxx	
Ability for authorised staff to manually create, waive, or forgive a fine or fee and record who	MR
carried out the action.	
Support for custom fine or fee types to be created.	MR
Support for the creation of a block on further borrowing for those exceeding a library defined fine	MR
and fee outstanding balance.	
Display details for each fine or fee, e.g. the loan which incurred the fine, part payment(s)	MR
Ability to accumulate fines and fees for payment in a single transaction	MR
Allow payment in full or part against any individual fine or fee or against all fines and fees.	MR
Ability to record reason for a fine, fee waiver, or any other type of charge.	MR
Record the payment method (e.g. cash, debit card, serviced/self service) and date/time.	MR
Ability to provide receipts of fines or fees paid (e.g. print, email and SMS).	HDR
	HDR
recorded on tills, by library	
	HDR
Ability to set processing/administration fees e.g. for lost items	HDR
Circulation financial history be retrievable for a defined period by authorised staff.	MR
Ability to allow refunds to be made and recorded.	HDR
i many to the contract to we make an a record of	
Circulation: Requests/recalls/holds management	

T	T
Provide a flexible and customisable requesting system which works across multi-site libraries and	MR
differing loan periods, giving library users the ability to request the first available copy of an item or	
a specific item regardless of status, site location and format (print/online).	
Support for business rules that automatically manage library users' requests with staff mediation	HDR
only when necessary.	TIBIC .
Facility to automatically generate alerts to library users when requested items are available for	MR
collection.	
	HDR
be also alerted in their resource discovery service.	
Allow title level (first available copy) requests	MR
Allow item category and copy specific requests	MR
Allow grouping of locations to satisfy requests.	HDR
Allow/disallow hold requests on items on order	HDR
	HDR
site of hold requests for shelf check	
Allow staff to record a rejection of a hold request with status 'not found on shelf' and for the library	HDR
user to be alerted.	
Allow for a default collection point to be specified which can be changed if required by staff/library	HDR
users	
Manage a list of valid locations for collection of successful requests.	HDR
	HDR
recall notices for items on loan (recall item due back soonest or out on loan the longest).	
Alert staff of a request on an item on return from loan and alert the requester that the item is	MR
awaiting collection, giving the location	
	MR
Ability for authorised library staff to change the order of the request queue for item.	HDR
	HDR
to title level, or vice versa.	
	MR
request/hold shelf).	
Alert staff/library users if a request is awaiting collection, including its location, whenever the	MR
library user record is accessed.	
Allow creation of one or more locations for the collection of items or alternatively as a point for	HDR
library staff to process items for posting to users.	LIDO.
Ability for a library user to collect an item from an open shelf and issue it to themselves without	HDR
staff intervention whilst preventing other library users from successfully issuing an item from an	
open requests/holds shelf	

Ability to print a hold alin / is alsot for an itam assocition collection that would enable a library u		
Ability to print a hold slip / jacket for an item awaiting collection that would enable a library u collect the item from an open shelf without providing information on the slip that would allow others to identify the requester.		
Ability to track where an item requested/returned is, e.g. when requested from external store branch library.	re/other HDR	
Circulation: Bookings and short loans		
Support for advance booking of resources (rooms, hardware, software, equipment) either d	directly HDR	
on the system or via an interface with a bookings system using SIP2/NCIP standards		
Ability to book resources in advance for a certain time	MR	
e.g. As a library user I want to pre-book popular items for a certain date/time so that I can b guaranteed access to the item at that time.	be	
Ability for short loan periods to include hourly, daily or overnight loans.	HDR	
e.g. as library staff I want to be able to define e.g. a 10 hour loan (10 opening hours), or a 1 loan (due 24 hours later regardless of closed time)	1 day	
Self-service booking form by use authenticated library users.	HDR	
Support booking of resources, including short loan items for a given date/time for library def time slots.		
Ability for the workflow to respond to status changes e.g. alert library staff of items that have booked or send alerts to library users if an item is not returned on time. Describe the differe processes in the short loan bookings workflow.		
Circulation: Smart fulfilment		
Support for smart fulfilment using a set of business rules making use of library user data an data to determine the most effective fulfilment method. All options to fulfil a request to be presented to a library user via the resource discovery interface.	nd item MR	
If one delivery method is unavailable, the system workflow automatically moves to the next fulfilment method based on library-defined rules e.g. from physical item in stock to documer delivery.		
Support for fulfilment of purchase requests submitted to the library via the resource discove interface which will be routed into smart fulfilment.	ery DR	
Support for smart fulfilment of requests via link resolution to appropriate electronic/digital/or resources.	online HDR	
Support for digitization on demand workflows.	DR	

Circulation: Self service	
Ability to interface with self-issue and self-return devices using appropriate/latest standards.	MR
Please specify standards used in circulation functionality and future road-map for full compliance	MR
with emerging standards. State level of compliance.	
	MR
(as listed under High Level Requirements) and be able to support current functionality of self	
return bins.	
Ability for library users to access their library account via the self service devices e.g. items on	HDR
loans and current fines/fees balance.	
Ability to process fines/fees payments through the self service devices currently in use.	MR
Ability to report on all transactional data sent to and received from the self service units e.g. for	HDR
troubleshooting.	
Circulation: Project/group loans	
Ability to group multiple items for issue under a single 'parent' identifier	DR
e.g. As an adult education tutor I want the ability to borrow a book box of items from the library so	
that my group of students can use them.	
Ability to issue/return items from the project/group loan individually	DR
e.g. As an adult education tutor I want the ability to borrow a book box of items from the library	
and issue them individually to library users so that they can use them and I can track where there	
are.	
Automatic return of the 'parent' item when the last on-loan item in the group has been returned	DR
Ability to unlink on-loan items from the project/group loan, so that the rest of the project/group	DR
loan can be re-issued	
Ability to produce a web-based or printed checklist of items in a project/group loan.	DR
e.g. As an adult education tutor I want a means to track some of my book boxes on paper so that I	
can track items in places where there is no internet connection.	
Circulation: Offline circulation	
Provide back up procedures in event of system/network failure capable of handling all issue and	MR
return transactions with minimal disruption to services. Describe these procedures and how	
transactions are recovered as soon as the system is back online.	

	Report on exceptions on recovered return transactions e.g. current requests or items on hold for staff intervention.	HDR	
	Allow application of varying due dates based on user group/item type groups once transaction data loaded into live system	DR	
	Alert library staff to any anomalies once transaction data loaded into live system, e.g. item taken out while somebody else has requested it	DR	
	Ability to force/schedule use of offline circulation, e.g. in case of expected network outage	DR	
	Circulation: Stock taking and inventory		
	Provide an inventory facility for physical resources, allowing the use of offline portable devices to store and upload a list of item identifiers (e.g. barcodes, RFID tags) to the system. Please provide a list of supported devices and file formats which will allow the import of inventory data into the system.	MR	
	Allow for inventory check against live system data using a portable wi-fi enabled web browsing device (e.g. Android tablet, iPad, laptop computer) and reporting inconsistencies in real time.	HDR	
	Allow for the separate inventory of discrete collections within each library.	HDR	
	Allow for the inventory function to account for items with specific item statuses which may not be present (e.g. on loan, on order) and prevent these from being included in any error or exceptions reports	HDR	
	Provide for the reporting of inconsistencies during an inventory, e.g. items shelved in the wrong location and / or collection, items found but recorded by the system as being on loan or otherwise unavailable, and identifiers which are not recognised by the system.	HDR	
	Ability to generate a list of items not found during a completed inventory, with the results to be sorted in library-defined order.	HDR	
	Ability to generate a list of items which are shelved in an incorrect order, but found in the correct collection and location	DR	
	Ability for items shelved in the wrong order but found in the correct location and collection to be kept separate from reports of other inconsistencies, and / or hidden if desired. (Explanatory note:we may wish to turn off this function if using a device such as an RFID wand which reads tags in a non-linear way)	HDR	
	Allow for items not reported during stock checking to be automatically sent to an appropriate workflow depending on library-defined criteria: e.g. infrequently used items to be sent for deletion, commonly used items to be sent for replacement purchase.	DR .	
6.0	Selection and Acquisition		
	Selection and acquisition: General		

Provision for acquiring print, non-print and online materials, including monographs and serials,	MR	
with integrated financial management and supplier/vendor database.		
Support for different and definable financial years e.g. April-March, August-July.	MR	
Supports electronic data interchange (EDI) in conformance with the EDIFACT reports and loading	MR	
direct into existing order records standards		
Please detail which EDI messages are supported:	HDR	
Purchase Orders		
Order Fulfilment		
• Invoices		
Credit Notes		
Order Responses		
• Quotes		
• Claims		
Recommended titles		
• other		
Describe the level of EDI integration possible with the following suppliers:	HDR	
• Amazon		
Blackwells		
• Coutts		
• Dawsons		
• EBSCO		
Houtschild		
John Smiths Bookshops		
 • Swets		
Ability to send approved orders via print/e-mail for non-EDI suppliers.	MR	
Alerts based on information such as subscription dates, licence renewal dates, trial start dates,	HDR	
notice periods and locally defined actions, configurable and linked to widely used calendar or task		
 list systems.		
Manages the acquisition lifecycle irrespective of resource type such that:	HDR	
an order that passes criteria will continue through the process with no staff intervention		
• library-defined criteria (such as incomplete order lines or prices above a threshold) will alert		
 library staff where review is needed.		
Supports facilities for managing and tracking the payment of Author-Payment Charges (APCs) for	HDR	
open access, e.g. does the system allow monitoring of APC charges against subscription charges		
to evaluate the level of 'double-dipping' or the effectiveness of OA membership schemes/NESLi2		
 APC discounts?		
 Provides a method to manage prepayment.	HDR	
 31	MR	·
 stages of the acquisitions process.		

Supports the import of order/bibliographic/licence data from suppliers/vendors, including supplier/vendor websites.	MR
Ability for library acquisitions staff to access external pricing at the point of purchase.	HDR
As a library acquisitions staff member, I want to see pricing from external sources such as book suppliers, Amazon, Abe Books at the point of purchase so that I can factor price into my purchasing decision.	
Enables input of bibliographic data for order records both by direct input and by use of imported bibliographic records at the order stage.	MR
Ability to integrate acquisition/selection processes with reading list management services e.g PTFS rebus:list, Talis Aspire, in-house or other. Please provide examples from current customers if possible.	HDR
	MR
Ability to create a library defined % price increase as part of end of year rollover.	HDR
Ability to predict estimated price for serials subscriptions based on payments paid in previous years.	DR
Facilities for tracking supplier/vendor performance at point of order. Please describe how this might be achieved.	DR
Allow for input to be corrected and amended at all stages, including 'undo' operations.	HDR
As a member of acquisitions staff I want to be able to unreceive an item received in error with minimal steps so that I don't waste time unreceiving an item.	
Selection and acquisition: Selection and deselection	
Support for the ability to load supplier/vendor recommendations for purchase consideration. Selectors may then purchase, refer, reject or defer purchase.	HDR
Capability for the system to use analytics to automatically create selection requests or highlight items for deselection / withdrawal e.g. based on concurrent requests for items on loan, total loans over a period, total requests over a period, licence/renewal agreement expiry date, price increase above library-defined threshold and also whether a title has already been added to the selection queue by the process.	HDR
	HDR
Support trials to evaluate electronic/digital/online resources before purchasing, including intelligence gathering (cost, consortium, title analysis, perpetual access, opt outs, price caps), management of participant feedback (individuals and groups) and other communication e.g. with suppliers.	MR

Approved selection items generate order records in acquisitions that have the potential to be automatically ordered, if they pass library-defined criteria (e.g., Selector role, price, and completeness of order line, ability to identify suitable supplier).	HDR
The system provides cost / usage analysis for library staff during an evaluation period, e.g library defined date range, trial period	HDR
Selection and Acquisition: Purchase, Gift, Deposit, Legal Deposit	
Supports the following purchasing workflows: Bundled orders Prepayment Print approval Print firm order Electronic/digital/online firm order (package or single-title) Print continuations/subscriptions (package or single-title) Standing orders Electronic/digital/online continuations/subscriptions (package or single-title) Gifts / no-cost acquisitions Patron-Driven Acquisition (PDA) Inter-Library Loans / Document delivery Deposit items Legal deposit items	HDR
Able to automatically create purchase orders based on knowledge base packages or items.	HDR
Able to automatically create purchase orders based on supplier/vendor MARC records or other bibliographic records (Resource records on demand / Electronic Order Confirmation Record) for resources ordered from an external supplier/vendor.	HDR
Provides links from a purchase order to other related information such as invoice, supplier/vendor licence and linked descriptive record.	, HDR
Provide a workflow for the production of a range of library defined acknowledgements in response to receipt of deposits/legal deposits/gifts/no cost acquisition items.	DR DR
Enable library staff, throughout process, to see summary of current holdings (inc. in other formats at institutional and consortium level.) HDR
Enable library staff, throughout process, to see summary of historic purchase information (inc. in other formats) at institutional and consortium level.	HDR
Selection and acquisition: Suppliers/vendors	
Ability to maintain multiple accounts for a single supplier/vendor linked to a main vendor/supplier record	HDR

Ability to maintain multiple physical and amail addresses for a single cumplior/yender with the	HDR
Ability to maintain multiple physical and email addresses for a single supplier/vendor, with the potential to tie these addresses to individual accounts	INDK
	HDR
Ability to maintain discount and delivery information in the supplier/vendor record and link this	HUK
information to individual orders	LUDD
Allow required data, for example class mark, processing requirements, to be sent	HDR
within the order to allow for print material to be received shelf ready. Explain your shelf ready	
process.	
Supports supplier/vendor information files maintaining contact details and Supplier Address	MR
Number information.	
Selection and acquisition: Receiving/activating and unreceiving/deactivating	
Allow for the receipt/activation of acquired resources	MR
Ability to receive/activate print, non-print and online items from both approved purchase orders,	MR
invoices, legal deposit claims and other acquired items	
Ability to automatically create new item records when an item is received (able to use	MR
bibliographic records including MARC records, from the bibliographic utility of choice together with	
invoice data and item data).	
Capability to claim or cancel orders and to store related correspondence or notes in the order	HDR
record and alert library staff when an item has not arrived and allow for claiming of missed items	
Tools and another morally stant throng and the annual and and another stanting of throose items	
Provide alerts before accepting invoice data for items cancelled/charged to over committed funds.	MR
Trovido dione porere accepting inverse data for iteme carreened on angle to ever committee fariace.	
Ability for system workflows to route received items based on the completeness of their metadata	HDR
and item information (i.e., to cataloguing, physical processing, or shelves).	
Ability for the system, when requested to alerts library users when an item has been receipted and	HDR
is available for loan.	
1.0 0.100.00.00.00.00.00.00.00.00.00.00.00.0	<u> </u>

	Support the ability to create an invoice based on a purchase order.	MR
	Selection and acquisition: Invoices and Payments	
	Ability to transfer money from one fund to another.	MR
	made when converted to Sterling.	IMP.
	Provides foreign currency conversion so that system records original currency as well as payment	HDR
	rates for foreign currencies stored as a central service.	
	'' '	HDR
		HDR
		HDR
	(YTD), commitment YTD, cash balance YTD.	MR
	outstanding orders and subscriptions to the new financial year.	MR
		MD
		MR
	Real-time updating to fund balances (including commitments and expenditures).	MR
	Selection and acquisition: Fund Management	
_		
	paid.	
		DR
		MR
	• package e-resources e.g. a publisher deal for a collection of ejournals or ebooks	
	• individual e-resources e.g. an electronic/online journal, ebook or database	
	Legal deposits	
	Multiple copies of titles already in stock Deposit items	
	 Multi part items split on receipt e.g. DVD box sets Multiple copies of titles already in stock 	
	Multi part items e.g. book with CD Multi part items enlit on receipt e.g. DVD box cots	
	Gifts / no cost titles (print/electronic/digital/online) Multi part its gas a gar hard switch CD.	
	Patron-Driven Acquisitions (PDA)	
	Inter Library Loans/Document delivery (print/electronic/digital/online)	
	Serial issues (print/electronic/digital/online)	
	Serial monographs e.g. standing orders (print/digital/online)	
	• Single title monographs (print/electronic/digital/online)	
	l	MR

	eg. ability to output commitments and payments to institutional finance system, as well as the import of payment confirmation files.	HDR	
		HDR	
	Ability to monitor expenditure via hierarchical grouping of fund codes, which allow for different groupings e.g. by faculty or type of material purchased	MR	
	Enable single order to be split across multiple funds	MR	
	Selection and acquisition: Renewals and cancellations		
	Provide support for institutional decision making ('cancellations lists'; 'renewals lists') including relevant information such as quantitative measures (e.g. usage, cost per view), notes, post cancellation terms from the licence, licence changes, changes in titles included in packages, and other relevant information.	HDR	
	Alerts to relevant library staff when key decision points are reached for resources (e.g. end date of current agreement, a local set date in advance of notice period).	HDR	
	Provide information about alternative deals known to be available when considering renewal or cancellation.	HDR	
	Support for limitations on renewal and cancellation decisions e.g. core titles (as defined by the publisher) not available for cancellation; do not allow cancellations to go above a specified percentage of print spend with the publisher.	HDR	
		HDR	
	Set alerts for future dates when actions need to be taken e.g. as a reminder to check access post-cancellation; an alert to update holdings on relevant systems post cancellation.	HDR	
		HDR	
	Selection and acquisition: Shared selection and acquisition		
	Ability to create/read/update/delete subscription wishlists to be shared across the consortium to highlight opportunities for consortium purchases.	HDR	
7.0	Cataloguing / Metadata		
	Cataloguing: Standards and Formats		
	Comply with MARC21 and MARCXML.	MR	
	No limits on record, field or subfield size, or the number of fields in a record (beyond that imposed by the MARC format).		

Provide details of your ability to work with other data encoding standards such as Dublin Core EAD.	re and HDR	
Describe current and future provisions for working with new bibliographic frameworks such as RDF and BIBFRAME.	as MR	
Comply with RDA, AACR2, FRBR and FRAD.	MR	
Indicate how the system can currently leverage RDA to display FRBR-ised data.	DR	
What linked data opportunities are envisioned from emerging RDA and Bibframe developmed Indicate how this will allow data sharing beyond libraries.		
Able to operate with multiple classification schemes, including Dewey, Library of Congress ar National Library of Medicine, as well as local schemes, and be able to index/sort with these schemes.		
Support the use of unlimited multiple thesauri (e.g. Library of Congress, MeSH and other subheadings).	bject MR	
Support ISO2108 (ISBN, current revision), ISSN, ISNI and ISMN standards.	MR	
Cataloguing: Metadata Management		
Provide facilities for creating and maintaining Bibliographic, Holdings and Authority records. Provide details, if any, of facilities available to bulk edit bibliographic and authority records, e.g. removal of GMD data, addition of RDA features.	MR	
Allow extra library defined local bibliographic, holdings and authority fields to be created.	MR	
Spellchecking functionality across commonly-used languages to aid the prevention of typographical errors.	HDR	
Allow for the creation of library-defined cataloguing templates for different types of material, artefacts and types of record.	, MR	
Able to allow or prevent the creation of duplicate records. Explain how duplicate records are prevented.	MR	
Explain how records are validated against library defined profiles.	HDR	
Provide for online deletion of bibliographic records and describe how the system prevents de of a bibliographic record if it still has an item or order record attached.	eletion HDR	
Allow existing records to be copied and used as the basis for a new record.	MR	
Provide a facility for batch and global update of bibliographic, authority and holdings item rec		
Allow the validating of URLs, URNs and other URIs in bibliographic records and holdings.	HDR	
Provide a way of linking a single item record with several bib records ('bound withs') and explosure how this is achieved.		
Support real-time or near real-time updating of bibliographic data to resource discovery interf	face. HDR	

What functions do you provide to aid the creation and editing of bibliographic records, e.g. global	HDR
edit, auto save, undo, record lock?	
Provide an auto-save function when creating and editing catalogue records.	DR
Octoberning Beand houset/Forest and Obered Octoberning	
Cataloguing: Record Import/Export and Shared Cataloguing	
Drawing the oblite to import and apport his increase is and put house, we could find an athous accuracy	MR
Provide the ability to import and export bibliographic and authority records from other sources	IVIR
(e.g.LoC, RLUK, OCLC, suppliers/vendors, VIAF and Summon) and explain how this is achieved,	
e.g. Z39.50, Bath profile, SRU,SRW protocols. Provide the ability to batch export and import selected record sets.	MR
	MR
those records, or be rejected, according to library-defined parameters.	IVIK
Enable access to and sharing of bibliographic records from a system-provided shared knowledge-	HDR
base(s).	
Provide the ability to locally export and import bibliographic, holdings and authority data in	MR
MARC21 format.	
Cataloguing: Authority Control	
7 0	MR
records. Provide details of all authorities that can be created	
and managed, e.g. name, series, subject, title.	
Alert library staff if deleting an authority still attached to existing bibliographic records.	HDR
Allow access to authority records during bibliographic record creation for checking/selecting	MR
headings.	
7 9	MR
Provide that changes to authority records are approved across all records associated with that	MR
heading.	
Cataloguing: Holding/Item Management	
Able to energic with multiple legation godes, item types and harrowing statuses	MR
Able to operate with multiple location codes, item types and borrowing statuses. Allow unique item identifiers (e.g. barcodes, RFID tags) to be assigned to an item record.	MR
Assign a replacement item identifier to an item.	MR
Provide for copy and re-use of item data.	HDR
No limit to the number of holdings or item records linked to the bibliographic record.	HDR
Provide for marking of items/copies as withdrawn or deleted.	MR
Enable relinking of item records to new/other holdings records.	MR
Enable relinking of heldings records to new/other holdings records. Enable relinking of holdings records to new/other bibliographic records.	MR
Provide for the deletion of items, holdings and bibliographic records.	MR
 Triovide for the deletion of items, notalings and bibliographic records.	IVIIX

	Prevent deletion of a bibliographic record, where it still has holding/ item record attached.	MR	
	Facilities for the local (site-specific) deletion of item records, according to access rights.	MR	
	Provide for suppression of bibliographic and holdings records from public display.	MR	
	Provide ability of automatic suppression of bibliographic records where all attached holdings	HDR	
	records are suppressed from public display (ability to switch this feature on or off)		
	Facilitate the generation of library defined spine labels from cataloguing data or as sequential	MR	
	numbers following a prefix.		
	Provide for the relocation of items between institutional library sites, and between institutions,	DR	
	preferably retaining usage statistics for the previous owning site.		
8.0	Knowledge Bases for Print and Electronic/Online Resources		
	Knowledge Bases for Print and Electronic/Online Resources: General		
	Turomougo Bucco for Finite and Electronia, Chimie Procedures.		
	Data in the Knowledge Base to be exposed via machine accessible interfaces (APIs). Please	HDR	
	describe in detail how this is achieved.		
	Provision for integration with tools for the management of electronic/digital/online resources and	MR	
	licenses, including Knowledge Base+, GOKB and local home-grown sources in formats such as		
	csv and txt. Please describe in detail how you achieve such integration.		
	Integration with selection and acquisition workflows for past and present details of subscriptions.	MR	
	Please supply examples, e.g. activation of trials, renewals, deactivation of cancellations.		
	Ability to import subscription data from subscription agents, e.g. Swets and EBSCO. Please	MR	
	describe any processes you have in place with suppliers to achieve this.		
	Provide information about Knowledge Base coverage based on current resource coverage data	MR	
	supplied by institutions (see Annex 2, 'Knowledge Base').		
	Ability to find resources in the Knowledge Base by the following;	HDR	
	Supplier/vendor		
	• Title		
	• Author		
	Package/Database Name		
	• ISBN/ISSN/DOI/EISSN		
	• Internal object id		
	• Keyword		
	Please indicate which of these fields are available in Knowledge Base search and also list any		
	others.	140	
	Provide a test instance of the Knowledge Base for testing purposes.	MR	
	Provide RSS/API feeds from the Knowledge Base to be consumed by other institutional services	DR	
	to advise of downtime, renewal dates.		

,	HDR
e.g. For reporting of issues, best practice hints, supplier/vendor contacts.	
Knowledge Bases for Print and Electronic/Online Resources: Publication information	
	HDR
instances and relationships between these.	
Support for a Knowledge Base that represents print and electronic/digital/online covering subscription and 'free to access' collections. Specifically, support the following resource types in the Knowledge Base; • electronic/digital/online journals (Individual online/digital journals, newspapers, and other serials;	MR
journal packages; selective packages) • single and multi-volume print monographs	
digitised book chaptersphysical journals	
bound journal volumes	
 monograph series databases (full text, A&I, datasets & maps, reference) 	
• ebooks (individual, PDA, packages and databases)	
• composite e-resources, e.g. LION which contains full text book chapters, journals, reviews,	
images.	
e-resource management tools, e.g. JUSP	
• research tools, e.g. RefWorks	
• repositories	
• web sites	
Describe your Knowledge Base in detail with reference to the above. If you have separate knowledge bases for different resources, please explain why.	
71 1 7	
Knowledge Base for Print and Electronic/Online Resources: Holdings & Rights	
Record of what specific parts (e.g. years, volumes) of publications an institution has the right to access.	MR
Enable print holdings to be recorded.	MR
Enable electronic/digital/online holdings to be recorded.	MR
	HDR
ŭ i ŭ	HDR
or holdings (archival/current/both) transfer to a different platform.	
	MR
creation/deletion of these resources in resource discovery in real time or near real time.	

Support for KBART file import and export of resource packages.	MR
Please provide information on how the Knowledge Base is managed and updated to provide accurate and timely information.	
and access entitlements (e.g. change of publisher; additional titles in a package; new back files made available).	
Ensure that the necessary systems are updated when there are changes to publishers, platforms	MR
Knowledge Bases for Print and Electronic/Online Resources: KB update	
e.g. As acquisitions team manager, I want to know when the main contact changes for a supplier so that I can use the new information when I contact the supplier/vendor.	
Allow library staff to link their profiles to supplier records e.g. for notes and alerts.	HDR
Support for linkages between institutions e.g. consortium members.	HDR
Support for hierarchical membership linkages within organisations e.g. departments/colleges/schools within an institution.	HDR
organisation data your system is able to record.	
agents, archival platform providers) including key contact information. Please describe in detail which of the above is recorded in your system, and list any other	
(institutions and their divisions e.g departments/schools/colleges), intermediaries (subscription	
Knowledge Base to include organisational data on supply side (publishers), demand side	HDR
Knowledge Bases for Print and Electronic/Online Resources: Organisations	
we know which titles we can cancel without cancelling the whole package.	
e.g. As a subscriptions manager I want to mark 'core' titles as defined by a supplier/vendor so that	
Ability to mark which titles in a package are 'core' titles.	HDR
	HDR
Recording archival access rights at title and package level and other relevant information such as LOCKSS and Portico participation.	HDR
Ability for Knowledge Base to hold details of access at article level e.g. in hybrid open access/subscription journals.	HDR
e.g. As a library user I want to see where print full text is available of an article I found in an abstracts only database	
Enable linking of print holdings data to related metadata from database subscriptions	DR

Λh	oility to manually or automatically export print/electronic/online packages or titles with associated	IMP I
	etadata. Describe processes available to import/export data in order to support the	IVIIX
	int/electronic/online resources lifecycle.	
	ility to export a regular file to Google Scholar in the format required in order to provide up to	MR
	te holdings to Google Scholar.	IVIIX
	plain how deduplication is carried out as part of KB updates.	HDR
	plain the process for global deletions in the global Knowledge Base.	HDR
	ovision of reports for global Knowledge Base updates including	HDR
	ditions/amendments/deletions for both packages and titles.	
	oility to allow/disallow Knowledge Base updates to override local changes made to	MR
	ripts/parsers for a package or title.	
	oility to automatically activate new titles added to a package.	HDR
	oility for library staff to customise whether new titles are automatically added to a package and	DR
	insfer/ceased titles are automatically deleted from a package.	
lia	indici, deaded the date and automatically deleted from a package.	
Kn	nowledge Bases for Print and Electronic/Online Resources: Licence management	
1		
Cre	eate/read/update/delete both digital documents and terms expressed in structured format for	MR
	odel/standard licences, variants and addenda covering licences past, present and under	
	gotiation. Please describe how your system achieves this.	
		MR
	ccel, PDFs and URIs associated with the licence. e.g. scanned copy of licence or	
	rrespondence with supplier.	
	create/read/update/delete the internal statuses of licences as they are checked, approved and	HDR
	gned by appropriate representatives (within an institution and by other relevant agencies).	
To	create/read/update/delete alerts related to the internal status of licences (e.g. to create a	HDR
	minder to chase a signatory to a licence if not processed within a set timescale).	
	create/read/update/delete alerts related to the term of licence agreement (e.g. date on which	HDR
lice	ence term ends).	
Pro	ovide tools to report on licensing terms and compare licences.	HDR
Wł	hen viewing licences, the ability to display only those fields that the library uses in a licence	DR
rec	cord.	
Ab	oility to link the constituents of a package to the licence terms of that package.	MR
	oility to track the status of a licence and its negotiation process.	HDR
	sility to manually create licence records.	MR
Ab	oility to create a licence record as part of the selection and acquisition workflow.	MR
Ab	sility to record notes relevant to licence management against a licence.	MR
Ab	oility to update a licence and the titles/packages linked to it e.g. a change in terms, additional	MR
title	es covered by a licence.	

Ability to alert nominated staff regarding expiry of licences before the expiry date, and to alert staff	HDR I
of any conditions associated with renewal.	
Make licence information available to other functional components of the system e.g. selection	HDR
and acquisition and resource discovery.	
Support the ONIX-PL schema for licences.	MR
Record terms of post-cancellation access and provide relevant information (e.g. details of the 'subscription period' which defines post-cancellation rights).	MR
Record restrictions on cancellation (e.g. requirement to maintain certain level of print spend, or replace certain etitles with others).	HDR
Ability to link multiple resources to a single licence. e.g. As a library staff member I would like to have a single record for a model licence and to be able to link this record to multiple packages so that we can maintain the model licence in a single place.	HDR
Record terms of Partner Organisation access and provide relevant information (e.g. fee schedule, terms and conditions).	HDR
	DR
Knowledge December Driet and Electronic/Online December Coming magnituding	
Knowledge Bases for Print and Electronic/Online Resources: Service monitoring	
Record and report interruptions to access to resources and other service issues (e.g. caused by supplier/vendor server downtime); driven by both central monitoring and local reports.	HDR
Ability to manually enter details of technical workarounds, temporary issues and resource advisories for display to library-defined groups of users	HDR
Facilitate RSS feeds to populate locally hosted networking software to advise of downtime	DR
Knowledge Bases for Print and Electronic/Online Resources: Local KB	
Ability to hold and customise Knowledge Base metadata at local level drawing metadata from global knowledge bases as required.	MR
Ability to create local records for packages/titles that do not exist in the global knowledge base	MR
Ability to locally customise scripts/parsers which provide connections between the Knowledge Base and OpenURL linking.	MR
Ability to locally override global coverage data for a title in a package.	MR

-			
	Ability to import knowledgebase metadata into locally held templates including pre-populated	DR	
	fields and mandatory fields.		
	e.g. As an E-Resource Manager I want to import metadata from Knowledge Bases and match to		
	our own templates. This enables me to identify and pre-populate licence fields based on resource		
	type with standardised text that is mandatory or widely applied across all resources, e.g.		
	'authorised users' statements, contact email address for licence queries, simultaneous users.		
	Knowledge Bases for Print and Electronic/Online Resources: Reporting		
	Identify by reporting partial or complete overlaps between packages subscribed to by an institution.	MR	
	Provide reporting mechanism to query and alter incorrect data within Knowledge Base.	HDR	
	and reporting meeting in a query and anor meeting and minimum and a great property and a grea		
	Knowledge Bases for Print and Electronic/Online Resources: Shared Knowledge Base		
	Provision of a global Knowledge Base of print/electronic/digital/online that is shared across the	MR	
	wider community.		
	Ability to access and share metadata for print and electronic/digital/online resources across	MR	
	institutions in a consortium.		
	Ability to hold and customise Knowledge Base metadata at consortium level drawing metadata	MR	
	from the central knowledge base as required.		
	Ability to record holdings and access to consortia/other shared agreements and negotiated	HDR	
	acquisitions.	MD	
	Ability to store institutional metadata in a local Knowledge Base and *not* contribute it at the consortium/community level.	MR	
		HDR	
	ensuring minimum unnecessary duplication across institutions; identifying gaps in holdings across		
	the sector and offering institutions insight into others activities.		
	e.g. As collection manager, I can see when another institution has successfully converted to e-		
	only access for a serial title.		
	Record of what specific parts (e.g. years, volumes) of publications a consortium has the right to	MR	
	access with these holdings/access rights being cascaded to the institution level.		
9.0	Document delivery and Inter-library loans		
	Document delivery: General		
			

	ent delivery and ILLs to be integrated with the rest of the system, including resource	HDR
	ery (for library users to input requests and view request progress).	
	support for the ISO 10160/10161 ILL protocol.	HDR
	t for the current procedures, workflows and formats specified by the British Library	MR
	ent Supply Centre (BLDSC). Please describe your approach to working with the BL to	
	current and future compatibility with their ILL system, and how the costs for any changes	
are mar		
	ated communication with the BL ILL systems.	MR
		DR
	of materials and management of permissions requests.	
	e an integrated document delivery module with the ability to view requests from other	HDR
	s, e.g. circulation.	
	tion with circulation to manage lending of items to library users, including setting of loan	HDR
	s, sending overdue notices, fines.	
	a member of library staff, I want to view records of library user ILL material loans alongside	
	er's loans of print material.	
	be how the system integrates with resource discovery systems.	HDR
	o grant permissions to groups of library users to use document delivery services.	HDR
	o include authorisation steps in the document delivery workflow.	HDR
	describe how the inclusion of authorisation steps in the document delivery workflow is	
achieve		
	t for management of document delivery requests from other libraries for our own items	HDR
	ng the circulation control of those items.	
	s for supplying libraries are searchable by code and library name.	HDR
	, , , , , , , , , , , , , , , , , , , ,	HDR
notices.		
	o archive completed requests with access for authorised staff for a period defined by the	MR
	and to be searchable.	
_	a library staff member, I need to retain ILL data for 7 years to comply with copyright	
requirer	ments.	
Docum	ent delivery: Request process	
	o allocate a unique request number as each request is created on the system.	MR
	o add supplier/vendor unique request reference number if required.	MR
	, , , , , , , , , , , , , , , , , , , ,	HDR
	plier/vendor able to deliver.	
	o create a barcode for issue purposes on loanable items.	HDR
	o check eligibility to place requests (by library user group) and recognise any blocks on the	HDR
library ι	user which may prevent the request.	

Allow a system limit to be set on the number of concurrent requests from any library user (by	HDR
library user group), with an overall limit over a library-defined period of time.	
Provide a range of customisable templates for entering requests (for monographs, serials, serial	HDR
articles, theses, conferences, unique materials).	
Provide the ability for a library user to read and agree to a copyright declaration.	DR
Capability for secure online submission of requests by library users.	MR
Please describe process for library users to place online requests.	
Allow library users to specify a collection point for physical items.	HDR
Allow library user requests to be created by importing data from other services e.g. OpenURL data	HDR
and resource discovery records.	
Allow library staff to amend the bibliographic and other request details before and after	HDR
transmission of a request.	
Allow for checking requests against local collections and other libraries within the ILL workflow.	MR
Allow for the creation of library defined and prioritised groups of libraries or collections against	HDR
which to check.	
Allow for special requirements to be added to requests, e.g. loan essential, translation only.	HDR
	HDR
concerned.	
Allow automated checking of document delivery/ILL requests against own library catalogue at	HDR
point of library user sending request, with immediate feedback to the library user as to where they	
can find the item.	
Allow automated checking of document delivery/ILL requests against other specific open access	HDR
and freely available targets (e.g. Google Scholar) so that requests can be fulfilled from existing	
stock or freely available stock (with primary target own library catalogue).	
Allow library staff to access the request record in a number of ways, including from the	HDR
bibliographic record.	
Ability to view ILL items from a single user on loan, outstanding requests, request progress	HDR
reports and request status and full request history in one location.	
Ability to sort requests by a variety of fields including request number, create date,	HDR
submission/transmission date, last modified date, fund, requester, library, status.	
Support for the electronic transmission of requests to BLDSC via protocols specified by the	HDR
organisation (e.g. ARTEmail) and the option to print or e-mail requests to other libraries if	
required.	
Ability to detect and report transmission errors in requests.	HDR
Ability to amend and retransmit request files.	HDR
Ability to change lenders for outstanding requests.	HDR
Ability to revive a cancelled request or to re-request a wrongly-supplied item.	HDR
Ability to suppress document delivery/ILL items from resource discovery.	HDR

Ability to automatically re-apply to BL for material	HDR	
e.g. As a document delivery team member, I often have to re-apply in response to BL needing		
more information).		
Record and make available to the BL (where applicable) the requester's postal and email	HDR	
addresses for the direct delivery of photocopied articles and electronic/online items.		
	HDR	
Recognise standard BLDSC report codes and translate them to appear as text on the system.	DR	
Allow free text reports to be input and for standard reports to be amended as necessary.	HDR	
	HDR	
staff, which may be printed, e-mailed, and/or displayed on resource discovery (for library users).		
A library user initiated digitization request triggers an alert and a pick slip at a specific digitization location.	HDR	
Document delivery: Receiving and lending		
Record the receipt of all document delivery items e.g. photocopies/Secure Electronic Delivery for retention and items for loan or use in the Library (with date of receipt automatically recorded).	MR	
	HDR	
Ability to "unreceive" an item where it has been received incorrectly (e.g. as a	HDR	
photocopy instead of a loan), or received in error		
Ability to amend the supplying library if different from the library from which the item was originally requested.	HDR	
Record the direct delivery of documents to the library user e.g. from BLDSC (as reported by BLDSC).	HDR	
Produce requester's address in label format for sending out document delivery items.	DR	
	LIBB	
Allow for origoing control of reference and loan items (issue, renewal, recall, return, overdues,	HDR	
fines) via the circulation function, with specific parameters for such items, e.g. loan periods, fines, notices.	HDR	
fines) via the circulation function, with specific parameters for such items, e.g. loan periods, fines, notices.	HDR	
fines) via the circulation function, with specific parameters for such items, e.g. loan periods, fines, notices. Allow a default due date to be set for each lending library (library-defined) for loan items, and for 'issuing' items to be used in the library.	HDR	
fines) via the circulation function, with specific parameters for such items, e.g. loan periods, fines, notices. Allow a default due date to be set for each lending library (library-defined) for loan items, and for 'issuing' items to be used in the library. Take account of closed days when calculating return dates.	HDR HDR	
fines) via the circulation function, with specific parameters for such items, e.g. loan periods, fines, notices. Allow a default due date to be set for each lending library (library-defined) for loan items, and for 'issuing' items to be used in the library. Take account of closed days when calculating return dates. Ability to create a loan period that includes both a return date and an automatic extension (subject	HDR HDR	
fines) via the circulation function, with specific parameters for such items, e.g. loan periods, fines, notices. Allow a default due date to be set for each lending library (library-defined) for loan items, and for 'issuing' items to be used in the library. Take account of closed days when calculating return dates. Ability to create a loan period that includes both a return date and an automatic extension (subject to recall) in line with lending policies of other institutions e.g. BLDSC lending policy. Requester is alerted on receipt of an item, with details of collection point, due date, renewal	HDR HDR	
fines) via the circulation function, with specific parameters for such items, e.g. loan periods, fines, notices. Allow a default due date to be set for each lending library (library-defined) for loan items, and for 'issuing' items to be used in the library. Take account of closed days when calculating return dates. Ability to create a loan period that includes both a return date and an automatic extension (subject to recall) in line with lending policies of other institutions e.g. BLDSC lending policy. Requester is alerted on receipt of an item, with details of collection point, due date, renewal conditions, and whether item is for use in the library only.	HDR HDR HDR	

Document delivery: Renewals		
Able to hold details of receipt and loan of materials and manage the manual and automatic	MR	
renewal of loans.		
Allow for the transmission of the renewal request to other libraries.	HDR	
Ability to trigger renewal notice option for users.	DR	
Document delivery: Chasing and cancellations		
Generate and record automated chasers according to library-defined parameters including in	HDR	
response to supplier/vendor alerts.	TIBIC	
Ability to prevent automatic chasers on specific requests.	HDR	
Ability to generate manual chasers on specific requests.	HDR	
Option to allow for document delivery requests to be cancelled by library staff.	MR	
Allow for logging the reason for the cancellation.	DR	
Option to generate cancellation notices to suppliers and requesters (e.g. items on a British Library waiting list).	HDR	
Document delivery: Charges and funds		
Ability to record charges imposed by document delivery suppliers.	MR	
Support for deposit and billing accounts.	DR	
Ability to setup multiple accounting methods for one supplier.	HDR	
Allow funds to be set up for document delivery/ILL which are integrated with acquisitions funds.	HDR	
Capability to recharge and record charges/renewal charges for both library users/cost centres in	HDR	
Support budget allocation, voucher system and invoicing split by department/section.	HDR	
Document delivery: Loans to other libraries		
Provision of a facility for loaning to other libraries.	HDR	
Control of loans (issue, renewal, recall, return, overdues) using library-defined parameters integrated with fulfilment policies.	HDR	
Document delivery: User communication		
Alert to requesters to advise on the following – arrival, renewal confirmation/refusal, delay, recall, overdue, request for further information, status of requested material (e.g. library use only).	MR	

	Ability to alert library users of status of request of material e.g. library use only.	HDR	
	Alerts sent to library users by e-mail or print, and also appear to library users' in resource	HDR	
	discovery.		
	Document delivery: Shared systems		
	Support for document delivery between institutions.	DR	
	Option for institutions to participate or opt out of any resource sharing schemes.	DR	
10.0	OpenURL linking and resolution		
	Ability to use institutional host names for services.	HDR	
	Please describe your approach and solution to OpenURL link resolution.	MR	
	Support for OpenURL 1.0.	MR	
	Backward compatibility with OpenURL 0.1	MR	
	Support for the presentation of options where an OpenURL resolves to a number of possible	MR	
	items.		
	Ability to customise the OpenURL resolution interface/menu offered to library users based on a	HDR	
	library-defined lists of preferred/weighted full text resources.		
	e.g. As a library system manager I want to be able to define the priority order of full text resources		
	that are presented to our users. For instance, full text e-journal packages should always be		
	presented first, then full text aggregator databases and then e-journal archives.		
	Ability to customise the OpenURL resolution interface/menu to offer library users a full menu or a	HDR	
	link direct to a resource based on a set of library-defined rules, e.g. if no full text, display link to		
	document delivery service		
	e.g. As a library system manager I want to have the flexibility offer a full range of options on the		
	interface/menu or a direct link to the 'best' option as selected by the library-defined rules.		
	Capability of the system to augment the OpenURL metadata content.	HDR	
	e.g. As a library user I want metadata to be enhanced via CrossRef where this metadata is		
	available.		
	Provide the ability to export data to other sources from the library user interface/menu. Please	HDR	
	explain how this would be achieved.		
	e.g. As a library user I want to be able to export data from the interface/menu to a reference		
	management database.		

		T		$\overline{}$
	Ability to configure proxy service for use with OpenURL linking (EZproxy, OpenAthensLA proxy, WAM).	MR		
		HDR		\dashv
	pages.	ПОК		
	e.g. As a web developer, I want to ability to call the OpenURL menu live data from an API so that I		l	
	can display the menu in resource discovery instead of needing to store this data in the resource		l	
	record.		l	
		HDR	i	\dashv
	OpenURL. Describe how the system looks up coverage for both print and online holdings to	ПОК	l	
ĺ	decide what options to display in the menu.		l	
<u> </u>	Describe error reporting facilities that are available in the OpenURL library user menu.	HDR	i	+
1	e.g. As a library user, I want to complete a form with my contact details and a note explaining an	TIDIX	l	
l	issue I am having with accessing the content in the menu. Library staff should then be alerted to		l	
i	my issue and provided with data about the issue so that they can respond.		l	
		HDR	ſ	_
1	panel as required.	TIDIX	l	
1	e.g. As an OpenURL administrator, I would like to be able to offer library users relevant additional		l	
ĺ	information in the OpenURL response panel that assists with resource discovery, e.g. warnings		l	
İ	about embargoes or scheduled downtime.		1	
	Ability to retain current service name and hostname for OpenURL service to avoid migration	HDR		7
1	issues.			
				7
11.0	Management information and analytics			4
				7
<i>-</i>	Management information and analytics: General	T		→
•	Management information and analytics: General			
<u> </u>	Management information and analytics: General			\dashv
		MR		+
	Inbuilt web-based reporting and analytics tools which allow Library staff the ability to generate reports and queries.			
	Inbuilt web-based reporting and analytics tools which allow Library staff the ability to generate reports and queries. Ability to design, build, save, edit and run complex queries that combine multiple fields in the	MR MR		 - -
	Inbuilt web-based reporting and analytics tools which allow Library staff the ability to generate reports and queries. Ability to design, build, save, edit and run complex queries that combine multiple fields in the underlying database.	MR		- - - -
	Inbuilt web-based reporting and analytics tools which allow Library staff the ability to generate reports and queries. Ability to design, build, save, edit and run complex queries that combine multiple fields in the underlying database. Ability to run searches across all database tables and fields.	MR HDR		
	Inbuilt web-based reporting and analytics tools which allow Library staff the ability to generate reports and queries. Ability to design, build, save, edit and run complex queries that combine multiple fields in the underlying database. Ability to run searches across all database tables and fields. Ability to export query data into a variety of formats, in particular CSV, TXT and Excel.	MR		-
	Inbuilt web-based reporting and analytics tools which allow Library staff the ability to generate reports and queries. Ability to design, build, save, edit and run complex queries that combine multiple fields in the underlying database. Ability to run searches across all database tables and fields. Ability to export query data into a variety of formats, in particular CSV, TXT and Excel. Please describe how query data can be exported.	MR HDR MR		
	Inbuilt web-based reporting and analytics tools which allow Library staff the ability to generate reports and queries. Ability to design, build, save, edit and run complex queries that combine multiple fields in the underlying database. Ability to run searches across all database tables and fields. Ability to export query data into a variety of formats, in particular CSV, TXT and Excel. Please describe how query data can be exported.	MR HDR		
	Inbuilt web-based reporting and analytics tools which allow Library staff the ability to generate reports and queries. Ability to design, build, save, edit and run complex queries that combine multiple fields in the underlying database. Ability to run searches across all database tables and fields. Ability to export query data into a variety of formats, in particular CSV, TXT and Excel. Please describe how query data can be exported. Ability for export formats to preserve Unicode.	MR HDR MR		
	Inbuilt web-based reporting and analytics tools which allow Library staff the ability to generate reports and queries. Ability to design, build, save, edit and run complex queries that combine multiple fields in the underlying database. Ability to run searches across all database tables and fields. Ability to export query data into a variety of formats, in particular CSV, TXT and Excel. Please describe how query data can be exported.	MR HDR MR		- - - - - - - - -
	Inbuilt web-based reporting and analytics tools which allow Library staff the ability to generate reports and queries. Ability to design, build, save, edit and run complex queries that combine multiple fields in the underlying database. Ability to run searches across all database tables and fields. Ability to export query data into a variety of formats, in particular CSV, TXT and Excel. Please describe how query data can be exported. Ability for export formats to preserve Unicode.	MR HDR MR		

Ability to share query design with other institutions, to reduce the overhead of building standard or specialist queries from scratch.	HDK
	LIDD
Management information and analytics: Data and query design	
Allow Business Objects to be used as an additional reporting tool.	DR
Allow Crystal Reports to be used as an additional reporting tool.	DR
work through and then return to me.	
e.g. As a library staff member, I want to produce a list of items for another library staff member to	
Ability to use previous report outputs in new reports	DR
(or ideally to create custom views to navigate through lists of reports).	
	HDR
staff should be able to run or amend my reports.	
e.g. As a library staff member, I want access to an area where I can publish reports. Other library	
	HDR
Ability for library staff to create reports that are only visible to them.	HDR
Access to pre-configured SCONUL reports.	DR
Access to a range of pre-configured reports, written to cover common query types.	HDR
different operational areas. Ability for library staff to configure various dashboard reports tailored to their needs.	HDR
 Ability for the system to maintain and display 'at a glance dashboards' of key indicators for	HDR
scheduled emails.	
Ability to automate the generation of reports, with an ability to schedule reports to run at set times, as well as to automatically send copies in the form of spreadsheets, charts, or raw data, via	HDR
requests, items currently loaned to other institutions, average time from request to supply).	
Interlibrary-loan and document delivery information (e.g. requests sent/received, outstanding	HDR
reading lists; loans by department; numbers of renewals/loans by self-service/ staff interface; transactions by hour / minute of day; transactions by library user;	
Circulation and user information e.g. most popular books; most requested titles; usage of items on	
Stock control information e.g. long overdue items; items reported missing;	HDR
Financial and budget reports e.g. current/committed spend per fund, spend per resource type;	MR
Workflow analysis e.g. time to order books from suppliers/vendors, number of books catalogued by date / operator;	HDR
range; date of publication; date of acquisition; date and type of cataloguing; date of circulation;	

		HDR
	(APIs, SIP2 protocols; database connections; SQL; web service XML), allowing us to display and	
	use information directly in third party applications and systems.	
	Ability to track when reports are run and by whom, with an ability for the Library to limit access to	HDR
	particular report types, datasets, or fields, based on staff profiles.	
	Ability to load data taken from third-party systems, for example usage statistics for e-resources, or	HDR
	cost data from Library suppliers.	
	Ability to configure automated harvesting of e-resources usage data from third-party systems,	HDR
	especially for e-resources.	
	Support for SUSHI protocols.	HDR
	Ability to combine harvested data with system data, to produce analysis reports.	HDR
	e.g. As a library staff member, I want to combine e-resource usage data with cost data recorded in	
	the system, to produce cost-per-use reports.	
	Retain circulation information after deletion of library user data, including but not limited to the	HDR
	following information: titles issued, lost, overdue, fines created/paid, library user group info and	
	department.	
	a baranona	
	Management information and analytics: Shared	
	management information and analytico. Onaroa	
	Ability to report on resource usage on a consortia level.	HDR
	Ability to share query design with other consortia members, to reduce the overhead of building	HDR
	standard or specialist queries from scratch.	
12.0	System architecture and security	
	System architecture and security: General	
		MR
	read-only APIs, < 3 seconds for a catalogue search, < 5 seconds for the checkout of a catalogue	
	item and < 10s for updating account data, to be met under the peak load of all Consortium	
	members.	
	If we need to add/remove capacity, what are the options for scaling up, down or out? Provide	MR
	costs and lead times.	
	Describe the routine tasks (e.g. data purge) required in order to maintain the performance and	HDR
	scalability characteristics above, given the expected lifetime of the implementation.	
	grands and a grant and expected mediate of the implementation.	
	Describe how will the tasks identified be triggered, who is responsible for performing them, and	
	what impacts might be expected on the system if they were not performed.	
	Twiter impacts might be expected on the system it they were not performed.	

The system should be unavailable to users for less than 1 hour per calendar year. Please state typical periods of unavailability expected to be experienced by users during upgrades. If cloud hosted, please give recent uptime figures.	MR
As a minimum, the system must be completely available to users during normal office hours (08:30 - 17:00 GMT/BST) M - F excluding UK Bank Holidays. All scheduled outages should be outside of these hours.	
Describe how the system proposed is engineered, managed and operated to meet or exceed these requirements.	
The system and its interfaces must be wholly addressable via a fixed set of URLs that are unique to a given client or tenant, in order to allow whitelist filtering. The preferred solution is that all required URLs for a given institution would be rooted under the same Authority Component (as defined in RFC 2396); for example, all URLs could be of the form "https://librarysystem.cardiff.ac.uk/xxx/yyy".	HDR
URIs/URLs should be clean, readable and shareable via copy/pasting (i.e. not reliant on session data). URIs that are often copied from a browser and pasted into a document should not have to extend over multiple lines because this makes a document difficult to read if it is full of them. Persistent URIs are needed because pages in a system often get moved around and restructured so, it should always be possible to refer back to them. Give a typical example of frontend URLs of content item in the system.	HDR
The set of URLs required must be subject to Change Control procedures such that the customer is able to update URL whitelists before URLs are used within the system	HDR
Supplier to provide details of any specific network / security requirements to enable access from secure networks e.g. identify ports used by the system that may need opening - it is preferred that all access be via HTTP or HTTPS on the standard ports tcp/80 and tcp/443. Confirm that these are also subject to Change Control procedures so that customers can be advised to update firewalls before such requirements are changed.	MR
Any information transmitted to, or received from, a Payment Gateway Provider secured via HTTPS.	MR
Personal data encrypted during transmission (SSL or TLS).	MR
The system must have sufficient logging or monitoring to detect and alert operational errors, and ideally predict them. State what type of information is available to the institution(s) and how it is accessed, for example, via log files or JMX/SNMP traps.	MR
It should be possible to restore a known configuration state of the system. State how configuration for the system is managed and how this would be achieved.	n HDR

must no authent barcode that acc "empty" options	stem must use institutionally managed usernames and passwords for authentication and of transmit user credentials unencrypted over any network. The preferred method for tication differs across institutions but include Shibboleth, OpenAthensDA, LDAP and e+PIN mechanisms. Logins that use federated authentication mechanisms should ensure count creation within the system is done automatically so that users are not logged into an 'account. Give details on the methods available and which is preferred by you if multiple are available.	MR
groups. users m may be		HDR
require is neces	e exception of library barcode and PIN, whatever authentication method is used should not credentials to be presented directly to the system, or to be stored within the system. If this ssary then describe how credentials are protected from interception, leakage and brute ttacks, as well as the mechanisms available for an institution to disable access to any given t.	
based o	stem should use role based authorisation. The preferred method is for authorisation to be on assertions from the authentication source, e.g. SAML assertions or LDAP groups. state how role-based authorisation is performed, along with any caveats.	HDR
Describ	be Single Sign-On approaches that the system supports and that have been implemented er customers.	HDR
· · · · · · · · · · · · · · · · · · ·	passwords should be supported. State which characters are permissible within an t's password, with specific focus on any characters that are not usable.	HDR
	tication should work on mobile interfaces, if different to the web interface. Describe any tication limitations.	HDR
encomp ownersh to asses	ble and detailed role-based access and security model is required. This will need to class a range of users, from individuals to senior management, and from those who have hip of/responsibility for existing corporate data to those who will use the data and reports so the implications of various strategic decisions.	MR
rights to record a through	be how the system allows the set-up of specific rights to specific roles and allocates access to various functions and data items (e.g. read/write access, access by user or group, field, and screen level security). Provide details of all the roles and responsibilities available at the access management of the system. Describe how this may be extended.	
	stem should have the ability to allow a user with administrative privileges to impersonate r user for debugging purposes. Describe how this is achievable and auditable.	HDR
	stem should have the ability to secure information in transit across a network. Describe s is achievable.	HDR

The API for creation, suspension and deletion of library staff and library user accounts should be:	MR
Fine grained	
Programming language agnostic	
Per event, as opposed to batch input	
Atomic operations which provide feedback on success/failure of action	
Describe what API is available, give code examples and confirm that it is possible to create or	
update 10000 users within 24 hours using the API.	
apadio 10000 dooro waliii 2 i flodio doing dio 7 d f.	
Ability to purge predefined sets of data, either manually or automatically via a pre-set schedule	HDR
according to data retention schedules and policies, in order to prevent the Library from	
unnecessarily storing the personal data of staff or students. This should be done in a manner that	
preserves the ability to report on key management information pertaining to circulation, while	
allowing for personally identifiable data to be removed. Please describe how this can be achieved	
and whether additional cost or configuration is required.	LIDD
	HDR
https://www.owasp.org/index.php/Testing_for_Logout_and_Browser_Cache_Management_(OWA	
SP-AT-007)	
The system should be free of OWASP top 10 vulnerabilities and the supplier should indicate	MR
whether they carry out regular penetration tests.	
https://www.owasp.org/index.php/Category:OWASP_Top_Ten_Project	
Operation and delivery of the service must be managed using an ISO27001 compliant Information	MR
Security Management System (ISMS).	
Please state whether the proposed service's ISMS has been certified to ISO/IEC 27001:2013.	
Describe the scope of the proposed service's ISMS.	HDR
Including any subcontracts used to deliver the service, provide any details on past security	MR
breaches or incidents leading to the leakage of data or financial loss. State whether you or your	
subcontractors have had to make a security breach notification to the UK ICO during the last five	
years, and if so, provide details.	
System architecture and security: Business continuity	
The system must have a comprehensive backup and restore process in case of a hardware or	MR
software failure.	
Please state how the system is backed up and subsequently restored and the Recovery Time	
Objective and Recovery Point Objective that this will deliver; the desired RPO is that zero	
transactions will be lost. Describe your backup strategy and retention policy, and how these are	
implemented and tested.	
Implemented and tested.	

	policy for the system including performance information in relation to backing up, recovery time and retention policy	MR	
Provide protection to recovery to the last w datacentre. Describe	enable business continuity in the event of incidents of system failure where rorking point is required, for example by providing failover to a second to how such protection is achieved, what the process is for invoking the anglis required to implement it.	re MR	
In the event of local of	or supplier level system downtime, or failure, provide a function capable of a in offline mode. Identify the transactions handled.	HDR	
Describe the backup Recovery Point Object	infrastructure that would deliver the achievable Recovery Time Objective active.	and MR	
transactions, and the	available for partial recovery of deleted or corrupted data and/or cost model for such requests, e.g. I want to recover data that was ast week, but I do not want to roll back the entire system.	HDR	
Describe the tools av to) checking the valid	ailable to maintain the data integrity of the system, including (but not limite lity of data items at the time of data entry. Confirm that data integrity repor or provided to, the university as required. Describe and provide examples	rts	
An audit trail must be made and by whom. user, action, date and	maintained for all changes and additions made to the system, when they specified users will be able to report on audit data including searching by d time. Describe and provide examples of the audit reports available. on policy for these logs.		

WHELF - Shared Library Management System Operational Requirements Annex 1 Optional Discovery - Confidential

PF=Pass/Fail, MR=Major Requirement, HDR=Highly Desirable Requirement, DR=Desirable Requirement

Requirement Requirement Rating Supplier Response Resource discovery (Optional) 13.0 Resource discovery: General Provide an overview of your resource discovery system and how it is integrated with the back office library management system.
Describe how the system imports or accesses institutional metadata records and institutional data for resource discovery. Please describe how you would maintain consistency with the source data and support real-time or near real-time updating of ibliographic data on the Discovery interface Describe how the system ingests and presents data from multiple metadata sources to MR resource discovery, based on library-defined parameters
Describe any unique capabilities available by using your resource discovery system in MR conjunction with your proposed library resource management system.

Describe any capabilities which are not available when using your resource discovery systems. with the back office library management system of other suppliers/vendors.

Describe your approach to resource discovery across a range of devices. Identify any addons required to support functionality with specific devices e.g. device 'apps'. HDR ibrary users should be able to access all resource discovery functionality across browsers ncluding but not limited to the following; Google Chrome, Internet Explorer, Apple Safari, Aczilla Firefox, Google Android Browser. Describe any limitations.
Describe in detail any searchable index of scholarly materials which is provided as part of your resource discovery system.

Provide full details of the agreements which you have in place with publishers/aggregators nelude their materials in the searchable index including scope and frequency of updates. Please include coverage of any known exclusions, e.g. publishers who have declined to Illow their content to be included.
Describe the level of metadata in any central index provided and any enrichm (e.g. TOCs). Ability to provide resource discovery interface in additional languages including but not MR mited to; Welsh. Explain the process by which additional languages are created and how translations can be updated as the resource discovery system evolves.

Ability for library users to indicate their preferred language when interacting with the syst Ability to switch language and remain on current page in the resource discovery interface Ability to handle languages that require entry of characters from right to left in resource HDR HDR Ability to handle entry of Unicode characters in resource discovery search forms. Resource discovery: Interoperability Ability for the user to initiate services from resource discovery including but not limited to the ng: digitization on demand, Patron-Driven Acquisition (PDA), document delivery/ILL requests and access to items on a reading list service. Please identify which of these services you are able to provide and explain how the processes work.

Ability for library users to be able to access all their library account information (e.g. fines, oans, requests) outside resource discovery interface. e.g. Student hub, Virtual Learning Environment Provide a mechanism to embed a resource discovery interface to search and present results n other environments, e.g. Student hub, VLE to have multiple customizable resource discovery views/interfaces. HDR e.g. for kiosks for walk-in users Orders to be visible within the re within the resource discovery interface in real time or near real time after HDR they are placed on the library management system. escribe how you display real time circulation data about items in resource discovery Resource discovery: Navigation Ability to include contact details for frontline services and/or the opportunity to provide HDR feedback as required at various points in the interface.

Ability to provide links to other institutional services as appropriate within the interface e.g. HDR archives service, repository.

In the event of a zero result set, or unsatisfactory results, provision of guidance on HDR expanding or redesigning the search. Resource discovery: Personalisation / personal account Optional ability for online user self registration by providing a customisable form, or a mechanism so that the library can setup their own online form e.g. Where permitted, library users will register online via an online library defined registration form. National Library of Wales uses a postcode checker to create All-Wales access to e-journals for registered National Library users. Ability to limit personal information displayed in library user record. HDR e.g. not display contact details. Ability to change library user PIN number from library user account if PIN option is activated. HDR Authentication to resource discovery to not require an additional login to access personal details over and above institutional login. Library users can request renewal of all items or selected items they have on loan and MR following a successful renewal to be informed of the new due date of the item. ibrary users can view information about items they have on loan, saved searches. pending/fulfilled requests and fines/fees outstanding, and borrowing history. Library users can pay a fine/fee from their library user account, e.g. a library user can be securely passed from the discovery layer, to a third party payment gateway in order to pay ines/fees by credit/debit card. A successful payment to then pass back details in order to update the user's account accordingly.

Library users can associate a 'Home' library with their library user account. This can be used as a default location for collection of requests and to assist in sorting their results Ability to produce personalised item recommendations for authenticated library us HDR on data about them e.g. course/modules of study, type of student/staff, level of study. Ability for library users to post mediated reviews and ratings.

Ability to be alerted to the arrival of new items (as defined by library user) by date of arrival, HDR subject area or classmark range e.g.by RSS feed or web page Library users can form virtual networks and communities to share/receive iten endations Ability to interface with other social networking tools such as Twitter and Facebook, e.g. sen-HDR a tweet from the system when you've read a book Describe any gamification features (for example, OpenBadges or LibraryGame) provided DR

To	I
Ability for library users to create, read, update and delete favourite items in their library user account.	MR
Ability for library users to create, read, update and delete searches in their library user	HDR
account. Ability for library users to review and run saved searches at a later date in their library	HDR
account.	
Ability for library users to setup alerts to re-run their saved searches automatically and email the results.	HDR
Ability for authenticated library users to tag records for individual and group use.	HDR MR
System administrators to be able to read, update and delete content created by library users in resource discovery, e.g. reviews, tags.	MIK
Descurse discourse Course	
Resource discovery: Search	
Describe how the resource discovery system supports an integrated search of different resources including but not limited to; local catalogue, archive and digital records, remote	MR
resources.	
If the system supports federated search, describe how new or changed connectors are managed in the system.	HDR
Provide options for refining searches and other advanced search functions to help library	MR
users improve the specificity of their results and to expand their search to retrieve more items, e.g. facets, alternative search terms	
Ability to apply a pre-search limit to particular libraries and/or institutions.	HDR MR
Provide post search facets for library users to refine their results by collections, library, location within a library, format, call number, author/corporate author, language, genre,	INIX
region and year of publication. Please identify from the following list how library users can browse titles alphabetically;	HDR
rease identify from the following list flow library users can browse titles alphabetically,	nuk
• subject • author	
• title	
call number/classmark Pre-search facets to allow a user to browse across a broad subject area, e.g. Library of	HDR
Congress headings.	
Library users can use truncation and wildcards to refine searches. Describe truncation and wildcard searching functionality	MR
Provide spell checking functionality for searches throughout the resource	MR
discovery interface. Provide an advanced search option, which allows use of Boolean logic, selection of fields to	DR DR
be searched using different search terms and pre-limiting of the search by broad subject	
area, year of publication, language and format. Describe what is available.	
Ability for search strings containing misspelt terms to prompt "did you mean" alternative	HDR
search suggestions, and present an option to the user to return results that include suggested alternative search terms.	
"Did you mean" available for multiple languages	HDR
Ability for searches to include synonymous terms not included in the entered search. A search results summary makes clear to users that the search includes synonyms.	DR
Synonyms available for multiple languages. Describe options for adding thesauri in one or more languages that will enable the "Did you	HDR DR
mean" and synonym points above.	
A history of previous searches carried out during the current browser session is available to the library user until they log out or close their browser.	HDR
Provision to include indexed tables of contents, abstracts and other searchable enriched	HDR
content, e.g. Syndetics ICE or similar Provide details of any onscreen help functions available.	DR
Resource discovery: Search results	
Provide relevance ranking for search results. Describe how the ranking is carried out by the	MR
System. Ability for the library user to change the sort order by relevance ranking, date	HDR
descending/ascending, call number, author, title. Later editions of monograph titles to rank above earlier ones so that library users see the	HDR
later ones first.	
Results should be deduplicated where appropriate. Describe how deduplication is carried out in resource discovery, and how duplicate records are highlighted and presented in search	t HDR
results.	
Library users receive a list of matching items as they type their search terms. Library users can sort search results alphabetically, by subject, author, title and by call	DR MR
number.	
Please list all sorting options that are available with particular reference to the above list.	
Ability for library users to export items in their favourites or in result sets to a range of	HDP
formats and services including but not limited to; print, email, RIS, RefWorks, Refworks Flow,	HDR v,
EndNote, EndNote Web.	
 Please list all record options, with particular reference to the above list.	
Where records in search results originate from external sources, the origin of each record is displayed and is available as a hyperlink.	HDR
Record format to be indicated by a text label or icon, e.g. print/online book/journal; AV	HDR
cassette, DVD, CD, legal deposit. Record displays for physical items to include location and real time availability information,	MR
and links to make requests for the items if library defined conditions are met	
e.g. As a library system manager I want to see a request link for physical items in resource	
discovery if items are 'requestable' as defined by the library. For example, if no copies are	
available on the shelf that are borrowable.	
 Provision of information on multiple copy availability.	HDR
e.g. 20 in stock, 10 currently available.	
Ability to display copy numbers (where present) for multiple items. Ability to display a suitable library customisable map for a physical item showing the location	HDR HDR
of the item.	
Ability to display a suitable library customisable map for a physical item down to the level of shelving bay based on metadata about item i.e. library where it can be found and its	DR
classmark or shelfmark.	Luna
Search records include alternative fulfilment options e.g. interlending options, Google Books,	s, HDR
WorldCat, Amazon.	
Support predictive fulfilment e.g. 'not currently available, will be available in 3 days'.	HDR
Support predictive fulfilment e.g. 'not currently available, will be available in 3 days'. Support for smart fulfilment based on information available to resource discovery including	HDR MR
Support predictive fulfilment e.g. 'not currently available, will be available in 3 days'. Support for smart fulfilment based on information available to resource discovery including information about an authenticated user e.g. user type, user 'home' location. Describe options for presenting users with ability to refine results sets by type, e.g. Available	MR
Support predictive fulfilment e.g. 'not currently available, will be available in 3 days'. Support for smart fulfilment based on information available to resource discovery including information about an authenticated user e.g. user type, user 'home' location.	MR
Support predictive fulfilment e.g. 'not currently available, will be available in 3 days'. Support for smart fulfilment based on information available to resource discovery including information about an authenticated user e.g. user type, user 'home' location. Describe options for presenting users with ability to refine results sets by type, e.g. Available in the library / Peer reviewed resources / Resources with full text availability	MR HDR
Support predictive fulfilment e.g. 'not currently available, will be available in 3 days'. Support for smart fulfilment based on information available to resource discovery including information about an authenticated user e.g. user type, user 'home' location. Describe options for presenting users with ability to refine results sets by type, e.g. Available in the library / Peer reviewed resources / Resources with full text availability. Provide functionality based on data internal to the system for library users to see items that are similar to an individual title they are viewing in order to aid their discovery process. e.g. As a library user when I find a title I want the system to show me other similar items	MR HDR
Support predictive fulfilment e.g. 'not currently available, will be available in 3 days'. Support for smart fulfilment based on information available to resource discovery including information about an authenticated user e.g. user type, user 'home' location. Describe options for presenting users with ability to refine results sets by type, e.g. Available in the library / Peer reviewed resources / Resources with full text availability Provide functionality based on data internal to the system for library users to see items that are similar to an individual title they are viewing in order to aid their discovery process.	MR HDR

	Integration with or provision of recommender services, e.g. 'if you liked this, you may also	HDR	
	like this', or "people who borrowed this, also borrowed this". Please outline any		
	partnerships in place to provide recommender services within the system if it is not your own		
	product.		
	Resource discovery: Requests/Fulfilment/Delivery		
	Library users can place a title level request on a monograph title.	MR	
	Library users can place a volume/issue level request on a serial title so that they can obtain	MR	
1	the item. Library users can place inter library loan (ILL) or document delivery requests for items not	HDR	
	held within the local catalogue.	אטוג	
	Requests to be accepted if the library user doesn't already have a copy of the item on loan.	HDR	
	1. 10485516 to 50 accepted it the library agent decent already have a copy of the literal officials.		
	Requests to be accepted if the library user doesn't have a current request for the item.	HDR	
	Library users can cancel a request on a title/item and receive confirmation that this has been	MR	
	successful.		
	Library users can see when an electronic/online resource with restricted simultaneous	DR	
	access will next be available, and request a time-slot for reading online through the discovery		
	interface without having to visit the suppliers website.		
	Resource discovery: Record display detail		
<u></u>		L	
	Ability to see the "raw data" of a record, e.g. MARC, DublinCore, or XML view of a record as	HDR	
	appropriate.	LIDD	
	Text labels to be fully customisable to allow the creation of accurate and consistent labels in	HDR	
-	the resource discovery interface. Ability to configure the lock and feel of record display page including the ability to decide	HDR	
1	Ability to configure the look and feel of record display page including the ability to decide	אטוו	
	which bibliographic metadata to display. Ability to offer user functionality developed from RDA.	HDR	
	Assume to other user furnationality developed from NDA.	אטוו	
	e.g. ability to display relationships between FRBR entities on RDA records. Provide details of		
1	how search result displays will		
	function in an environment containing both AACR2 and RDA records		
	Provision to include book covers, tables of contents and other links to enriched content in the	HDR	
	record display page.		
	Ability to create permalinks / deep links to individual records and result sets.	MR	
	Resource discovery: New items		
	Provision for the production of new book lists by location.	HDR	
	Support for RSS (and other) feeds for new items.	HDR	
	Library users should be able to view new items in the discovery interface by date of	DR	
<u> </u>	arrival, classmark range, or library.		
1	Resource discovery: Authentication	l	
	Provide information about the authentication protocols that your recourse discourse states	MP	
	Provide information about the authentication protocols that your resource discovery system	MR	
	supports, including but not limited to:	MR	
	supports, including but not limited to: • IP based authentication	MR	
	supports, including but not limited to: • IP based authentication • LDAP	MR	
	supports, including but not limited to: • IP based authentication	MR	
	supports, including but not limited to: • IP based authentication • LDAP • OpenAthensLA (Eduserv)	MR	
	supports, including but not limited to: • IP based authentication • LDAP • OpenAthensLA (Eduserv) • Shibboleth	MR	
	supports, including but not limited to: • IP based authentication • LDAP • OpenAthensLA (Eduserv) • Shibboleth • Library barcode and PIN from the LMS	MR	
	supports, including but not limited to: IP based authentication LDAP OpenAthensLA (Eduserv) Shibboleth Library barcode and PIN from the LMS EZProxy (OCLC) WAM Web Access Management (Innovative Interfaces Inc) Provide information about the granularity of authorisation available in your resource	MR MR	
	supports, including but not limited to: • IP based authentication • LDAP • OpenAthensLA (Eduserv) • Shibboleth • Library barcode and PIN from the LMS • EZProxy (OCLC) • WAM Web Access Management (Innovative Interfaces Inc) Provide information about the granularity of authorisation available in your resource discovery system including but not limited to; ability to enable/disable library user groups		
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Term Meaning

A&I Abstracting and Indexing

alert Action directed to a person or a role
API Application Programming Interface

authorised staff someone working for an institution with permission to carry out an action.

BL British Library

BLDSC British Library Document Supply Centre

cancel To end an agreement allowing access to a resource within the constraints set out by the agreement (e.g. notice periods). This often equates to a

CLA Copyright Licencing Agency

courtesy notice A pre-overdue notice to warn users in advance when items are due.

create CRUD delete CRUD

digital asset/item A digital asset is any text or media that is formatted into a binary source and includes the right to use it.

etc Do not use - better to say e.g. or just leave out.

fulfilment apparently, this is the British spelling - but please check again which one is the preferred one...

hold request A request where the item is flagged for a library user without the item being recalled.

ILL inter-library loan

institution one or all of the Consortium member institutions

library user a user of the library service.

library-defined A length of time defined by the library services at an institution.

licence A document that contains all the terms and conditions of use associated with that resource, detailing what can and can't be done, by whom, for how

multi-lingual to be used in public-facing interfaces instead of just bilingual Patron Driven Acquisition of items for the library driven by library user demand.

read CRUD

recall request A request where the item is called back from a library user.

renew To extend an existing agreement, or enter into a new agreement, allowing access to a resource where the existing agreement is expiring.

requester

SAN Secure Area Network

supplier/vendor An enterprise that contributes goods or services in a supply chain

update CRUD

VLE Virtual Learning Environment

Used instead of...

Abstracting and notification Application

British Library British Library

Copyright Licencing pre-overdue notice,

add

fulfillment reservation inter-library loan organisation

user, patron (unless

User Driven

requestor Secure Area supplier, vendor

edit

Virtual Learning