

Appendix 4A					
Metadata Well response form 2. Desired and Explain (D and E) requirements					
Bidders's response to be given in the cells with this colour. See also instructions in Appendix 1 Chapter 4.					
No	Requirement	Max length (pages)	Type (M/D/E)	Complied	Status (if Complied=YES)
5 Requirements to the software solution					
5.1 General/overall requirements					
8	In offered the solution, it SHOULD be possible to constrain the use of certain operations (update, delete) to authorized users.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
9	In the offered solution, it SHOULD be possible to grant/constrain access based on provenance information in the metadata themselves. For example, a user should not be allowed to update data elements for which provenance information declares exclusive rights to others.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
10	In the offered solution, it SHOULD be possible to grant time-constrained access rights for users		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
11	The user interface SHOULD exist in both Norwegian Bokmål and English.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
12	The user interface SHOULD support multilingualism in general.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
13	The user interface SHOULD support all commonly used web-browsers.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
5.2 Interoperability requirements					
16	The API Suite SHOULD have good capacity/performance and be scalable. Please DESCRIBE performance including response time, as well as operational conditions affecting performance.	0.25	E	YES/NO	
17	Please DESCRIBE which standards and protocols are currently supported by the API suite.	0.5	E	YES/NO	
18	The offered solution SHOULD be able to send out event notifications or other forms of messages whenever changes occur in the metadata (e.g. webhooks). Please DESCRIBE the facilities for this, including which events are supported.	0.5	E	YES/NO	
19	The offered solution SHOULD provide an API for reading/retrieving data that is open for all.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
20	The offered solution SHOULD support SRU for search and retrieval.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED

Bidders's response to be given in the cells with this colour. See also instructions in Appendix 1 Chapter 4.					
No	Requirement	Max length (pages)	Type (M/D/E)	Complied	Status (if Complied=YES)
5.3 Data import and export					
23	The offered solution SHOULD be able to deliver data in various ways (in addition to OAI-PMH and SRU), for example as downloadable data sets, as queryable data on a linked data endpoint, etc. Please DESCRIBE how.	0.25	E	YES/NO	
24	The offered solution SHOULD offer good support for conversion between metadata formats, for example between ONIX and RDA/LRM, between RDA/LRM and MARC21, and between BIBFRAME and RDA/LRM. Please DESCRIBE current out-of-the-box conversions, as well as any mechanisms available for defining and maintaining conversions not covered.	1	E	YES/NO	
25	Configurable, advanced matching mechanisms SHOULD be available during import, to prevent entity duplicates and inconcistent metadata in the data store. Please DESCRIBE the facilities for ensuring data consistency during import.	0.5	E	YES/NO	
26	Configurable, advanced merging mechanisms SHOULD be available, to select and execute appropriate import actions when ingesting entity descriptions. Examples of import actions: <i>replace</i> existing description with incoming description, <i>merging</i> an incoming description with an existing one (copying certain data elements from the incoming to the existing description), <i>not import</i> the incoming description. Please DESCRIBE the facilities for ensuring data consistency during import.	0.5	E	YES/NO	
27	The offered solution SHOULD be able to import ONIX records.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
28	The offered solution SHOULD be able to import linked data encoded in BIBFRAME.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
29	The offered solution SHOULD be able to validate incoming metadata descriptions against selected application profiles, and report the result in an understandable way, including any errors and warnings.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
30	The offered solution SHOULD be able to deliver subsets of data corresponding to search result sets in the discovery interface.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
31	It SHOULD be possible to set up scheduled imports from specific sources.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
32	It SHOULD be possible to perform test-imports without affecting the existing data, with a report describing the expected outcome.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
5.4 Metadata management					
35	The offered solution's editing facilities SHOULD have an intuitive interface for creating and updating entities, relations between entities and splitting/merging of entities. Please DESCRIBE the editor's functionality in this regard.	0.5	E	YES/NO	

Bidders's response to be given in the cells with this colour. See also instructions in Appendix 1 Chapter 4.					
No	Requirement	Max length (pages)	Type (M/D/E)	Complied	Status (if Complied=YES)
36	Please DESCRIBE how RDA/LRM and application profiles is supported in the offered solution.	1	E	YES/NO	
37	Please DESCRIBE the level of granularity supported for the provenance information. For example, is it possible to assign provenance to individual information elements, or only to metadata descriptions as a whole?	0.25	E	YES/NO	
38	The offered solution SHOULD support multilingual and multiscript metadata. Please DESCRIBE how.	0.5	E	YES/NO	
39	The offered solution's editing facilities SHOULD have configurable input control, taking the application profiles used into consideration. Please DESCRIBE which mechanisms exist for this.	0.5	E	YES/NO	
40	The offered solution's editing facilities SHOULD support the use of application profiles based on LRM /RDA, to be used as a basis for metadata registration, matching incoming data and producing data exports.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
41	The offered solution SHOULD support application profile management based on RDA/LRM, including creating/copying, editing and storing.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
42	The offered solution SHOULD allow for maintaining provenance data (data about metadata), such as information about ownership and rights to the metadata.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
43	The offered solution SHOULD support provenance data (data about metadata) at single element level. For example, it SHOULD be possible to express that the statement [<The work Made in Norway> <has subject> <Dewey 745.2>] is asserted by <Agent NLN>.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
44	The offered solution SHOULD offer facilities for editing metadata in bulk.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
45	For authorized users, it SHOULD be possible to start editing entities seamlessly and directly from where they appear in a search result display.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
46	The offered solution's editing interface SHOULD be able to display relevant, up to date information about connected external entities, such as names of connected agents in authority files and labels of connected concepts in external vocabularies. The set of information elements to display for each source SHOULD be configurable.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
47	The data model SHOULD be able to accomodate work entities which are not connected to any expressions or manifestations.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED

Bidders's response to be given in the cells with this colour. See also instructions in Appendix 1 Chapter 4.					
No	Requirement	Max length (pages)	Type (M/D/E)	Complied	Status (if Complied=YES)
5.4.1 Metadata management - authority control					
49	The offered solution SHOULD support as authority sources any external vocabularies accessible via a suitable API. Please DESCRIBE any generic mechanism for this.	0.5	E	YES/NO	
50	Metadata originating from linked authority sources (e.g. authority IRI or ID, and/or information elements retrieved from authority sources) SHOULD be updated seamlessly and immediately in the Metadata Well, whenever indicated by updates in the said sources. Please DESCRIBE how this works in the offered solution.	0.5	E	YES/NO	
51	Advanced facilities for authorizing agents towards external sources SHOULD be provided. Such authority linking support could be a lookup/search service integrating information from multiple sources (e.g. Norwegian Authority file, Viaf, ISNI, ORCID,...). Please DESCRIBE the available facilities for this.	0.5	E	YES/NO	
52	The offered solution SHOULD enable users to perform look-ups in - and select entities from external sources (e.g. vocabularies and authority files) directly from the editing interface, thus establishing a live link from the described resource to externally defined entities.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
53	The offered solution SHOULD enable authorized users to perform updates in external sources (e.g. vocabularies and authority files) directly from the editing interface, if suitable APIs are provided by the said external sources.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
5.5 Search and discovery					
54	The offered solution SHOULD provide discovery facilities with rich search functionality, supporting for example: *multiple query expression types: Boolean operators, phrases, truncation indicator *multiple match methods: exact match, partial match (e.g. truncation (left/right), contains word, etc) *Counting metadata elements: search for existence/counts of metadata elements, e.g. find works with more than one creator, with no attached expressions, etc. Please DESCRIBE the offered functionality related to the above points	1	E	YES/NO	
55	It SHOULD be possible to perform searches via the user interface without authentication.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
56	The search result interface SHOULD exploit the structure in the linked metadata and allow easy navigation between linked manifestations, expressions, works and other connected entities.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED

Bidders's response to be given in the cells with this colour. See also instructions in Appendix 1 Chapter 4.					
No	Requirement	Max length (pages)	Type (M/D/E)	Complied	Status (if Complied=YES)
57	The discovery facilities SHOULD provide a single point of entry with a simple search function as default.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
58	The discovery facilities SHOULD provide an Advanced search function, through which multiple information elements ('metadata fields') and entity types are searchable.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
59	The Advanced search function SHOULD allow search in any information element ('metadata field').		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
60	It SHOULD be possible to search in all metadata elements included in the applied entity model.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
61	It SHOULD be possible to save search expressions for repeated/later execution.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
62	The offered solution SHOULD support pattern-based search in the form of regular expressions.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
6 Requirements to implementation and services					
6.1 Implementation					
65	Please DESCRIBE a roadmap for project implementation including development needed to satisfy the requirements.	1	E	YES/NO	
66	The contractor SHOULD take an active role in gathering information and requirements for software development needed for the contractor to deliver the Metadata Well with all its functionality. Please DESCRIBE how the communication with the national library will be handled during implementation.	1	E	YES/NO	
67	The contractor SHOULD provide its own project manager for organizing and managing the software development needed to deliver the Metadata Well		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
68	A fully functional test environment for the Metadata Well SHOULD be available both during implementation and after Go Live		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
6.2 Maintenance and data management					
73	Please DESCRIBE the procedure for testing and deploying upgrades to the offered solution, including the role of any subcontractors.	0.5	E	YES/NO	
74	The contractor SHOULD implement proactive routines for discovering and solving critical issues with functionality or data. Please DESCRIBE which mechanisms are in place to ensure that critical issues are discovered and solved swiftly.	0.5	E	YES/NO	

Bidders's response to be given in the cells with this colour. See also instructions in Appendix 1 Chapter 4.					
No	Requirement	Max length (pages)	Type (M/D/E)	Complied	Status (if Complied=YES)
75	The contractor SHOULD be able to perform one-time jobs on demand, like retrospective ingest of large data sets (e.g. library catalogues) into the Metadata Well. Please DESCRIBE your availability for this, including notification deadline.	0.25	E	YES/NO	
76	The offered solution SHOULD provide simple workflow support, such as task allocation and follow-up. Please DESCRIBE any facilities for this.	0.5	E	YES/NO	
77	The contractor SHOULD provide technical data management services, including setting up regular data ingest and exports and defining data conversion schemes.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
78	The contractor SHOULD keep the Metadata Well continuously compliant with up-to-date security standards and functioning with internet browser standards.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
6.3 Supporting users					
80	The contractor SHOULD provide training materials and user guidance both for direct use via GUI as well as M2M integrations, for example guided tours, FAQ, video or text tutorials, other self-paced learning resources, guidance in the user interface (e.g. tooltips). Please DESCRIBE which guidance is provided.	0.5	E	YES/NO	
81	Contractor SHOULD provide detailed, up to date documentation about all user functionality, including precise explanation of the search functionality.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED
82	Contractor SHOULD provide detailed, up-to-date documentation on the API Suite.		D	YES/NO	IMPLEMENTED / IN DEVELOPMENT / PLANNED