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JUDAICA Europeana

Report on the metadata entry systems of the Partners and the procedures for adapting Judaica metadata to Europeana requirements

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eContentplus

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¹ OJ L 79, 24.3.2005, p. 1.

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1. Introduction

1.1 The Purpose of Work Package 3

JUDAICA Europeana will document the Jewish contribution to the European urban development by identifying content related to the Jewish presence and heritage in the cities of Europe. It will work together with European cultural institutions and provide access to a large quantity of European Jewish cultural heritage at the level of the cultural object.

In this context, Work Package 3 of the JUDAICA Europeana project (WP3) is tasked with supporting:

1. Digitization process and issues concerning hardware, software, file formats, design and presentation, storage.
2. Content enrichment facilities through a metadata entry system.
3. Advanced web management facilities based open source CMS and associated DBMS supporting mash-up from the EUROPEANA open API
4. Semantic interoperability including the representation of controlled vocabularies in RDF/SKOS
5. Selection, installation and support for the use of an open source knowledge management package.

WP3 is in constant cooperation with other work packages in the project, and in particular with WP2, of which the Partners' content and metadata survey is essential. It is closely supported with technical capabilities provided by MiBAC and its partners in the ATHENA project.

1.2 Overview of the deliverable

This deliverable addresses task 2 of WP3 – Metadata, object surrogate, harvesting and search support, consisting of:

1. Adapting the metadata entry systems of partners for the requirements of EUROPEANA (content enrichment) and, if required by Partners, providing and installing such system from scratch.
2. Ensuring that the digital object surrogates and the metadata are compliant with the technical requirements guidelines of EUROPEANA: preparation of thumbnails; the provision of identifiers; the access to the digital objects; the character sets used for the contents of the digital objects; data transfer based on XML structured files; enabling the harvesting of the metadata records via OAI-PMH; supporting the integration of available protocols for search of the collections to those supported by EUROPEANA.

This deliverable is based on information collected in the course of the preparation of Deliverables 2.2 and 3.1, and concentrates on the current level of compliance with EUROPEANA's guidelines among Judaica Partners, notably as to what should be uploaded and how it should be done.

It then describes the efforts made by Judaica Europeana during the past year to harmonize its widely diverse Partners' content into a uniformly satisfying ESE output.

Special attention is given to the mapping conventions Judaica Europeana has established.

2. Compliance with the technical requirements guidelines of EUROPEANA

The following table is a fusion of results from Deliverables 2.2 and 3.1.

What is of main interest to us here are the last four columns:

Partner	Collection	Quantity in pages	Format	Metadata	Export to XML	Thumbnail	Type of upload
Alliance Israelite Universelle	AIU Bulletins	300.000	TEXT	MARC21	X	X	OAI
	Archival Material	1.000.000		EAD/EAC			
	Books	30.000		MARC21			
	Books and Pamphlets	16.000	VIDEO	In house			
	Film Collection	8					
	Jewish Journals, 20th century	200.000	TEXT	MARC21			
	Jewish Periodicals, 19 th -20 th cent.	1.000.000	IMAGE	In house			
Photo Collection	6.200						
Bibliotheca Palatina di Parma	16th Century Books	48.000	TEXT	DC, MAG	X		
	Incunabula						
Frankfurt University Library/Judaica	Compact Memory	700.000	TEXT	DC	X	-	OAI
	Frankfurteriana	200.000		MAB 2		X	
	Freimann-Collection	1.250.000					
	Yiddish prints	200.000					
Hungarian Jewish Archives	Dohany Street Synagogue-Pews	2.900	TEXT	In house	X	X	
	Jews of Pest - Conscription	1.761					
	Postcard	1.766	IMAGE				
Jewish Historical Institute, Warsaw	Administration 1791-1938	12.840	TEXT	In house	X	X	http ftp
	Antisemitic incidents 1879-1895	526					
	Assoc. Of German Jews	2.027					
	Breslau - Rabbinate	2.432					
	Breslau, Electors registers	8.238					
	Breslau-Representatives	1.307					
	Bulletin, correspondence 1924-1937	2.812					
	Burial Society	41.912					
	Christian Names 1836/37	24					
	Communal organization	2.260					
	Community members	6.565					
	Correspondence	381					
	Emigration	1.600					
	Jewish cemeteries	11.614					
	Jewish Charity	42.070					
	Jewish Communal Life	6.022					
	Jewish families	1.021					
	Jewish oath 1829-1869	268					
	Jewish Society of Friends	179					
	Jewish Telegraphic Agency 1925	726					
	Jewish Theological Library	8.640					
	Photo Collection	90	IMAGE				
	Properties and buildings 1919-1937	973	TEXT				
Registers of death	1.863						
Schools	4.000						
Statutes	1.428						
Synagogues- documents	6.123						

Jewish Museum London	Album-pages	203	TEXT	In house	X	X	http
	Annual reports	33					
	Art	30	IMAGE				
	Audio Recordings	150	SOUND				
	Booklets	3.200					
	Books	7.500	TEXT				
	Business cards	21	IMAGE				
	Certificates	92					
	Haggadah	300					
	Jewish Marriage Contracts	28	TEXT				
	Leaflets	41					
	Letters	130					
	Membership documents	200					
	Paintings	100					
	Passports	19					
	Photo-collection	900	IMAGE				
	Photos	300					
	Postcards	34					
	Posters	20					
Theatre Programmes	53	TEXT					
Tickets	16	IMAGE					
Jewish Museum of Greece	Architectural Elements	24	IMAGE	ESE.	X	X	http
	Architectural Elements	27					
	Archival material -Documents	1.150		In house			
	Arditis Archives	230	TEXT				
	Books -Title pages	648					
	Books, complete	2.300					
	Coins	125		ESE			
	Coins	125		In house			
	Contemporary Artworks	47	IMAGE				
	Contemporary Artworks -Paintings	47		ESE			
	Costumes	12		In house			
	Costumes	478					
	Documents	1.000	TEXT	ESE			
	Domestic Artifacts	477		In house			
	Ephemera	80		ESE			
	Ephemera	99	IMAGE	In house			
	Etchings	90		ESE			
	Etchings	94					
	Florentin Archives	60	TEXT				
	Hidden Children - Photos	340		In house			
	Holocaust Survivors	55	IMAGE				
	Ioannina -Collection	270					
	Jewish Neighbourhoods-Photo	150					
	Manuscripts	90		ESE			
	Manuscripts	107	TEXT	In house			
	Molho Archives	110					
	Patras Archives	2.740					
	Personal Objects	30		ESE			
	Personal Objects	400					
	Photo-Collection	873	IMAGE	In house			
	Photo-Collection -Archive	2.673					
	Photos	873		ESE			
	Postcards	25	TEXT	In house			
	Religious Artifacts	54		ESE			
	Religious Artifacts	596		In house			
	Textiles	6	IMAGE	ESE			
	Textiles	403					
	WWII and Holocaust-Photo	376					
	Yoel Archives - Documents	270	TEXT	In house			
	Yoel Archives - Photos	45	IMAGE				
Young People	420						

Medem Library	Photo-Collection	1.200	IMAGE	MARC21	X	X	OAI
	Records of Jewish songs	10.876	SOUND				
	Yiddish Books	98.500	TEXT				
State Archive Venice	Documents on Jews 1705-1795	26 files=1+55 registers	TEXT	EAD	X		
	Ghetto 1587-1647	1 register+1 file					
	Ghetto 1661-1740	4 registers					
	Jewish Necrology	3 registers					
	Jewish Welfare - Registers 1581-1799	9 registers					
	Jews- 1750-1796	20 files+1 register					
	Politics towards Jews	13 registers					
Regulations for Jews 1516-1799	3 files						

It is clear that, as of December 2010, all Partners are able to export their metadata in XML compliant form, and that the vast majority have already projected thumbnails for EUROPEANA to cache.

Equally obvious is the vast diversity of collections, the multitude of metadata standards and the relative lack of OAI platforms, all of which are at the center of the metadata mapping and aggregating problems that we have been working on.

3. Metadata mapping and aggregating

3.1 Testing the ATHENA Ingesting Tool

A Judaica team has participated in the ATHENA Training Workshop in Rome, January 18-19, 2010 where we have been introduced for the first time to both LIDO and the ATHENA Ingestion Tool. Extensive testing of the Tool in the following weeks has brought to light major conversion problems, notably concerning MARC21 metadata, widely in use within the library-oriented partners.

While a complete MARC21 to LIDO mapping has been established on paper, the ATHENA Tool in its early version did not seem to provide sufficient means to bring it to completion.

The ATHENA Tool has been originally conceived for the Museum community and is, by all accounts, doing a stellar job in aggregating and transforming metadata from a large number of museums. In that respect, the use of LIDO allows for a rather simple mapping as it is close in both content and structure to existing museum standards widely in circulation.

However, the structure of MARC XML records (as well as MAB, for that matter) differs considerably from that of LIDO, thus resulting in the handling of more levels and more conditional functions than the ATHENA team had accounted for.

3.2 Guiding JUDAICA Partners in the use of the ATHENA Tool

While waiting for the ATHENA technical team to address these early issues, Partners were asked to send a sample file of their metadata, which would later be used both to test ATHENA's handling of various in-house metadata sets as well as to demonstrate and explain the use of the Tool to all Judaica partners on the occasion of the 2nd Partners' meeting in London on May 10.

By the time of the 3rd meeting in Ravenna on July 27, Partners had experimented with their own metadata uploading and mapping with various degrees of success, and brought the results with them to be reviewed together, step by step, drawing conclusions of what needed to be changed in the mapping, and what needed to be adapted locally in the original context of the metadata.

3.3 Considering alternatives

Due to doubts concerning both the compatibility of the Tool with the MARC21 section of the metadata (representing some 1.700.000 pages), as well as administrative issues as to the ATHENA aggregator Tool actually being used by the Judaica aggregator, other solutions have been explored in the period around the Amsterdam EUROPEANA conference, October 14-15.

The EUROPEANA team has suggested the use of EUROPEANA's own tool, but only later in the year 2011, after the testing of the tool is completed.

In-house aggregating by one of the JUDAICA partners, probably the Alliance Israélite Universelle (AIU), is also an option, though this would entail the purchasing of a special license from the AIU's OAI-PMH provider to serve as a harvester rather than just a repository.

On the technical front, a solution has been found to export the AIU's and Medem's MARC21 records in a format close to ESE. A default in the conception of the OAI publishing platform used by both libraries through their ILS (ALEPH) had excluded the use of any metadataPrefix other than dc or dcterms. This is still the case, a solution is awaited from the ALEPH technical support team, but in the meantime ESE elements have been added as custom dc elements that should be easily transformed subsequently until a permanent solution is reached.

3.4 Preparing for all contingencies

With the question of the actual aggregating tool suspended, our efforts during the 4th Partners' meeting in Jerusalem on November 15, have centered on the integrity of the metadata to be uploaded, whether the target be ESE or LIDO.

Clear instructions have been set as to what information Judaica considers relevant, what its place is in an ESE environment as well as that of LIDO, how it should be presented according to EUROPEANA and ATHENA guidelines and how to distribute it in a way that would optimize search results once on the EUROPEANA site.

MARC21 metadata has been mapped into (pseudo) ESE, should the ingestion be done directly, and an ESE to LIDO mapping has been put at the disposal of all Judaica Partners on the ATHENA Tool in order to allow for that ESE MARC conversion, as well as any other Partner's ESE batch, to be uploaded on the spot should the ATHENA option prove to be viable.

The following guidelines for mapping to both ESE and LIDO have been established and distributed in order for our first batch of some 800.000 records from Frankfurt and Paris – TEXT and SOUND – to be ready for ingestion as soon as the decision of aggregator is taken, thus covering all fronts.

4. JUDAICA Europeana Guidelines for Metadata Mapping

Data should be sent to EUROPEANA in the following order.

Mandatory elements are in red.

Information generated automatically by EUROPEANA is in grey:



Original metadata	EUROPEANA element	Guidelines	Athena/LIDO element	Athena/LIDO attributes	Guidelines
4.1 Strongly recommended elements					
Main title	dc:title	Limit to 1 per language. Place all other title variants in dcterms:alternative	[Descriptive Metadata] /objectIdentificationWrap /titleWrap /titleSet /appellationValue	@pref="preferred"	
All other variants of the title, abbreviations, translations etc.	dcterms:alternative		[Descriptive Metadata] /objectIdentificationWrap /titleWrap /titleSet /appellationValue	@pref="alternate"	
Creator(s) of the described object	dc:creator		[Descriptive Metadata] /eventWrap /eventSet /event /eventActor /actorInRole /actor /nameActorSet /appellationValue	[Descriptive Metadata] /eventWrap /eventSet /event /eventType /term "Create" & [Descriptive Metadata] /eventWrap /eventSet /event /eventActor /actorInRole/ /actor @actorType="person" or "corporation" or "group" & [Descriptive Metadata] /eventWrap /eventSet /event /eventActor /actorInRole /roleActor /term "[specific role (composer, painter, author, photographer...)]"	

Original metadata	EUROPEANA element	Guidelines	Athena/LIDO element	Athena/LIDO attributes	Guidelines
Other contributors to the described object	dc:contributor		[Descriptive Metadata] /eventWrap /eventSet /event /eventActor /actorInRole /actor /nameActorSet /appellationValue	[Descriptive Metadata] /eventWrap /eventSet /event /eventType /term "[LIDO term list]" & [Descriptive Metadata] /eventWrap /eventSet /event /eventActor /actorInRole/ /actor @actorType="person" or "corporation" or "group" & [Descriptive Metadata] /eventWrap /eventSet /event /eventActor /actorInRole /roleActor /term "[specific role (singer, actor, author of introduction...)]"	
Creation date	dcterms:created	Ideally should contain somewhere in the field (so not necessarily exclusively) a four digit year in order to appear in the EUROPEANA Timeline. Other values will be displayed in the result list only	[Descriptive Metadata] /eventWrap /eventSet /event /eventDate /date /earliestDate & [Descriptive Metadata] /eventWrap /eventSet /event /eventDate /date /latestDate	[Descriptive Metadata] /eventWrap /eventSet /event /eventType /term "Create"	Format: YYYY[-MM[-DD]] for single dates, repeat value in both earliestDate and latestDate

Original metadata	EUROPEANA element	Guidelines	Athena/LIDO element	Athena/LIDO attributes	Guidelines
Publication date	dcterms:issued	Ideally should contain somewhere in the field (so not necessarily exclusively) a four digit year in order to appear in the EUROPEANA Timeline. Other values will be displayed in the result list only	[Descriptive Metadata] /eventWrap /eventSet /event /eventDate /date /earliestDate & [Descriptive Metadata] /eventWrap /eventSet /event /eventDate /date /latestDate	[Descriptive Metadata] /eventWrap /eventSet /event /eventDate /eventType /term "Publication"	Format: YYYY[-MM[-DD]] for single dates, repeat value in both earliestDate and latestDate
The most significant date in the life of the object. Use only when more precise relations (creation, publication) cannot be established	dc:date	Prefer dcterms:created and dcterms:issued. If the date is the TOPIC of the object, use dcterms:temporal. Ideally should contain somewhere in the field (so not necessarily exclusively) a four digit year in order to appear in the EUROPEANA Timeline. Other values will be displayed in the result list only	[Descriptive Metadata] /eventWrap /eventSet /event /eventDate /date /earliestDate & [Descriptive Metadata] /eventWrap /eventSet /event /eventDate /date /latestDate	[Descriptive Metadata] /eventWrap /eventSet /event /eventDate /term "[LIDO term list]"	

Original metadata	EUROPEANA element	Guidelines	Athena/LIDO element	Athena/LIDO attributes	Guidelines
4.2 Recommended elements					
Subject in terms of space: place, location, coordinate or administrative entity	dc:spatial		[Descriptive Metadata] /objectRelationWrap /subjectWrap /subjectSet /subject /subjectPlace /place /namePlaceSet /appellationValue		
Subject in terms of time	dcterms:temporal	Ideally should contain somewhere in the field (so not necessarily exclusively) a four digit year in order to appear in the EUROPEANA Timeline. Other values will be displayed in the result list only	[Descriptive Metadata] /objectRelationWrap /subjectWrap /subjectSet /subject /subjectDate /date /earliestDate & [Descriptive Metadata] /objectRelationWrap /subjectWrap /subjectSet /subject /subjectDate /date /latestDate		Format: YYYY[-MM[-DD]] for single dates, repeat value in both earliestDate and latestDate
Mixed spatial and temporal topic with no distinction between the two	dc:coverage	Prefer dcterms:spatial and dcterms:temporal where possible	[Descriptive Metadata] /objectRelationWrap /subjectWrap /subjectSet /subject /subjectConcept /term		
Object description in prose	dc:description		[Descriptive Metadata] /objectIdentificationWrap /objectDescriptionWrap /objectDescriptionSet /descriptiveNoteValue		

Original metadata	EUROPEANA element	Guidelines	Athena/LIDO element	Athena/LIDO attributes	Guidelines
Repository name	dc:description		[Descriptive Metadata] /objectIdentificationWrap /repositoryWrap /repositorySet /repositoryName /legalBodyName /appellationValue		
Repository location	dc:description		[Descriptive Metadata] /objectIdentificationWrap /repositoryWrap /repositorySet /repositoryLocation /namePlaceSet /appellationValue		
Collection or resource of which the described object is a constituent unit	dcterms:isPartOf		[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWork /object /objectNote	[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWorkRelType /term "isPartOf"	
Language of the object (including text within images)	dcterms:language	ISO 639-1 two letter code when available. Otherwise, ISO 639-2 three letter code. Both to be found at http://www.loc.gov/standards/iso639-2/php/code_list.php *** Note the difference: dcterms:language = the language of the described object europeana:language = the language of the provider (Judaica) @xml:lang = the language of the metadata ***			
Publisher of the described object	dc:publisher		[Descriptive Metadata] /eventWrap /eventSet /event /eventActor /actorInRole /actor /nameActorSet /appellationValue	[Descriptive Metadata] /eventWrap /eventSet /event /eventType /term "Publication"	

Original metadata	EUROPEANA element	Guidelines	Athena/LIDO element	Athena/LIDO attributes	Guidelines
Related resource from which the described resource is derived in whole or in part	dc:source		[Administrative Metadata] /recordWrap /recordSource /legalBodyName /appellationValue		
Subject (topics)	dc:subject	Prefer dcterms:spatial for places. Prefer dcterms:temporal for subject in terms of time.	[Descriptive Metadata] /objectRelationWrap /subjectWrap /subjectSet /subject /subjectConcept /term		
Subject (people, corporations, groups)	dc:subject		[Descriptive Metadata] /objectRelationWrap /subjectWrap /subjectSet /subject /subjectActor /actor /nameActorSet /apellationValue	[Descriptive Metadata] /objectRelationWrap /subjectWrap /subjectSet /subject /subjectActor /actor @actorType="person" or "corporation" or "group"	
Nature or genre of the described object	dc:type	Controlled vocabulary, for instance DC Type vocabulary (example: photograph, painting, sculpture...) *** Note the difference between dc:type and the stricter, four-option-only europeana:type ***	[Descriptive Metadata] /objectClassificationWrap /objectWorkTypeWrap /objectWorkType /term		
4.3 Additional elements					
Dimensions, size or duration	dcterms:extent		[Descriptive Metadata] /objectIdentificationWrap /objectMeasurementsWrap /objectMeasurementsSet /displayObjectMeasurements		

Original metadata	EUROPEANA element	Guidelines	Athena/LIDO element	Athena/LIDO attributes	Guidelines
Material or physical carrier of the described object (paper, wood, metal...)	dcterms:medium		[Descriptive Metadata] /eventWrap /eventSet /event /eventMaterialsTech /materialsTech /termMaterialsTech /term	[Descriptive Metadata] /eventWrap /eventSet /event /eventType /term "Create"	
Format when extent and medium cannot be distinguished. Also, file format.	dc:format	Prefer dcterms:extent and dcterms:medium where possible. For digital objects use MIME Types			
Local identifier	dc:identifier		[Administrative Metadata] /recordWrap /recordID	@source="[your catalog]" @type="local"	
Intellectual property rights holder	dc:rights		[Administrative Metadata] /rightsWorkWrap /rightsWorkSet /rightsHolder /legalBodyName /appellationValue		
Ownership, custody and changes made by custodians	dcterms:provenance		[Descriptive Metadata] /eventWrap /eventSet /event /eventActor /actorInRole /actor /nameActorSet /appellationValue	[Descriptive Metadata] /eventWrap /eventSet /event /eventType /term "Provenance" & [Descriptive Metadata] /eventWrap /eventSet /event /eventActor /actorInRole/ /actor @actorType="person" or "corporation" or "group"	

Original metadata	EUROPEANA element	Guidelines	Athena/LIDO element	Athena/LIDO attributes	Guidelines
Standard useful for the use of the digital object	dcterms:conformsTo		[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWork /object /objectNote	[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWorkRelType /term "conformsTo"	
Other, later object, identical in substance but differing in format	dcterms:hasFormat		[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWork /object /objectNote	[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWorkRelType /term "hasFormat"	
Other object, identical in substance but differing in format, when it is not clear which preceded the other	dcterms:isFormatOf		[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWork /object /objectNote	[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWorkRelType /term "isFormatOf"	
Related resource that is a version, edition or adaptation of the described object, implying changes in content rather than just a different format	dcterms:hasVersion		[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWork /object /objectNote	[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWorkRelType /term "hasVersion"	
Related resource of which the described object is a version, edition or adaptation, implying changes in content rather than just a different format	dcterms:isVersionOf		[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWork /object /objectNote	[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWorkRelType /term "isVersionOf"	
Related resource that is included either physically or logically in the described object	dcterms:hasPart		[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWork /object /objectNote	[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWorkRelType /term "hasPart"	

Original metadata	EUROPEANA element	Guidelines	Athena/LIDO element	Athena/LIDO attributes	Guidelines
Related resource that references, cites, or otherwise points to the described object	dcterms:isReferencedBy		[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWork /object /objectNote	[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWorkRelType /term "isReferencedBy"	
Related resource that is referenced, cited, or otherwise pointed to by the described object	dcterms:references		[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWork /object /objectNote	[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWorkRelType /term "references"	
Related resource that supplants, displaces, or supersedes the described object	dcterms:isReplacedBy		[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWork /object /objectNote	[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWorkRelType /term "isReplacedBy"	
Related resource that is supplanted, displaced, or superseded by the described object	dcterms:replaces		[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWork /object /objectNote	[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWorkRelType /term "replaces"	
Related resource that requires the described object to support its function, delivery or coherence	dcterms:isRequiredBy		[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWork /object /objectNote	[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWorkRelType /term "isRequiredBy"	
Related resource that is required by the described object to support its function, delivery or coherence	dcterms:requires		[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWork /object /objectNote	[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWorkRelType /term "requires"	



Original metadata	EUROPEANA element	Guidelines	Athena/LIDO element	Athena/LIDO attributes	Guidelines
Any other related resources	dc:relation		[Descriptive Metadata] /objectRelationWrap /relatedWorksWrap /relatedWorksSet /relatedWork /object /objectNote		
Table of contents, list of sub-units of the described object	dcterms:tableOfContents		[Descriptive Metadata] /objectIdentificationWrap /objectDescriptionWrap /objectDescriptionSet /descriptiveNoteValue		

4.4 Additional mandatory ATHENA/LIDO elements

Principal object description language			[Template] /descriptiveMetadata /@lang		ISO 639-1 two letter code when available. Otherwise, ISO 639-2 three letter code. Both to be found at: http://www.loc.gov/standards/iso639-2/php/code_list.php For fully multi-lingual resources, repeat this element once for each language represented. If only a few data fields (e.g. title) are provided in more than one language, the respective text elements may be repeated specifying the lang attribute on the text level.
---------------------------------------	--	--	-------------------------------------------------------------------	--	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



Original metadata	EUROPEANA element	Guidelines	Athena/LIDO element	Athena/LIDO attributes	Guidelines
Principal administrative data language			[Template] /administrativeMetadata /@lang		ISO 639-1 two letter code when available. Otherwise, ISO 639-2 three letter code. Both to be found at: http://www.loc.gov/standards/iso639-2/php/code_list.php For fully multi-lingual resources, repeat this element once for each language represented. If only a few data fields (e.g. creditline) are provided in more than one language, the respective text elements may be repeated specifying the lang attribute on the text level.
LIDO record identification			[Template] /lidoRecID	@source="[your catalog]" @type="local"	contributor identifier + local system number
LIDO record type			[Administrative Metadata] /recordWrap /recordType		Term establishing whether the record represents an individual item or a collection, series, or group of works. use one of the following: "item", "collection", "series", "group", "volume", "fonds"

Original metadata	EUROPEANA element	Guidelines	Athena/LIDO element	Athena/LIDO attributes	Guidelines
4.5 EUROPEANA elements					
All that doesn't fit elsewhere	europaena:unstored	This information will not be displayed but will be indexed for searching			
URL of thumbnail or actual resource to generate thumbnail	europaena:object	<p>Thumbnails should be 200 pixels in width, unless the resulting height is less than 110 pixels, in which case the image should be as wide as needed to reach the height of 110 pixels.</p> <p>In the absence of any thumbnail, EUROPEANA may create one based on your digital object link provided that it points to the image itself (NOT an image embedded in an HTML page), or to a PDF (in which case bear in mind, while creating your PDF, that it is the first page of the file which will be invariably used for the thumbnail)</p>	<p>[Administrative Metadata] /resourceWrap /resourceSet (thumb) /linkResource</p>	@type="image_thumb"	If none, repeat the complete resource URL
Aggregator	europaena:provider	"Judaica"			
Category for display in EUROPEANA	europaena:type	"TEXT", "IMAGE", "SOUND" or "VIDEO"	<p>[Descriptive Metadata] /objectClassificationWrap /classificationWrap /classification /term</p>	<p>[Descriptive Metadata] /objectClassificationWrap /classificationWrap /classification @type="europaena:type"</p>	

Original metadata	EUROPEANA element	Guidelines	Athena/LIDO element	Athena/LIDO attributes	Guidelines
Rights status of the digital object described in the metadata	europæana:rights	<p>One, and ONLY one, of the following URLs:</p> <p>http://creativecommons.org/publicdomain/mark/1.0/ (Public Domain Mark)</p> <p>http://creativecommons.org/publicdomain/zero/1.0/ (Creative Commons - Zero (CC0) (universal)</p> <p>http://creativecommons.org/licenses/by/3.0/ (Creative Commons - Attribution (BY) (v3.0 Unported)</p> <p>http://creativecommons.org/licenses/by-sa/3.0/nl/ (Creative Commons - Attribution, Share Alike (BY-SA) (v3.0 Netherlands)</p> <p>http://creativecommons.org/licenses/by-nc/3.0/de/ (Creative Commons - Attribution, Non-commercial (BY-NC) (v2.5 Germany)</p> <p>http://creativecommons.org/licenses/by-nc-sa/2.0/fr/ (Creative Commons - Attribution, Non-commercial, Share Alike (BY-NC-SA) (v2.0 France)</p> <p>http://creativecommons.org/licenses/by-nd/2.0/es/ (Creative Commons - Attribution, No derivatives (BY-ND) (v2.0 in Spain)</p> <p>http://creativecommons.org/licenses/by-nc-nd/1.0/fi/ (Creative Commons - Attribution, Non-commercial, No derivatives (BY-NC-ND) CC BY-NC-ND (v1.0 in Finland)</p> <p>http://www.europeana.eu/rights/rr-f/ (Rights Reserved - Free Access)</p> <p>http://www.europeana.eu/rights/rr-p/ (Rights Reserved - Paid Access)</p> <p>http://www.europeana.eu/rights/rr-r/ (Rights Reserved - Restricted Access)</p> <p>http://www.europeana.eu/rights/unknown/ (Unknown)</p> <p>*** Note that the "unknown" status will exclude items from display ***</p>	<p>[Administrative Metadata] /resourceWrap /resourceSet (master) /rightsResource /rightsType</p>	<p>@type="image_master"</p>	

Report on the metadata entry systems of the Partners and the procedures for adapting JUDAICA metadata to EUROPEANA requirements



Original metadata	EUROPEANA element	Guidelines	Athena/LIDO element	Athena/LIDO attributes	Guidelines
Judaica partner name	europaana:dataProvider	Ordinary text string for now, in one or several languages. An identifier will be supplied later on by EUROPEANA. Judaica itself will be mentioned under europaana:provider	[Administrative Metadata] /recordWrap /recordSource /legalBodyName /appellationValue		
Link to the digital object on the partner's site	europaana:isShownBy		[Administrative Metadata] /resourceWrap /resourceSet (master) /linkResource	@type="image_master"	
Link to the metadata description on the partner's site	europaana:isShownAt		[Administrative Metadata] /recordWrap /recordInfoSet /recordInfoLink	@formatResource="html"	
Country of the Provider	europaana:country	"Europe" Generated automatically by EUROPEANA			
Does a thumbnail exist or not?	europaana:hasObject	Generated automatically by EUROPEANA			
Official language of the country in which the provider is located	europaana:language	Generated automatically by EUROPEANA			
EUROPEANA system number	europaana:uri	Generated automatically by EUROPEANA. Based on the source system number, discarding of all subsequent reiterations			
	europaana:userTag	Created by users			
Year for Timeline	europaana:year	Derived automatically from dc:date, dcterms:created, dcterms:issued and dcterms:temporal *** Note that objects with no europaana:year will not be represented in the Timeline ***			

5. Conclusion

Judaica Europeana had to face many challenges due to the diversity of the partners' collections (Museums, Archives, Libraries) and of the metadata descriptions (MARC21, EAD/EAC, DC, MAB2, MAG, ESE). A close cooperation between WP2 and WP3 allowed for a precise description of the situation, through a common survey. This gave both Work Packages all the information needed.

A very considerable investment of time and effort by the Judaica, Europeana, and Athena technical teams, allowed us to investigate and address the main issue: the fact that the Athena ingestion tool, based on LIDO, which is designed for museums, presented some difficulties for libraries and archives. The following alternative solutions have been considered:

1. Ingestion in Athena,
2. Ingestion in Europeana,
3. Ingestion with a new tool created by a partner (AIU?), and development of an OAI harvesting platform,.

At the time of writing this report, the choice of a common target in ESE is on its way and our partner MiBAC is assuming the responsibility for ingesting and uploading the metadata using the Athena ingestion tool.

Another point that should be underlined is that during the first year of the project, WP3 made it possible for partners to train and learn the difficult operations of mapping formats and ingesting data into Europeana through Athena. The role of David Klein, WP3 technician, has been essential in advising, training, and encouraging the partners, giving them step-by-step support and necessary confidence.

In conclusion, it should be noted that Judaica is ready to ingest and upload approx. 850 000 documents to Europeana, which is much more than the target of 100 000 initially considered. This will be carried out at the end of December 2010 or in early January 2011.