UW-Madison Digital Library Data Dictionary: Electronic Facsimiles

Last Updated: 2006-02-17Editor: Peter C. Gorman

• Version:5.0

Previous Versions: v.4.0

• Current Version: http://uwdcc.library.wisc.edu/resources/efacs/EFacsDataDictionary.shtml

• Related Documents:

o Entity Relationship Diagram for Electronic Facsimile Collections

o Use of electronic facsimile data elements in TEI markup

This document does not specify text structures, record syntax, or display labels. Rather, it defines the core data elements in terms of their internal encoding, semantics, appropriate use, and relationship to other metadata schemes. Crosswalk entries (particularly those for Dublin Core and MARC) are necessarily imprecise, as this document was created for the purpose of mapping relational database fields to TEI SGML structures. They may serve, however, to give readers with a background in those metadata schemes some points of comparison in interpreting the semantics of these data elements. Methods for embedding these data elements in specific applications or transfer formats may be specified in other documents.

Jump to: Contributors | Key to heading abbreviations

Objects defined for this application:

Collection

Attributes of the collection as a whole.

Subcollection

An arbitrary grouping of elements in a Collection.

Aggregate

A logical level of organization higher than that of the individual *Issue*. For most serials, this will be a volume. For (single-volume) monographs, this will usually not exist.

Issue

Basic unit of distribution. For monographs and some serials this may correspond to a volume.

Item

Only unit of organization recognized within an Issue. Normally corresponds to chapters, articles, etc.

Page

A single page.

Standard-Number

Standard identifier according to some published scheme.

Object: Collection

Attributes of the collection as a whole.

	Data El	ement		Req	/Rep		Cross	walk	Community
Name	Definition	Format	Example	Req	Rep	DC	MARC	TEI	Comments
Collection-ID	unique within	Text string: characters valid within SGML ID value	JCE	X	_	DC.Identifier	024	<pre><seriesstmt> <idno type="LocalID"> Component of <publicationstmt> <idno type="LocalID"> Component of attributes id (<tei.2>, <div1>, <figure>), target (<ptr>), and entity (<figure>), and of</figure></ptr></figure></div1></tei.2></idno></publicationstmt></idno></seriesstmt></pre>	May be URN Namespace Specific String.
Collection-Title	Title for the Collection	Text string	The Journal of Chemical Education: electronic facsimile			DC.Title	245 440 a	<pre>entity names. <seriesstmt> <title type="Collection"></pre></td><td>This is the title to be used in field 245 of the catalog record for the collection.</td></tr><tr><td>Collection-
Title-NFC</td><td>Number of
non-filing
characters at
start of
Collection-
Title</td><td>Positive integer</td><td>4</td><td>Χ<u>†</u></td><td></td><td></td><td></td><td></td><td>In database implementations, this value may be prepended to Collection-Title, delimited by the pipe character ().</td></tr><tr><td>Collection-
Availability</td><td>Information about copyright, access rights, etc.</td><td>Text string</td><td>Copyright © 2000 Board of Regents of the University of</td><td></td><td></td><td>DC.Rights</td><td>540</td><td><availability></td><td>Standard copyright language should be used when available.</td></tr></tbody></table></title></seriesstmt></pre>	

Wisconsin			
System			

Object: Subcollection

An arbitrary grouping of elements in a Collection.

	Data El	lement		Req	/Rep		Cross	walk	Comments
Name	Definition	Format	Example	Req	Rep	DC	MARC	TEI	Comments
Collection-ID	Unique identifier for Collection	Text string: characters valid within SGML ID value	JCE	X					Foreign key from Collection
Subcoll-ID	1	Text string: characters valid within SGML ID value		X		DC.Identifier		Component of attribute id (<seriesstmt><title on"="" subcollecti="" type="Subcollection>)</td><td></td></tr><tr><td>Subcoll-Title</td><td>Title for the Subcollection</td><td>Text string</td><td></td><td>X</td><td></td><td></td><td></td><td><pre><seriesStmt> <title type="></pre></td><td></td></tr><tr><td>Subcoll-Title-
NFC</td><td>Number of
non-filing
characters at
start of
Subcoll-Title</td><td>Positive integer</td><td>4</td><td>X<u>†</u></td><td></td><td></td><td></td><td></td><td>In database implementations, this value may be prepended to Subcoll-Title, delimited by the pipe character ().</td></tr></tbody></table></title></seriesstmt>	

Object: Aggregate

A logical level of organization higher than that of the individual *Issue*. For most serials, this will be a volume. For (single-volume) monographs, this will usually not exist.

	Data E	lement		Req	eq/Rep Crosswalk				Comments
Name	Definition	Format	Example	Req	Rep	DC	MARC	TEI	Comments
Collection-ID	Unique	Text string:	JCE	X					Foreign key from Collection
	identifier for	characters valid							

	Collection	within SGML ID value			Π				
Aggregate-Sequence-No	Sequencer for Aggregate; unique within scope of Collection identified by Collection-ID.	digits, zero-	0014	X					May be created during processing. This should start with 0001 for the first Aggregate in the Collection, and continue in unbroken sequence through the last. If Aggregates are added or removed, the sequence must be recalculated. This number has no relationship to any number printed on the source volume. Used to sort files for indexing; not used in TEI data.
Aggregate-ID	Identifier for Aggregate; unique within scope of Collection identified by Collection-ID.	Text string: characters valid within SGML ID value	JCEV23	Χ <u>†</u>		Component of DC.Identifier		Component of <publicationstmt> <idno type="LocalID"></idno></publicationstmt>	Used for identification and linking. Once assigned, this value should must not change, even as additional Aggregates may be added to the collection.
Aggregate-Author	Author of the Aggregate	Text string	Spenser, Edmund	X±	X	DC.Creator		<pre><sourcedesc> <seriesstmt> <respstmt> <resp>Author<!-- resp--> <name></name></resp></respstmt></seriesstmt></sourcedesc></pre>	For monographic works, this may be an author whose collected works comprise the series. Names must be in format compatible with LCNAF (lastname, firstname).
Aggregate- Editor	Editor of the Aggregate	Text string	Child, L. Maria		X	or		<pre><sourcedesc> <seriesstmt> <respstmt> <resp>Editor<!-- resp--> <name></name></resp></respstmt></seriesstmt></sourcedesc></pre>	For monographic collections, this may be an editor of a series. Names must be in format compatible with LCNAF (lastname, firstname).
Aggregate-Title	Title of the Aggregate	Text string	The Collected	X <u>†</u>	X	DC.Title	245 440	<sourcedesc> <seriesstmt></seriesstmt></sourcedesc>	The type attribute of the TEI <title> element should use</td></tr></tbody></table></title>

			Works of Edmund Spenser.			760 772 773	t t t	<title></th><th>the appropriate MARC tag as its value.</th></tr><tr><td>Aggregate-
Title-NFC</td><td>Number of
non-filing
characters at
start of
Aggregate-
Title</td><td>Positive integer</td><td>4</td><td>Χţ</td><td></td><td></td><td></td><td></td><td>In database implementations, this value may be prepended to Aggregate-Title, delimited by the pipe character ().</td></tr><tr><td>Aggregate-
Title-Level</td><td>Type of Title
of the
Aggregate</td><td>Text character;
one of:
m[onographic]
j[ournal]
s[eries]
u[npublished]</td><td>m</td><td>Χ<u>†</u></td><td></td><td></td><td></td><td>level attribute
(<title>)</td><td></td></tr><tr><td>Aggregate-
Issue-Sequence-
No-List</td><td>Range of Issue- Sequence-No included within this Aggregate</td><td>Text string: 4-digit sequence numbers separated by a hyphen</td><td>0001-0014</td><td></td><td></td><td></td><td></td><td></td><td>Always use the lowest and highest Issue-Sequence-No for this Aggregate. Used for internal processing only.</td></tr></tbody></table></title>
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Object: Issue

Basic unit of distribution. For monographs and some serials this may correspond to a volume.

	Data Element						Crossy	walk	Comments
Name	Definition	Format	Example	Req	Rep	DC	MARC	TEI	Comments
Collection-ID	Unique	Text string:	JCE	X					Foreign key from Collection
	identifier for	characters valid							
	Collection	within SGML							
		ID value							
Aggregate-ID	Unique	Text string:	JCEV23	Χţ					Foreign key from Aggregate
	identifier for	characters valid							
	Aggregate	within SGML							
		ID value							
Subcoll-ID	Unique	Text string:			X				Foreign key from
	identifier for	characters valid							Subcollection. Multiple
	Subcollection	within SGML							values may be combined in a

		ID value							single database field as a
									semicolon-delimited string.
Issue-Sequence-			0003	X					This should start with 0001
No	1 -	digits, zero-							for the first Issue in the
	within scope	padded							Aggregate, and continue in
	of Aggregate								unbroken sequence through
	identified by								the last. If Issues are added
	Aggregate-								or removed, the sequence
	Sequence-No.								must be recalculated. These
									values may be created during
									preprocessing. This number
									has no relationship to any
									number printed on the source Issue. Used to sort files for
									indexing; not used in TEI
									data.
Issue-ID	Identifier for	Text String:	OHehirGael	X	1	DC.Identifier	024 or	<pre><publicationstmt></publicationstmt></pre>	Used for identification and
	Issue; unique	characters valid	icLex	1		Be.identifier	500	<idno< td=""><td>linking. Once assigned, this</td></idno<>	linking. Once assigned, this
	within scope	within SGML						type="LocalID">	value should must not
	1	ID value.							change, even as additional
	identified by								Issues may be added to the
	Collection-ID.								collection. May be URN
									Namespace Specific String.
Issue-Std-No	A standard	Standard-			X				
	number or	Number object							
	identifier,								
	such as ISSN,								
	ISBN, or								
	URN,								
	associated								
Isana Daintad	with the Issue	Tarra sanin s	Volume 3,	V.		Commonant of	Common		Marga in alvada if maggant
Issue-Printed-	Sequential	Text string	Issue 11	X <u>†</u>		DC.Identifier		<idno></idno>	Must include, if present, labels or other non-
No	Issue (in some cases,					DC.Identifier	773 g		enumerative text such as
	Volume)							Component of n	"Volume", "Issue",
	numbering as							attribute (<tei.2>).</tei.2>	"Number", etc. Include
	printed on								numbering for all levels of
	source's title								aggregation (e.g., volume +
			I.			I	1	1	00 10 1 (1.0.)

	page or cover.				Π					issue) in this value.
Issue-Author	Author of the Issue	Text string	Shakespear e, William		X	DC.Creator	100 773	a	<titlestmt> <author></author></titlestmt>	For monographic works, the main author. Names must be in format compatible with LCNAF (lastname, firstname).
Issue-Editor	Editor of the Issue	Text string	Haugen, Einar		X	DC.Contribut or	245 773	c c	<editor></editor>	Names must be in format compatible with LCNAF (lastname, firstname).
Issue-Submitter	Submitter of the (source) Issue	Text string	Walden, Barbara. University of WisconsinMadison. Libraries	X	X		720 e	a	<pre><respstmt> <resp>Submitter< /resp> <name></name></resp></respstmt></pre>	Names (personal or corporate) must be in format compatible with LCNAF. Affiliation must be included when applicable.
Issue-Title	Title of the Issue	Text string	The homes of the New world; impression s of America	X <u>†</u>	X	DC.Title	245 773	t	<titlestmt> <title></td><td>For monographic works, the main title as found in subfields a, b, n, p of field 245 in the MARC catalog record.</td></tr><tr><td>Issue-Title-NFC</td><td>Number of
non-filing
characters at
start of Issue-
Title</td><td>Positive integer</td><td>4</td><td>X<u>†</u></td><td></td><td></td><td></td><td></td><td></td><td>In database implementations, this value may be prepended to Issue-Title, delimited by the pipe character ().</td></tr><tr><td>Issue-Title-
Level</td><td></td><td>Text character;
one of:
m[onographic]
j[ournal]
a[nalytic]
u[npublished]</td><td>m</td><td>X<u>†</u></td><td></td><td></td><td></td><td></td><td>level attribute
(<title>)</td><td></td></tr><tr><td>Issue-PubPlace</td><td>Place of publication of the Issue</td><td>Text string</td><td>Reykjavík</td><td>Χ<u>†</u></td><td></td><td></td><td>260
773</td><td> a
 d</td><td><pubPlace></td><td></td></tr><tr><td>Issue-Publisher</td><td>Publisher of the Issue</td><td>Text string</td><td>menning</td><td>Χ<u>†</u></td><td></td><td>DC.Publisher</td><td>260
773</td><td> b
 d</td><td><publisher></td><td></td></tr><tr><td>Issue-Chron</td><td>Period of time represented by</td><td>Text string</td><td>March 1932</td><td></td><td></td><td>DC.Date</td><td>260
773</td><td> c
 d</td><td><pre><publicationStmt> <date></pre></td><td>For periodicals, this will normally be a month or</td></tr></tbody></table></title></titlestmt>	

	source Issue or date of publication of source Issue, as printed in the source.								quarter and year. For monographs and some serials, this will normally be a year.
Issue-Extent	The physical characteristics of the Issue.	Text string	168 p.: ill. (part fold.); 27 cm.			DC.Format	300 a	<pre><sourcedesc> <extent></extent></sourcedesc></pre>	Whenever possible, this should be copied from the catalog record for the Issue.
Issue-Page- Sequence-No- List	Sequence-No included	Text string: 4- digit sequence numbers separated by a hyphen	0001-0385						Always use the lowest and highest Page-Sequence-No for this Issue. Used for internal processing only.
Issue-Text		Boolean: one of {y n}	У	X					Default is n. Null values will be treated as n.
Issue-Abstract	A textual summary of the content and significance of the Issue.	Text string	Reminiscen ces of a pioneer settler in Milwaukee, Wisconsin, who left his home in Vermont in 1831 []			DC.Descriptio n	520 3_ a	<notesstmt> <note type="Abstract"></note></notesstmt>	No line breaks or markup may be included in the value.
Issue- Availability	Information about copyright, access rights, etc.	Text string	Copyright © 2002 Board of Regents of the University of Wisconsin System.	X	X	DC.Rights	540	<availability></availability>	Standard copyright language should be used when available. If a value is not present in the metadata, it will be copied from Collection-Availability.
Issue- Production-	Whether the Issue has been	Boolean: one of {y n}	У						All and only Issues with a value of y in this field will

Ready	released for					built in the staging
	production					environment. All Issues will
						be built in the test
						environment, regardless of
						the value of Issue-
						Production-Ready.
Issue-Last-	The date the	YYYY(-MM(-	2006-02-14	X		This will inloude only the
Update	Issue was	DD)) format				date of the most recent
	created or last	specified in the				update. The full revision
	updated.	W3C profile of				history will be maintained
		<u>ISO 8601</u>				within the TEI file.
Issue-Last-	The reason	Text string	1	X		This will inloude only the
Update-Reason	the Issue was		created.			reason for the most recent
	last updated.		Inserted			update. The full revision
			three			history will be maintained
			missing			within the TEI file.
			page images.			
		<u> </u>	Tillages.			

Object: Item

Only unit of organization recognized within an *Issue*. Normally corresponds to chapters, articles, etc.

	Data Element						Crossy	walk	Comments
Name	Definition	Format	Example	Req	Rep	DC	MARC	TEI	Comments
Collection-ID	Unique	Text string:	JCE	X					Foreign key from Collection
	identifier for	characters valid							
	Collection	within SGML							
		ID value							
Issue-ID	Unique	Text string:	00120003	X					Foreign key from Issue
	identifier for	characters valid							
	Issue	within SGML							
		ID value							
Item-ID	Identifier for	Text string:	WTDesmond	X		DC.Identifier	024 or		Used for identification and
	Item; unique	characters valid					500		linking. Once assigned, this
	within scope	within SGML							value should must not
	of Issue	ID value							change. Must be used if
	identified by								Item-Type is "Article" or

	Issue-ID.								"Work". May be used in a URN Namespace Specific
Item-Sequence-No	Identifier for Item; unique within scope of Issue identified by Issue-ID.	Number: 4 digits, zero- padded	0023	X					This should start with 0001 for the first Item in the Issue, and continue in unbroken sequence through the last. If Items are added or removed, the sequence must be recalculated. The division of the Issues into Items must be complete (every Page must occur within at least one Item), but may be somewhat arbitrary when there is no explicit internal structure or when the internal structure is hierarchical and must be flattened into a single Item layer. Used to sort Items within the TEI file; not
Item-Std-No	Standard identifier for Item	Standard- Number object			X				In relational database, may be entered as a semicolon-delimited string.
Item-Type	Type of Item	Text String; one of the values for values for values for values for values defined in section 5.2.1 of Guidelines for Markup of Electronic Texts. To this list may be added: Title Page.		X		DC.Type		type attribute (<div1>)</div1>	Default value is "Section".
Item-Author	Author of the	Text string	Steinfeldt		X	DC.Creator	100	<notesstmt></notesstmt>	Names must be in format

	Item		, Harry				Compon ent of 505	 <author> <div1> <docauthor></docauthor></div1></author>	compatible with LCNAF (lastname, firstname).
Item-Title	Title of the Item	Text string	The Use of Chemicals in Education: an Experiment		X	DC.Title	245 505	<pre><notesstmt> <bibl> <title> <div1> <head> <title></pre></td><td>A default string may be supplied by the application when no title is present, e.g. to provide clickable text in a contents list.</td></tr><tr><td>Item-Title-NFC</td><td>Number of
non-filing
characters at
start of Item-
Title</td><td>Positive integer</td><td>4</td><td>X<u>†</u></td><td></td><td></td><td></td><td></td><td>In database implementations, this value may be prepended to Item-Title, delimited by the pipe character ().</td></tr><tr><td>Item-Abstract</td><td>A textual summary of the content and significance of the Item.</td><td>Text string</td><td>[]</td><td></td><td></td><td>DC.Description</td><td>520 3_
 a</td><td></td><td>No line breaks or markup may be included in the value.</td></tr><tr><td>Item-First-
Printed-Page-
No</td><td>Page number
printed on
first Page of
this Item</td><td>Text String</td><td>A19</td><td></td><td></td><td></td><td></td><td></td><td>Used for internal processing only.</td></tr><tr><td>Item-Page-
Sequence-No-
List</td><td></td><td>Text string: 4-
digit sequence
numbers
separated by a
hyphen</td><td>0023-0031</td><td>X</td><td></td><td></td><td></td><td></td><td>Always use the lowest and highest Page-Sequence-No for this Item. Used for internal processing only.</td></tr></tbody></table></title></bibl></notesstmt></pre>	

Object: Page

A single page.

Data Element			Req/Rep)	Commonts			
Name	Definition	Format	Example	Req Rej	DC DC	MARC	TEI	Comments

Collection-ID	Unique identifier for Collection	Text string: characters valid within SGML ID value	JCE	X				Foreign key from Collection
Issue-ID	Unique identifier for Issue	Text string: characters valid within SGML ID value	00120003	X				Foreign key from <u>Issue</u>
Page-ID	Identifier for Page; unique within scope of Issue identified by Issue-ID.	Text string: characters valid within SGML ID value	p0023	X	Component of DC.Identifier	ent of 024 or 500	Component of attributes id (<figure>) and entity (<figure>), and of entity names.</figure></figure>	Used for identification and linking. Once assigned, this value should not change, even as additional Issues may be added to the collection. May be <u>URN</u> Namespace Specific String.
Page-Sequence- No	Identifier for Page; unique within scope of Issue identified by Issue-ID.	Number: 4 digits, zero- padded	0029					This should start with 0001 for the first Page in the Issue, and continue in unbroken sequence through the last. If Pages are added or removed, the sequence must be recalculated. This number has no relationship to any number printed on the source page. Used to sort Pages within the TEI file; not explicitly used in TEI data.
Page-Printed- No	Sequential Page number as printed on source page.	Text string	A20	X±	DC.Identifier		n attribute (<figure>) n attribute (<pb>)</pb></figure>	Roman numerals, etc., should be transcribed exactly as printed on the source page.
Page- Description	Textual description of Page content.	Text string	Chairs; Tables; Furniture		DC.Description	6xx	<figure> <figdesc></figdesc></figure>	May be used to provide keyword access to page images containing figures or ilustrations. No markup should be included in text.
Page-Text	ISO 8859-1 encoding of	Text string			DC.Description		<figure></figure>	Will normally be generated by OCR software, and may

	text on Page.							or may not be corrected. No markup should be included in text.
Page-Location	System subpath (within Collection) to image file	Text string	0012/0003/	X	Component of DC.Identifier		Component of SYSTEM specification for entity definition.	The path to the image should consist only of that part of the full path local to the collection; that is, the directories under /db/otmap/[Collection-ID]/htdocs/data/images/.
Page-Filename	Base filename for image of this Page	Text string	0120030029	X	Component of DC.Identifier		Component of SYSTEM specification for entity definition.	The filename extension should not be included; the extension for image files will be derived from Page-Format, while the extension for OCR text files will be assumed to be ".txt". This implies that if OCR text is stored in a file corresponding to a page image, the filenames must be identical except for the extension.
Page-Format	Type of file created	Valid <u>MIME</u> <u>Media Type</u>	image/tiff	X	DC.Format	856 q	Used to construct component of SYSTEM specification for entity definition.	Used to determine filename extension for image files.
Page-Notes	Additional information about the source which might impact scanning quality, such as film type, print type, bound or unbound volumes, etc.	Text string	unbound cutup issue					Not currently used in retrieval or interface processing. Derived from former field Page-Source-Details.

Object: Standard-Number

Standard identifier according to some published scheme.

Data Element			Req/	Rep	Crosswalk			Comments	
Name	Definition	Format	Example	Req	Rep	DC	MARC	TEI	Comments
Std-No-Type	Type of	Text string	ISSN			DC.Identifier		type attribute	Must be supplied for each
	standard identifier		SICI			[scheme]		(<idno>)</idno>	Std-No-Value.
Std-No-Value	A standard number or identifier, such as ISSN, ISBN, or URN.	Text string	0021-9584 0277- 786X()364< 123:COIPDA >2.0.TX;2- S				020 022 024	<idno></idno>	

[†] required when applicable

Key to heading abbreviations

Req	Required
Rep	Repeatable
DC	Dublin Core
MARC	Machine-Readable Cataloging record
MODS	
TEI	Text Encoding Initiative

Contributors

This document is the result of a number of discussions held over several years, most recently in February 2006. Participants include:

- Steven Dast
- Kirstin Dougan
- Mark Foster
- Peter Gorman

Digital Library Data Dictionary Multimedia and Bibliographic Databases

- Heather McCullough
- Amy Rudersdorf
- Rose Smith
- Jessica Williams

References

[W3C-DTF] Wolf, Misha; Wicksteed, Charles (World Wide Web Consortium). *Date and Time Formats*<URL: http://www.w3.org/TR/NOTE-datetime>