Updates to DDI-Codebook

DDI Version 2.5 – 14 January 2012

DDI-Codebook was updated in response to requests for new DDI elements and attributes and to facilitate the transformation of metadata from DDI-Lifecycle to DDI-Codebook and back.

GENERAL

FEATURE	DESCRIPTION
Citation	Three changes have been made to citation in all of its locations. IDNo
	attribute "level" has been extended to include the valid value of project.
	Series statement (serStmt) has been made repeatable to allow for
	membership in multiple series. Citation now provides the option to
	support all qualified Dublin Core elements (dc and dcterms).
codeBookAgency	A place to put a registered DDI agency identifier.
Controlled Vocabularies	A structure has been added to DDI-Codebook to allow for the use of the
	controlled vocabulary structure used in DDI-Lifecycle. To ensure backward
	compatibility, controlled vocabularies are listed in the document
	description section (docDscr) following the citation. The fields are similar
	to those in DDI-Lifecycle with the addition of a usage eleemnt where one
	must note the element or attribute that uses the controlled vocabulary
	using an XPATH. Restricted elements with internal code values were
	opened up with the addition of "other" to the allowed codes and an
	attribute that allows for listing the other value.
date fields (new)	New date fields enforce the use of the ISO structure allowing for YYYY,
	YYYY-MM, and YYYY-MM-DD plus time.
ddiCodebookUrn	Allows all elements to have a DDI-Codebook URN.
ddiLifecycleUrn	Allows all elements to capture an element URN from a DDI-Lifecycle
	element.
elementVersion	Allows all elements to contain a version number.
elementVersionDate	Allows all elements to contain a version date.
Notes	All notes can now explicitly state their parent element (for example, a
	Variable Note can reference the ID of the variable it is nested under). If the
	same note is related to a number of elements, a single note can be treated
	as a "master note" and list the elements it is related to. This addresses the
	different structure of notes in DDI-Lifecycle if moved into DDI-Codebook
	and allows DDI-Codebook users who wish to prepare for a transformation
	to DDI-Lifecycle to capture this information in a single location.
XHTML	Permits the optional use of XHTML wherever formatted text is allowed.
	This enables structured text to transfer directly from DDI-Lifecycle or for
	the user to prepare currently structured text in DDI-Codebook to be
	restructured to a format compatible with DDI-Lifecycle. Consult the
	documentation before using.

SPECIFIC FEATURES

Most specific changes were made to the study description section of DDI-Codebook. The features are listed in alphabetical order within their primary section of the DDI-Codebook schema.

Study Description (stdyDscr)		
abstract NEW attribute	Provides a tag indicating that the content should be mapped to a DDI-	
contentType	Lifecycle Abstract or Purpose or mixed. Mixed content can be tagged	
	internally using structure tags. This is used to facilitate the transformation	
	between the two development branches of DDI.	
catLevel NEW attribute	Provides the ability to reference one or more maps described by the	
geoMap	element geoMap by listing the IDs of the relevant maps. This feature is used	
	when the described map pertains to a limited set of categories in a	
	hierarchical category scheme as described using the catLevel element.	
codingInstructions	Provides for a detailed set of information on coding instructions including	
	the type, any related processes, a description, and formal command	
	language.	
collectorTraining	This reflects new information that will be added to DDI-Lifecycle covering	
	the type of training provided to the data collector. It includes a type	
	attribute.	
dataAppr NEW attribute	A type attribute has been added to <i>Data Appraisal (dataAppr)</i> to support	
type	better classification of this activity.	
dataCollector NEW	A role attribute was added to distinguish between different roles provided	
attribute role	by different data collectors. This could differentiate between steps in the	
	process or type of position such as supervisor.	
dataProcessing	Allows for a typed description of data processing during the collection, initial	
	processing, or creation of a data product.	
exPostEvaluation	This element has been added to capture the step of process evaluation for a	
	study. It provides a means of capturing information on the completion date,	
	type of evaluation, evaluator, evaluation process, and outcome of the	
	evaluation. This relates to the step "Process Evaluation" found in the	
	Generaic Statistical Business Process Model (GSBPM). A similar structure will	
	be added to DDI-Lifecycle.	
instrumentDevelopment	This reflects new information that will be added to DDI-Lifecycle covering	
	the instrument development process. There is a type attribute and an option	
	for structured content.	
qualityStatement	This is a structured element that allows for the identification of specific	
	standards to which the study complies and a description of that compliance.	
	In addition, any form of quality statement not associated with a standard	
	can be entered here.	
sampleFrame	This reflects new information that will be added to DDI-Lifecycle covering	
	the details of the sample frame used for the study sample. It includes	
	information including the standard name, label, and description elements,	
	plus a valid date for the frame, who maintains it, its use, universe, frame	
	unit information, a reference period, and update procedures.	
sourceCitation	A citation has been added to sources to allow for a specific identification of	
	an external data source.	

studyAuthorization	Provides structured information on the agency that authorized the study,	
	the date of authorization, and an authorization statement, i.e., a law	
	authorizing a census, a statement from an Internal Review Board, etc.	
studyBudget	Provides a text field where the overall budget of a study can be entered. The	
	field allows for structured content.	
targetSampleSize	Allows for specific information regarding the target sample size, actual	
	sample size, and the formula used to determine this.	
File Description (fileDscr)		
fileCitation	Allows for the provision of a citation to a specific data file that is being	
	described by the DDI-Codebook.	
fileStrc NEW attribute	This allows for a single description of a file structure when multiple data	
fileStrcRef	files share the same structure. After the first file's structure is described,	
	the others can simply reference this description.	
Data Description (dataDscr)		
Question NEW attributes	Questions have a new attribute which allows for the direct identification	
responseDomainType	of a specific DDI-Lifecycle response domain type (i.e., code, datetime,	
otherResponseDomainTy	De numeric, etc). This clarifies any ambiguity for transforms from DDI-	
	Codebook to DDI-Lifecycle and allows for specific identification of this	
	information when transforming from DDI-Lifecycle to DDI-Codebook.	
Variable NEW attributes	Variables have a new attribute which allows for the direct identification	
representationType	of a specific DDI-Lifecycle representation type (i.e., category, code, text,	
otherRepresentationType	etc). This clarifies any ambiguity for transforms from DDI-Codebook to	
	DDI-Lifecycle and allows for specific identification of this information	
	when transforming from DDI-Lifecycle to DDI-Codebook.	

Updating existing DDI Codebook instances to version 2.5

A number of changes were made to the namespace in order to bring it into line with the structure of DDI-Lifecycle namespaces and ease transformation to further versions within this development line. Note that the version number is no longer part of the XML schema filename.

The DDI-Codebook development line is backward compatible meaning that instances compliant with DDI versions 1 - 2.1 will also be compliant with version 2.5. Note that the canonical expression of DDI versions through 2.1 is the DTD. Some editing software references an XML schema version of the canonical DTD. To update these files to version 2.5 you will need to make the following changes:

If the instance refers to the DTD:

EXAMPLE:

```
<?xml version='1.0' encoding='UTF-8'?>
<!DOCTYPE codeBook SYSTEM
"http://www.icpsr.umich.edu/DDI/Version2-1.dtd">
```

<codeBook version="2.1">

REMOVE the DOCTYPE declaration (i.e. <!DOCTYPE codeBook SYSTEM "http://www/icpsr.umich.edu/files/DDI/Version2-1.dtd">)

ADD the following to <codeBook>

Declare the DDI 2.5 target namespace:

xmlns="ddi:codebook:2_5"

Declare the XMLSchema-instance (xsi) namespace:

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

Insert a reference to the schema location using the XMLSchema-instance schemaLocation:

xsi:schemaLocation="ddi:codebook:2_5 codebook.xsd"

CHANGE the value of the attribute "version" in the element "codeBook" to "2.5".

EXAMPLE:

```
<?xml version='1.0' encoding='UTF-8'?>
<codeBook xmlns="ddi:codebook:2_5"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="ddi:codebook:2_5 codebook.xsd" version="2.5">
```

The above xsi:schemaLocation assumes the XML instance is in the same folder as codebook.xsd. If a local copy is being used and is in another location, add the pathname to codebook.xsd.

To reference the remote location at the DDI Alliance use:

xsi:schemaLocation="ddi:codebook:2_5
http://www.ddialliance.org/Specification/DDICodebook/2.5/XMLSchema/codebook.xsd"

If the instance refers to an XML schema:

CHANGE the target namespace, and xsi:schemaLocation and version number to the values noted above.

ADD XMLSchema-instance if needed.