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Part II: User Guide

Table of Contents

Overview	3
1 - Navigating the HTML Field Level Documentation	4
2 - DDI Structural Features.....	6
2.1 - Exchange structures.....	6
2.2 - Maintainable structures.....	8
2.3 - Organizing Publication Package Contents	11
2.4 - Managing Metadata Over Time	11
2.5 - Common Structures.....	12
2.5.1 - String, Controlled Vocabularies	12
2.5.2 - Dates	14
2.5.3 - Citation and Coverage.....	14
2.5.4 - Notes.....	14
2.5.5 - OtherMaterial	14
3 - User Stories – Applying DDI	15
3.1 - Documenting a simple study – Researcher perspective.....	15
3.2 - Documenting a simple study – Archive perspective (legacy material).....	15
3.3 - Documenting a longitudinal study.....	15
3.4 - Questionnaire development.....	15
3.5 - Quality control of reusable content.....	15
3.6 - DataElement management.....	15
3.7 - Concept management	15
3.8 - Geography and universe management	15
3.9 - Physical data management.....	15
3.10 - DDI and OAIS – Archives and provenance	15
3.11 - DDI and GSIM – implementation of the conceptual model	15
3.12 - DDI and Data Discovery	15

DRAFT

3.13 - Metadata driven processing	15
Appendix A: Sequence of ResourcePackage, Group, and StudyUnit.....	16
Appendix B: XHTML Tags Support by DDI.....	19

DRAFT

Documentation of the DDI specification is provided in three ways:

Field Level Documentation

AUDIENCE: Developers, database developers, mappings, base level for content providers (what an object is in relation to parent and child elements)

This documentation is found within the DDI Schemas and displayed in the HTML documentation. It provides a brief description of the purpose and content of the object. Documentation found in the complex Type description will provide more detail than the element documentation. Within a complex type, the additional documentation of sub-elements will focus on its purpose within the context of the complex type.

Part I - Technical Documentation

AUDIENCE: Developers, integrated usage and applications for content providers

Organized by related sets of objects, e.g. Question Item, Question Grid, and Question Block, this documentation provides details of the structure and its intended application. Each set contains examples of usage. It contains information on the relationship of DDI to other standards, common XML structures used by DDI, design and consistency rules, description of major structural types (modules and schemes), technical features for identification and reference, basic types for dates and strings, and all major complex elements. The complex element content is organized alphabetically by set and an index is provided for all elements. This documentation also contains lists of: 3.1 to 3.2 changes, all unique element and attribute names, and elements by extension base (Identifiable, Versionable, Maintainable, Reference, CodeValue, etc.).

Part II - User Guide

AUDIENCE: Content providers, those focusing on specific applied uses of DDI

Provides instructions for navigating the HTML Field Level Documentation and reviews basic structural features focusing on their usage, such as exchange structures, organizing publication package content, managing data over time, common structure like strings, controlled vocabularies, dates, citation and coverage, notes and other material. This general section is followed by a set of user stories (applying DDI). The focus is on how the parts of DDI work together to describe the metadata and data for particular functions such as documenting a longitudinal study or developing a questionnaire. Wherever appropriate, Part I will reference the more detailed technical documentation in Part I.

DRAFT

Overview

The Part II: User Guide has been provided to help the user navigate through the DDI Lifecycle content and get a sense of its overall structure. However the primary focus is on the sets of metadata required for specific applications. References to related documentation in Part I: Technical Structures are provided throughout the User Guide as inline references indicating Part I and the section number using this format [pt1:2.1.2]. The User Guide is organized into three main sections: Navigating the HTML Field Level Documentation, DDI Structural Features, and User Stories – Applying DDI. Note that the user can start at any point in the User Guide as the User Stories will provide references to content in the DDI Structural Features when appropriate using the section number and title, for example [2.3 Organizing Publication Package Contents].

1 - Navigating the HTML Field Level Documentation

The HTML documentation is generated from the content of the DDI schema set. The upper left frame contains primary navigation and opens on the Overview which lists the 22 Namespaces and 42 XML Schemas that comprise DDI Lifecycle. The lower left frame lists All Components (1181 Elements, 473 Complex Elements, 68 Simple Types, 71 Element Groups, 7 Attributes, and 70 Attribute Groups). It seems like a lot but over half the XML Schemas, all the Element Groups, Attributes, and Attribute Groups are there to support the use of XHTML or Dublin Core. The lower left frame can be focused on a single XML Schema content by clicking on the name of that XML Schema in the upper left Frame.

Field level documentation provides information on what the field contains and if it is a complex element how the elements and attributes within it are used. If you need to know what a specific element contains you can find it in the alphabetical element list in the lower left frame and click on it, for example, MetadataQuality.

DRAFT

The screenshot displays an XML Schema browser interface. On the left is a tree view of schema files, including `group.xsd`, `instance.xsd`, `logicalproduct.xsd`, `physicaldataprotuct.xsd`, `physicaldataprotuct.ncube.inline.xsd`, `physicaldataprotuct.ncube.normal.xsd`, `physicaldataprotuct.ncube.tabular.xsd`, `physicaldataprotuct.proprietary.xsd`, `physcalinstance.xsd`, `reusable.xsd`, `studyunit.xsd`, `xhimi.attrs-1.xsd`, `xhimi.bdo-1.xsd`, `xhimi.bikphras-1.xsd`, `xhimi.bikpres-1.xsd`, `xhimi.bikstruct-1.xsd`, and `xhimi.charent-1.xsd`. Below this are various logical types like `LocationValueName`, `LogicalProduct`, `LogicalProductReference`, `LogicalRecord`, `LogicalRecordName`, `LogicalRecordReference`, `Loop`, `LoopVariableReference`, `Low`, `LowestLevelReference`, `MaintainableID`, `MaintainableObject`, `MaintainableVersion`, `ManagingAgency`, `MapName`, `MarkedIncrement`, `MaximumValue`, `Measure`, `MeasureDefinition`, `MeasureDefinitionReference`, `MeasurementUnit`, `MeasurePurpose`, `MeasureValue`, `Media`, `mediator`, `medium`, `MetadataQuality`, `Methodology`, `Middle`, `MIMEType`, `MinimumValue`, `MissingValuesDelineation`, `MissingValuesDelineationGroup`, and `MissingValuesDelineationGroupName`.

The main pane shows the details for the `<MetadataQuality>` element (global). It includes the following information:

- Namespace:** `ddi:reusable:2_dev`
- Type:** `MetadataQualityType`
- Content:** complex, 4 elements
- Defined:** globally in `reusable.xsd`; see [XML source](#)
- Used:** at 1 location

XML Representation Summary

```
<MetadataQuality>
  Content: QualityMeasure, MeasurePurpose?, MeasureValue?, Description?
</MetadataQuality>
```

Content model elements (4):

[Description](#), [MeasurePurpose](#), [MeasureValue](#), [QualityMeasure](#)

Included in content model of elements (52):

[Archive](#), [BaseLogicalProduct](#), [CategoryDelineationScheme](#), [CategoryScheme](#), [CodeDelineationScheme](#), [CodeList](#), [CodeListScheme](#), [Comparison](#), [ConceptScheme](#), [ConceptualComponent](#), [ControlConstructScheme](#), [DDIInstance](#), [DDIProfile](#), [DataCollection](#), [DataElementScheme](#), [DateTimeDelineationScheme](#), [DistributionDelineationScheme](#), [FragmentInstance](#), [GeographicDelineationScheme](#), [GeographicLocationCodeDelineationScheme](#), [GeographicLocationScheme](#), [GeographicStructureCodeDelineationScheme](#), [GeographicStructureScheme](#), [Group](#), [InstrumentScheme](#), [InterviewerInstructionScheme](#), [LocalGroupContent](#), [LocalHoldingPackage](#), [LocalResourcePackageContent](#), [LocalStudyUnitContent](#), [LocationDelineationScheme](#), [LogicalProduct](#), [MissingValuesDelineationScheme](#), [NCubeScheme](#), [NominalDelineationScheme](#), [NumericDelineationScheme](#), [OrganizationScheme](#), [PhysicalDataProduct](#), [PhysicalInstance](#), [PhysicalStructureScheme](#), [ProcessingEventScheme](#), [ProcessingInstructionScheme](#), [QualityStatementScheme](#), [QuestionScheme](#), [RankingDelineationScheme](#), [RecordLayoutScheme](#), [ResourcePackage](#), [ScaleDelineationScheme](#), [StudyUnit](#), [TextDelineationScheme](#), [UniverseScheme](#), [VariableScheme](#)

Known Usage Locations

- Within global complexTypes (1):
[AbstractMaintainableType](#) [ref]

Annotation

This element provides a generic means of making a statement of metadata quality within a maintainable object.

XML Source (w/o annotations (1); see within schema source)

```
<xs:element name="MetadataQuality" type="MetadataQualityType"/>
```

XML schema documentation generated with [DocFlexXML](#) 1.8.7 using [DocFlexXML XSDDoc](#) 2.7.0 template set

The right frame now provides information on the element `MetadataQuality` including what namespace it is in, the type, contents, where it is defined, and where it is used. This is followed by the XML Representation Summary (a listing of each element and its cardinality expressed as required/not repeatable [], required/repeatable [+], optional/not repeatable [?], or optional/repeatable [*]). The elements within the content model are listed in alphabetical order followed by the list of elements where `MetadataQuality` is available, known usage locations, documentation (annotation), and the XML Source. All of these contain clickable links for additional details. For the full description of the structure click on the “Type:” in the top section. This will provide content and documentation details for the structure. To understand the use of the object in a specific location click on the name of the object that includes it.

DRAFT

The screenshot displays a software interface for viewing XML schema documentation. On the left, a sidebar lists various schema files such as `group.xsd`, `instance.xsd`, `logicalproduct.xsd`, and `physicaldataproduct.ncube.normal.xsd`. The main area is divided into three sections:

- XML Source** (w/o annotations (5); see within schema source):

```
<xs:complexType name="MetadataQualityType">
  <xs:sequence>
    <xs:element ref="QualityMeasure"/>
    <xs:element minOccurs="0" ref="MeasurePurpose"/>
    <xs:element minOccurs="0" ref="MeasureValue"/>
    <xs:element minOccurs="0" ref="Description"/>
  </xs:sequence>
</xs:complexType>
```
- Content Element Detail** (all declarations, defined within this component only; 4/4):
 - Description**: Type: `StructuredStringType`, complex content. A description of the measure value allowing for multiple language equivalences and structured text. XML Source: `<xs:element minOccurs="0" ref="Description"/>`
 - MeasurePurpose**: Type: `StructuredStringType`, complex content. The purpose of the quality measure for the metadata. What it tells the user regarding the quality of the metadata. XML Source: `<xs:element minOccurs="0" ref="MeasurePurpose"/>`
 - MeasureValue**: Type: `CodeValueType`, simple content. The value of the quality measure expressed as a short string or controlled vocabulary. Simple Content: `xs:string`. XML Source: `<xs:element minOccurs="0" ref="MeasureValue"/>`
 - QualityMeasure**: Type: `CodeValueType`, simple content. The type of quality measure being used expressed using a short string or controlled vocabulary. Simple Content: `xs:string`

Now in addition to the information on first screen you have more extensive documentation for the complex element, a more detailed XML Source showing order and cardinality as XML schema, and content element detail including type information and documentation of what each element is intended to contain.

If you are starting from scratch and just want to explore start at the element `DDIInstance` which is the top level publishing structure in DDI then work your way down through the structures of the primary document types. The most commonly used DDI lifecycle document is `StudyUnit` and it corresponds most closely to the content coverage of DDI Codebook. See DDI Structural Features for basic content organization [2.1 Exchange structures, and 2.2 Maintainable structures].

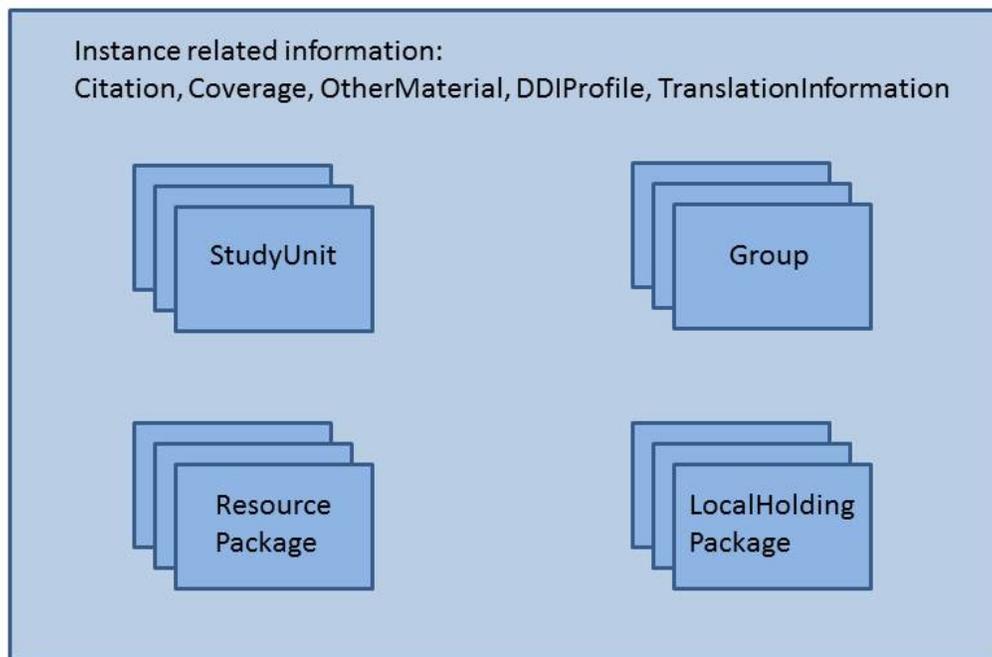
2 - DDI Structural Features

2.1 - Exchange structures

DDI Lifecycle instances are published and exchanged with one of two external wrappers, `DDIInstance` or `FragmentInstance`. The `DDIInstance` provides a consistent top-level publication wrapper and in addition to some basic information about itself serves as the publication wrapper for four primary document types: `StudyUnit`, `Group`, `ResourcePackage`, and `LocalHoldingPackage`. The `FragmentInstance` is a uniform package used to transfer maintainable or versionable objects plus any associated Notes or `OtherMaterial`. These would be packets sent in response to system calls (external references, query calls, etc.).

DRAFT

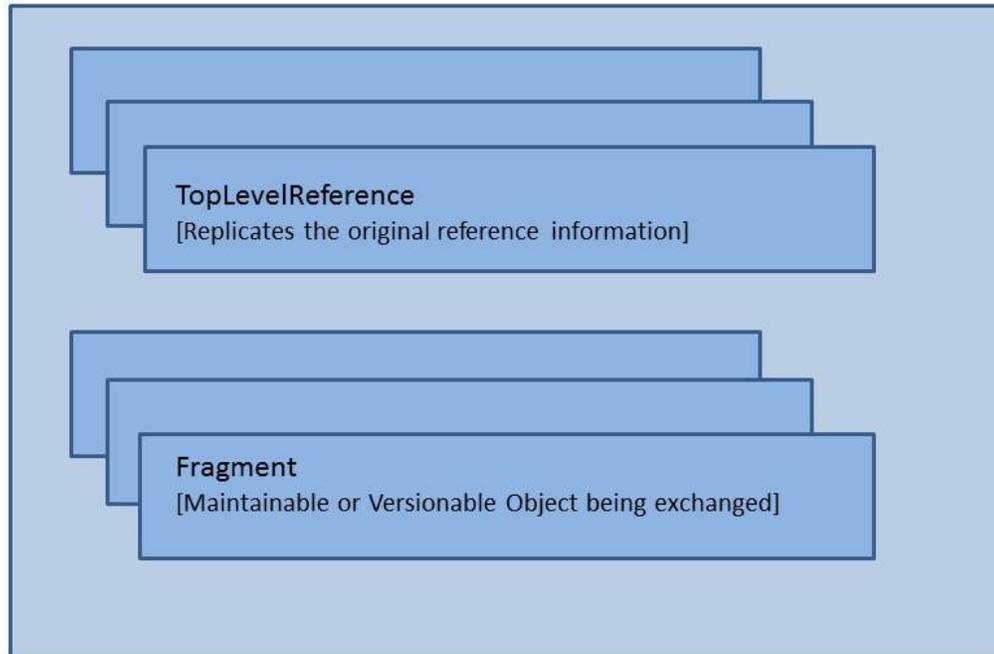
DDIInstance



The Citation, Coverage, OtherMaterial, DDIProfile, and TranslationInformation pertain to the DDI Instance as a whole. Note that the DDIInstance may be viewed as a temporary wrapper for publishing or transporting any of the major publication structures within DDI.

DRAFT

FragmentInstance



The `FragmentInstance` is a wrapper for transporting a response to a request for a specific set of information. Although `Maintainable`, `Versionable`, and `Identifiable` objects may be referenced, the `FragmentInstance` can only transport a `Maintainable` or `Versionable` object. If an `Identifiable` is the referenced object, its parent `Versionable` (or `Maintainable`) will be supplied. A `FragmentInstance` may contain any number of `Versionable` or `Maintainable` objects. The objects that are the specific responses to the request are listed in the `TopLevelReference`. For example, a single `CodeList` (`Versionable` object) may be requested and the `FragmentInstance` sent in response may contain the `CodeList`, the containing `CodeListScheme`, the referenced `Categories`, and the containing `CategoryScheme`. The requested `CodeList` would be noted in the `TopLevelReference` and the content of the returned objects would make up the `Fragments`.

2.2 - Maintainable structures

DDI has two types of maintainable structures; `Modules` and `Schemes`. `Modules` are conceptually related groups of metadata related to stages within a lifecycle. `Schemes` are maintainable lists of reusable objects of specified generic types (i.e., questions) and usually include a means of expressing groups of

DRAFT

these objects for administrative purposes. The following is a list of Modules and Schemes available in DDI Lifecycle along with the namespace of the object, the object name, and a description.

Modules		
a	Archive	Contains information concerning the organization providing archival functions, the position of the related metadata and data within the organization, and preservation/provenance information about the metadata and data including LifeCycleEvents.
l	CodeList	A special form of maintainable that allows a single codelist to be maintained outside of a CodeListScheme.
cm	Comparison	Contains information on comparison of similar metadata objects using mapping between a source and target object.
c	ConceptualComponent	Contains descriptions of Concepts, Universes, DataElements, GeographicStructures, and GeographicLocations.
d	DataCollection	Contains information on data collection, capture, methodology, and processing of data.
pr	DDIProfile	A specialized meta-model structure that specifies the elements in DDI used by an application, organization, or project and how they are used.
g	Group	A publication module that pulls together multiple StudyUnits with either an intended relationship (i.e., longitudinal study) or an ad-hoc relationship (i.e., studies on aging used within an instructional package).
g	LocalHoldingPackage	A publication structure that allows an archive or library to bind locally produced metadata to deposited metadata without altering the original metadata set.
g	LocalGroupContent	Locally produced Group content within a LocalHoldingPackage.
g	LocalResourcePackageContent	Locally produced ResourcePackage content within a LocalHoldingPackage.
g	LocalStudyUnitContent	Locally produced StudyUnit content within a LocalHoldingPackage.
l	LogicalProduct	Contains information on the intellectual structure of the data (i.e., Variables, NCubes), including CategorySchemes, CodeListSchemes, and information on how the data are organized into LogicalRecords and the Relationship of those records to each other.

DRAFT

p	PhysicalDataProduct	Contains information on the physical structure of the data including file structures and RecordLayout structures. Links to the LogicalRecord.
pi	PhysicalInstance	A metadata record for a data file providing identification information for the data file, a link to the RecordLayouts found in the data file, and summary statistics for the data file.
g	ResourcePackage	A publication structure that allows any maintainable object that is not a publication package to be published as a reusable resource outside of the context of a specific study.
s	StudyUnit	A publication structure for a specific study. Structures identification information, full bibliographic and discovery information, administrative information, all of the reusable delineations used for response domains and variable representations, and modules covering different points in the lifecycle of the study (DataCollection, LogicalProduct, PhysicalDataProduct, PhysicalInstance, Archive, and DDIPProfile).
Schemes		
l	CategoryScheme	
l	CodeListScheme	
c	ConceptScheme	
c	ConceptualVariableScheme	
d	ControlConstructScheme	
c	GeographicLocationScheme	
c	GeographicStructureScheme	
d	InstrumentScheme	
d	InterviewerInstructionScheme	
l	NCubeScheme	
r	ManagedRepresentationScheme	
a	OrganizationScheme	
p	PhysicalStructureScheme	
d	ProcessingEventScheme	
d	ProcessingInstructionScheme	
r	QualityStatementScheme	
d	QuestionScheme	
p	RecordLayoutScheme	
l	RepresentedVariableScheme	
c	UniverseScheme	
l	VariableScheme	

DRAFT

2.3 - Organizing Publication Package Contents

The major publication packages (StudyUnit, Group, ResourcePackage, and LocalHoldingPackage) organize their contents in a set order or sequence. Although all objects may not be available in each publication structure, the order of all the included non-maintainable objects remains the same. The maintainable objects in Group and StudyUnit follow the same order. In ResourcePackage all maintainable modules fall before the DDI Schemes within the content sequence. Note that within the list of maintainable Modules and maintainable DDI Schemes, the ordering is consistent with Group and StudyUnit. The table in Appendix A lists the content and order of the three primary publication packages. LocalHoldingPackage is a specialized structure that bundles together a publication package from an external agency (StudyUnit, Group, or ResourcePackage) with similarly structure locally added materials. Further information on LocalHoldingPackage structure and usage is found in 3.10 DDI and OAIIS – Archives and provenance.

All maintainable objects published within StudyUnit and Group and all non-DDI scheme maintainable objects in ResourcePackage may be included in-line or by reference. DDI Schemes that are included in a ResourcePackage as separate items (i.e., not included within another Module) must be in-line. ResourcePackage is intended as a means of publishing metadata intended for reuse outside of a single study therefore it is the primary publishing structure for DDI Schemes with content that is used by multiple studies.

How an organization decides to structure its publication packages depends on how they intend to organize, manage, and reuse their metadata. Some organizations publish all their potentially reusable metadata as ResourcePackages with in-line content. StudyUnits and Groups are composed as a set of object specific metadata (Citation through Embargo content) followed by a stack of references. Others prefer to manage all metadata that is not specifically reused in-line within the context of the StudyUnit or Group. There are advantages and disadvantages to both approaches depending upon User Story in question. Both approaches will be discussed within the context of each User Story [3 User Stories – Applying DDI]. If an organization uses one extreme or the other for all or a class of metadata, this should be noted within the organization’s DDIPProfile. For example, noting that the in-line option is not used for specific objects where there is a choice.

2.4 - Managing Metadata Over Time

Organizing for management purposes

Versioning

DDI Scheme Groups

DRAFT

2.5 - Common Structures

There are a number of common structures used by many of the objects in DDI. These deal either with content like strings, dates, and controlled vocabularies, or with common complex structures like Citation, Coverage, Notes, and OtherMaterial. A basic understanding of these common structures allows you to focus on the content coverage and arrangement rather than the fine details. Note that Identification and Reference structures are covered in Part I [pt1:x.x.x].

2.5.1 - String, Controlled Vocabularies

All DDI string content is based on an extension of xs:string and is designed to support the use of multiple language content for a given element where appropriate, structured text content, and for questionnaire related materials, dynamic text. In addition, DDI supports the use of external controlled vocabularies through the structure CodeValue which identifies the source and location of the external controlled vocabulary as well as the term content.

The basic structure is an xs:string which allows for any character in any sequence. Note that XML ignores leading and trailing white spaces as well as control characters like tabs and hard returns. In short it will ignore internal structuring of content. DDI has created the following xs:string extensions to provide support for content structure and language specification where needed.

In some cases, such as the value of a code, leading and trailing spaces are important to both understanding and matching the content. Elements of type="ValueType" provide the attribute xml:space with which the user can declare that leading and trailing white spaces have implications for the meaning of the content. The default value of xml:space is "default". This states that the leading and trailing spaces may be stripped off. By changing the value of xml:space to "preserve" the user specifies that leading and trailing spaces should be retained as they are critical to the understanding of the content.

All elements of type="InternationalStringType" support the use of one or more strings with equivalent language content [pt1:x.x.x]. A common example of this occurs in all primary element names, i.e., VariableName. An InternationalStringType bundles together one or more language equivalents of the same content. This requires the use of a sub-element "String" which is repeated for each language provided. String contains attributes to designate the language of the content and basic translation information.

```
<l:VariableName>
  <r:String xml:lang="en" isTranslated="false"
isTranslatable="true">Household Relationship</r:String>
  <r:String xml:lang="fr" isTranslated="false"
isTranslatable="true">Relation des ménages</r:String>
  <r:String xml:lang="es" isTranslated="true" isTranslatable="true"
translationSourceLanguage="en" translationDate="2012-12-03">Relación
de Hogares</r:String>
</l:VariableName>
```

DRAFT

What this example states is that the contents of the three strings are language equivalents for the VariableName content. The English and French are both original language content. The Spanish content is a translation of the English done on 2012-12-03. All the content may be translated. Bundling language equivalents together within a single object clarifies which language strings contain the same meaning when an object is repeatable.

All elements of a StructutedStringType use the sub-element "Content". Content supports the same language structures using the same attributes as an InternationalStringType. In addition Content may contain a limited set of XHTML structure tags to provide structure to the content. There is one addition attribute "isPlainText" has been added to clarify if the content is to be treated as plain text (no formatting structure). The default value for this attribute is "true". If the content contains structure tags this attribute should be changed to "false". Label and Description are two commonly used elements of this type. A full list of allowed XMTL tags and their usage is found in the appendixes [Appendix B – XHTML Tags Supported by DDI]. The following example is a Description using an unordered (i.e., bulleted) list. Note that, like InternationalStringType the sub-element Content can be repeated for language equivalents.

```
<r:Description>
  <r:Content xml:lang="en" isTranslated="false"
isTranslatable="true" isPlainText="false">A single person may include
any of the following:
  <xhtml:list>
    <xhtml:item>Never married</xhtml:item>
    <xhtml:item>Widowed</xhtml:item>
    <xhtml:item>Divorced</xhtml:item>
  </xhtml:list>
</r:Content>
</r:Description>
```

It would be interpreted as:

A single person may include any of the following:

- Never married
- Widowed
- Divorced

Note that if isPlainText="true" the same line would be interpreted as:

```
A single person may include any of the
following:<xhtml:list><xhtml:item>Never
married</xhtml:item><xhtml:item>Widowed</xhtml:item><xhtml:item>Divorc
ed</xhtml:item></xhtml:list>
```

DRAFT

2.5.2 - Dates

2.5.3 - Citation and Coverage

2.5.4 - Notes

The element Note is available within all Maintainable objects. A Note allows the user to provide information not covered by DDI. It is not intended to replace formal local extensions of the schema, but to support capturing run-time extensions, content that is held in anticipation of a bug correction, or a temporary work-around. The primary use of Note is to capture mid-process Notes or instructions which may be removed later during the processing of the metadata.

A Note is captured once within a Maintainable object and then references the objects that it is related to. A Note can be attached by reference to any object with an ID. The intent of a Note is to be easily removable (removal of the Note also removes all reference links between the Note and the related objects). If a Note is related to objects outside of the Maintainable within which it exists, the Note should be duplicated in the Maintainable object which contains the other related objects. By placing the Note in the parent Maintainable, the user is assured of having all notes related to an object by checking in the parent Maintainable.

When a Note contains information that will be transferred to future elements or attributes (new content of a sub-minor version correction or the development of formal extensions) the use of the ProprietaryInfo (key/value pair) or well-structured content within the NoteContent field is recommended. Examples of different types of Notes are provided in Part I [pt1:note] .

DRAFT

2.5.5 - OtherMaterial

3 - User Stories – Applying DDI

3.1 - Documenting a simple study – Researcher perspective

3.2 - Documenting a simple study – Archive perspective (legacy material)

3.3 - Documenting a longitudinal study

3.4 - Questionnaire development

3.5 - Quality control of reusable content

3.6 – Variable management

3.7 - Concept management

3.8 - Geography and universe management

3.9 - Physical data management

3.10 - DDI and OAIS – Archives and provenance

3.11 - DDI and GSIM – implementation of the conceptual model

3.12 - DDI and Data Discovery

3.13 - Metadata driven processing

DRAFT

Appendix A: Sequence of ResourcePackage, Group, and StudyUnit

ResourcePackage	Group	StudyUnit
Citation	Citation	Citation
Abstract	Abstract	Abstract
AuthorizationSource	AuthorizationSource	AuthorizationSource
UniverseReference	UniverseReference	UniverseReference
SeriesStatement	SeriesStatement	SeriesStatement
QualityStatementReference	QualityStatementReference	QualityStatementScheme (inline or reference)
	ExPostEvaluation	ExPostEvaluation
FundingInformation	FundingInformation	FundingInformation
ProjectBudget	ProjectBudget	StudyBudget
Purpose	Purpose	Purpose
Coverage	Coverage	Coverage
	AnalysisUnit	AnalysisUnit
	KindOfData	KindOfData
OtherMaterial	OtherMaterial	OtherMaterial
	RequiredResourcePackages	RequiredResourcePackages
Embargo	Embargo	Embargo
<i>MAINTIANABLE MODULES, CHOICE OF INLINE OR BY REFERENCE</i>	<i>MAINTIANABLE OBJECTS, CHOICE OF INLINE OR BY REFERENCE</i>	<i>MAINTIANABLE OBJECTS, CHOICE OF INLINE OR BY REFERENCE</i>
ConceptualComponent	GeographicLocationCodeDelineationScheme	GeographicLocationCodeDelineationScheme
DataCollection	GeographicStructureCodeDelineationScheme	GeographicStructureCodeDelineationScheme
LogicalProduct	TextDelineationScheme	TextDelineationScheme
PhysicalDataProduct	DateTimeDelineationScheme	DateTimeDelineationScheme
PhysicalInstance	NumericDelineationScheme	NumericDelineationScheme

DRAFT

Archive	CodeDelineationScheme	CodeDelineationScheme
DDIProfile	CategoryDelineationScheme	CategoryDelineationScheme
Comparison	GeographicDelineationScheme	GeographicDelineationScheme
<i>MAINTIANABLE DDI SCHEMES, INLINE ONLY</i>	NominalDelineationScheme	NominalDelineationScheme
OrganizationScheme	ScaleDelineationScheme	ScaleDelineationScheme
ConceptScheme	LocationDelineationScheme	LocationDelineationScheme
UniverseScheme	RankingDelineationScheme	RankingDelineationScheme
DataElementScheme	DistributionDelineationScheme	DistributionDelineationScheme
GeographicStructureScheme	MissingValuesDelineationScheme	MissingValuesDelineationScheme
GeographicLocationScheme	ConceptualComponent	ConceptualComponent
InterviewerInstructionScheme	DataCollection	DataCollection
ControlConstructScheme	LogicalProduct	LogicalProduct
QuestionScheme	PhysicalDataProduct	PhysicalDataProduct
CategoryScheme	PhysicalInstance	PhysicalInstance
CodeListScheme	Archive	Archive
NCubeScheme	DDIProfile	DDIProfile
VariableScheme	Comparison	
PhysicalStructureScheme	StudyUnit	
RecordLayoutScheme	SubGroup	
QualityStatementScheme		
InstrumentScheme		
ProcessingEventScheme		
ProcessingInstructionScheme		
GeographicLocationCodeDelineationScheme		
GeographicStructureCodeDelineationScheme		
TextDelineationScheme		
DateTimeDelineationScheme		
NumericDelineationScheme		

DRAFT

CodeDelineationScheme		
CategoryDelineationScheme		
GeographicDelineationScheme		
NominalDelineationScheme		
ScaleDelineationScheme		
LocationDelineationScheme		
RankingDelineationScheme		
DistributionDelineationScheme		
MissingValuesDelineationScheme		

DRAFT

Appendix B: XHTML Tags Support by DDI

The following table provides the tag names, descriptions, and legal content for all XHTML tags supported by DDI. A list of unsupported tags follows this list. Most tags support several types of core attributes covering classification, style, internationalization, and events. Refer to W3C for detailed information on attribute usage.

- Note that these elements exist in the xhtml namespace and must be prefixed with that namespace, e.g. <xhtml:p>
- Additional information about XHTML tags can be found at <http://www.w3schools.com/tags/default.asp>

BLOCK ELEMENTS		
address	contact information for the document owner or author	May contain Inline Elements or text
blockquote	block quotation, a long quotation set off in a block of text	Contains Block Elements
div	division - generic way to divide group contents	May contain Block Elements, Inline Elements or text
dl	definition list	Must contain at least one dt or dd element
h1	heading level 1	May contain Inline Elements or text
h2	heading level 2	May contain Inline Elements or text
h3	heading level 3	May contain Inline Elements or text
h4	heading level 4	May contain Inline Elements or text
h5	heading level 5	May contain Inline Elements or text
h6	heading level 6	May contain Inline Elements or text
hr	horizontal line - content separator	No content generally expressed as <xhtml:hr/>
ol	ordered list	Must contain at least one li
p	paragraph	May contain Inline Elements or text
pre	preformatted text	May contain Inline Elements (except img, object, big, small, sub, and sub, at any depth) or text

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table	table	Contains: caption may appear as the first item and only once; optional col or colgroup; one or more of the following tags in order: thead (0..1 and only if tbody is used), tfoot (0..1 and only if tbody is used), tbody (1..n) OR tr (1..n)
ul	unordered list	Must contain one or more li
INLINE ELEMENTS		
a	anchor which defines the hypertext link using an id attribute	May contain Inline Elements (except a at any depth) or text
abbr	abbreviation	May contain Inline Elements or text
acronym	acronym	May contain Inline Elements or text
b	bold	May contain Inline Elements or text
big	big text	May contain Inline Elements or text
br	line break	No content generally expressed as <xhtml:br/>
cite	citation	May contain Inline Elements or text
code	computer code text	May contain Inline Elements or text
dfn	definition term	May contain Inline Elements or text
em	emphasized text	May contain Inline Elements or text
i	italics	May contain Inline Elements or text
kbd	keyboard text	May contain Inline Elements or text
q	quotation, short in line	May contain Inline Elements or text
samp	sample computer code	May contain Inline Elements or text
small	small text	May contain Inline Elements or text
span	section in a document	May contain Inline Elements or text
strong	strong text	May contain Inline Elements or text
sub	subscripted text	May contain Inline Elements or text
sup	superscripted text	May contain Inline Elements or text
tt	teletype text or monospaced text style	May contain Inline Elements or text

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var	variable part of text - indicates instance of a computer code variable or program argument	May contain Inline Elements or text
LIST ELEMENTS		
dd	list definition description	May contain Block Elements, Inline Elements or text
dt	definition (list) term	May contain Inline Elements or text
li	list item - ordered or unordered	May contain Block Elements, Inline Elements or text
TABLE ELEMENTS		
caption	table caption	May contain Inline Elements or text
col	attribute values for one or more columns in a table	No content - provides attributes describing alignment, width, formatting of cells
colgroup	group of columns in a table for formatting	May contain col
tbody	body content in a table	May contain tr
td	cell in a table	May contain Block Elements, Inline Elements or text
tfoot	footer content in a table	May contain tr
th	header cell in a table	May contain Block Elements, Inline Elements or text
thead	header content in a table	May contain tr
tr	row in a table	Must contain one or more of td OR th

Unsupported Tags:

Element Group	Tag	Description
Block	del	delete content
Block	fieldset	Form control group
Block	form	data entry form

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Block	nocript	alternate content for client-side script
Block	ins	inserted content
Block	script	client-side script
Inline	bdo	bidirectional text override
Inline	button	form button control
Inline	del	deleted content
Inline	ins	inserted text
Inline	img	image
Inline	input	form control
Inline	label	form control label
Inline	map	client-side image map
Inline	object	generic embedded object
Inline	ruby	pronunciation annotations for East Asian languages
Inline	script	client-side script
Inline	select	option selector form control
Inline	textarea	multi-line text field form control