

Appendices For DDI as a Common Format for Export and Import from Statistical Packages

Larry Hoyle & Joachim Wackerow

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Appendix 1a – the DDI 3.1 File

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<ddi:DDIInstance xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="ddi:instance:3_1 file:/C:/schemas/DDI31/instance.xsd"
xmlns:dc="ddi:dcelements:3_1"
xmlns:g="ddi:group:3_1"
xmlns:dc2="http://purl.org/dc/elements/1.1/"
xmlns:r="ddi:reusable:3_1"
xmlns:p="ddi:physicaldataprodu:3_1"
xmlns:ddi="ddi:instance:3_1"
xmlns:c="ddi:conceptualcomponent:3_1"
xmlns:l="ddi:logicalproduct:3_1"
xmlns:pi="ddi:physicalinstance:3_1"
id="c52abdcb-da19-4545-b246-95e74beed7e3"
version="1.0.0"
versionDate="2011-10-26T13:33:00"
agency="example.org">
<r:Citation>
<r>Title xml:lang="en-US">EDD2011 DDI Example</r>Title>
<r:Creator>Larry Hoyle</r:Creator>
<r:Creator>Joachim Wackerow</r:Creator>
<dc:DCElements>
<dc2:title xml:lang="en-US">EDD2011 DDI Example</dc2:title>
<dc2:creator>Larry Hoyle</dc2:creator>
<dc2:creator>Joachim Wackerow</dc2:creator>
<dc2:description>A DDI instance describing a sample dataset of imaginary data
intended to have a superset of the metadata elements
representable in JMP, R, SAS 9.3, SPSS 20, Stata11, and StatTransfer.
Created for a presentation at EDDI 2011.</dc2:description>
</dc:DCElements>
</r:Citation>
<g:ResourcePackage id="759e6a68-6a81-432d-a1f5-f5f2c7362341" version="1.0.0" versionDate="2011-10-26T13:33:00" agency="example.org">
<r:Citation>
<r>Title xml:lang="en-US">EDD2011 DDI Example</r>Title>
<dc:DCElements>
<dc2:title xml:lang="en-US">EDD2011 DDI Example</dc2:title>
</dc:DCElements>
</r:Citation>
<g:Purpose id="62fb391d-3e78-44e6-af48-7bf457e6a523">
<r:Content xml:lang="en-US">Created for a presentation at EDDI 2011</r:Content>
</g:Purpose>
<r:UniverseReference>
<r:Scheme>
<r:ID>11059e5c-3b56-4b83-a5ab-0654a3554863</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1.0.0</r:Version>
</r:Scheme>
<r:ID>ff4994d7-7606-475e-8a63-2da31dff29ea</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1.0.0</r:Version>
</r:UniverseReference>

<g>DataCollection>
<DataCollection xmlns="ddi:datacollection:3_1" id="098a8b35-577a-47f9-a6cb-1653737db2b8"
version="1.0.0"
versionDate="2011-10-26T13:33:00"
```

```

agency="example.org">
<r:Description>Can be used for describing assignment of ranges to labels for numeric variables (e.g. BMI)</r:Description>
<ProcessingEvent id="54e6f47b-c69c-40ac-bde1-27bac5676ba7">
<Coding id="c31efbcd-de8c-4cb2-92e0-d60b6db51411">
<GeneralInstruction>
<r:Description>Highest level of hierarchical coding of BMI scores</r:Description>
<r:Command>
<r:CommandText> /* BMI Categories from */
/* http://apps.who.int/bmi/index.jsp?introPage=intro_3.html */
/* expressed as a SAS format */
PROC Format;
value BMIa
low - &lt; 18.5 = 'Underweight'
18.5 - &lt; 25 = 'Normal'
25 - &lt; 30 = 'Overweight'
30 - high = 'Obese';
run;
</r:CommandText>
</r:Command>
</GeneralInstruction>
</Coding>
<Coding id="cc696d19-237e-4c1a-ade2-b8367ffe54af">
<GeneralInstruction>
<r:Description>Lowest level of hierarchical coding of BMI scores</r:Description>
<r:Command>
<r:CommandText> /* BMI Categories from */
/* http://apps.who.int/bmi/index.jsp?introPage=intro_3.html */
/* expressed as a SAS format */
PROC Format;
/* Note that these form a hierarchy under BMIa */
value BMIb
low - &lt; 16 = 'Severe thinness'
16 - &lt; 17 = 'Moderate thinness'
17 - &lt; 18.5 = 'Mild thinness'
18.5 - &lt; 25 = 'Normal'
25 - &lt; 30 = 'Pre-obese'
30 - &lt; 35 = 'Obese Class I'
35 - &lt; 40 = 'Obese Class II'
40 - high = 'Obese Class III';
run;
</r:CommandText>
</r:Command>
</GeneralInstruction>
</Coding>
</ProcessingEvent>
</DataCollection>
</g:DataCollection>
<g:LogicalProduct>
<l:LogicalProduct id="406ebe6d-db28-4e2b-9c97-a11a1e4903a4" version="1.0.0" versionDate="2011-10-26T13:33:00" agency="example.org">
<l:LogicalProductName>EDDI2011</l:LogicalProductName>
<r:Label>Dataset for EDDI2011 - Imaginary people born in the 1940's</r:Label>
<r:Description><h1 xmlns="http://www.w3.org/1999/xhtml">Dataset for EDDI2011 - Imaginary people born in the 1940's</h1>
<h2 xmlns="http://www.w3.org/1999/xhtml">CreationDate:2011-10-19T13:33:00</h2>
<p xmlns="http://www.w3.org/1999/xhtml">This is a sample dataset of imaginary data intended to have a superset of the metadata elements
representable in JMP, R, SAS 9.3, SPSS 20, Stata11, and StatTransfer.</p>
<p xmlns="http://www.w3.org/1999/xhtml">UNIVERSE: Imaginary people born between 1940 and 1949</p>
<h2 xmlns="http://www.w3.org/1999/xhtml">SAS Script producing the data</h2>

```

```

<pre xmlns="http://www.w3.org/1999/xhtml">
libname eddi 'C:\ddrive\projects\various\Gothenburg\EDDI2011\sas';
proc format cntlout=eddi.sas_Fmts;
    /* Labels for Group */
value ExpGroup
    0="Control" 1="Treatment";
    /* labels for Gender */
value GENDERen
    1="Male" 2="Female";
value GENDERde
    1="Männlich" 2="Weiblich";
value GenderL
    1="Self Identified Male" 2="Self Identified Female";
    /* Labels for GenderChar */
value $GenderSt
    'm'="Male" 'f'="Female";
value misslbl .R='Refused' .D='Don't know';

    /* labels for IDFormatted */
value IDtoGrp 1,2,3, 7="Treatment" 4,5,6, 8="Control";

    /* BMI Categories from */
    /* http://apps.who.int/bmi/index.jsp?introPage=intro_3.html */
value BMIa low -&lt; 18.5 = 'Underweight'
    18.5 -&lt; 25 = 'Normal'
    25 -&lt; 30 = 'Overweight'
    30 - high = 'Obese';
    /* Note that these form a hierarchy */
value BMIb low -&lt; 16 = 'Severe thinness'
    16 -&lt; 17 = 'Moderate thinness'
    17 -&lt; 18.5 = 'Mild thinness'
    18.5 -&lt; 25 = 'Normal'
    25 -&lt; 30 = 'Pre-obese'
    30 -&lt; 35 = 'Obese Class I'
    35 -&lt; 40 = 'Obese Class II'
    40 - high = 'Obese Class III';
run;

data eddi.SASdata(LABEL='SAS Dataset for EDDI2011 - Imaginary people born in the 1940's ');
infile datalines truncover ;
length ID 8 Weight 8 DOB 8 DTOB 8 GenderChar $ 1 Gender 8 Group 8 Measure 8 Fee 8 BMI 8 Comment $ 244;
label ID="Identifier";
label Weight='Case weight';
label DOB="Date of Birth";
label DTOB="Date-Time of Birth";
label GenderChar="GenderMF";
label Gender="Gender";
label Group="Treatment Group";
label Measure="Dependent Measure";
label Fee="Fee in Euros";
label BMI="Body Mass Index";
label Comment="Unstructured comment about this observation";

input ID Weight DOB :date9. DTOB :datetime19. GenderChar Gender Group Measure Fee BMI Comment &amp;$char244.;
IDFormatted=ID;
format IDFormatted IDtoGrp.;
format DOB date9. DTOB datetime19.;

```

```
format Group ExpGroup. Gender GENDERen. GenderChar $GenderSt.;
format Measure misslbl.;
format fee EURO6.2;
format BMI BMlb.;
```

```
datalines;
```

```
1 1 07jun1944 07jun1944:02:14:27 m 1 1 197.5 11.11 15 This is a comment. There are several sentences. Case one.
2 1 05apr1949 05apr1950:15:23:45 f 2 1 188.6 12.12 17 This is a comment. There are several sentences. Case two.
3 1 29feb1948 29feb1948:23:59:59 m 1 1 201.4 13.13 22 This is a comment. There are several sentences. Case three.
4 1 13jan1948 13jan1948:01:02:03 m 1 0 222.2 14.14 27 This is a comment. There are several sentences. Case four.
5 1 09may1949 09may1950:16:20:30 f 2 0 196.2 15.15 33 This is a comment. There are several sentences. Case five.
6 1 22aug1944 22aug1944:07:30:00 m 1 0 .R 16.16 37 This is a comment. There are several sentences. Case six. Subject declined to answer
measure.
7 2 14feb1943 14feb1943:14:14:14 f 2 1 .D 17.17 44 This is a comment. There are several sentences. Case seven. Subject could not answer
measure.
8 2 22nov1944 22nov1944:09:09:00 m 1 0 170.7 18.18 23.8 This is a comment. There are several sentences. Case eight. Subject declined to answer
measure.
;
```

```
run;
```

```
Proc SQL;
```

```
alter table eddi.SASdata
  add constraint IDKey Primary Key(ID)MESSAGE='ID must be unique and not missing' MSGTYPE=NEWLINE
  add constraint DOBrange CHECK(DOB GE '01jan1940'd AND DOB LE '31Dec1949'd) MESSAGE='DOB must be between 1Jan1940 and 31Dec1949'
MSGTYPE=NEWLINE
  add constraint DTOBrange CHECK(DTOB GE '01jan1940:00:00:00'dt AND DTOB LE '31Dec1949:23:59:59'd) MESSAGE='DTOB must be between
1Jan1940 and 31Dec1949' MSGTYPE=NEWLINE
  add constraint CaseWeight Not Null(Weight)MESSAGE='Weight must not be missing' MSGTYPE=NEWLINE;
```

```
describe table eddi.SASdata;
```

```
quit;
```

```
</pre>
```

```
</r:Description>
```

```
<l:DataRelationship id="3a06c489-2197-4564-ae2c-3fd2c5a2438d" version="1.0.0" versionDate="2011-10-26T13:33:00">
```

```
<r:UserID type="11179-IRDI">example.org:3a06c489-2197-4564-ae2c-3fd2c5a2438d:1</r:UserID>
```

```
<l:DataRelationshipName xml:lang="en-US">EDDI2011</l:DataRelationshipName>
```

```
<l:LogicalRecord hasLocator="false" id="00b3208d-526c-46ac-9cb9-83f859852fc0">
```

```
<r:UserID type="11179-IRDI">example.org:00b3208d-526c-46ac-9cb9-83f859852fc0:1</r:UserID>
```

```
<l:LogicalRecordName xml:lang="en-US">EDDI2011</l:LogicalRecordName>
```

```
<l:VariablesInRecord allVariablesInLogicalProduct="false">
```

```
<l:VariableSchemeReference>
```

```
<r:ID>ee41e75c-2cad-48d4-9760-ba2f64cbec62</r:ID>
```

```
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
```

```
<r:Version>1</r:Version>
```

```
</l:VariableSchemeReference>
```

```
</l:VariablesInRecord>
```

```
</l:LogicalRecord>
```

```
</l:DataRelationship>
```

```
<r:Note type="Comment" id="76363dad-6c93-4362-bdba-05da49b124d0">
```

```
<r:Relationship>
```

```
<r:RelatedToReference>
```

```
<r:ID>406ebe6d-db28-4e2b-9c97-a11a1e4903a4</r:ID>
```

```
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
```

```
<r:Version>1.0.0</r:Version>
```

```
</r:RelatedToReference>
```

```
</r:Relationship>
<r:Content>NOTE: Universe for data is People born between 1940 and 1949</r:Content>
</r>Note>
<r>Note type="Processing" id="76363dad-6c93-4362-bdba-05da49b124d0">
<r:Relationship>
<r:RelatedToReference>
<r:ID>406e6be6d-db28-4e2b-9c97-a11a1e4903a4</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1.0.0</r:Version>
</r:RelatedToReference>
</r:Relationship>
<r:Content>NOTE: Dataset creation began 2011Oct19 </r:Content>
</r>Note>
<r>Note type="Footnote" id="67c6427c-0b4a-437b-8cdd-2c457415dd9e">
<r:Relationship>
<r:RelatedToReference>
<r:Scheme>
<r:ID>b2c91c69-f10f-4ba7-81e3-4ff64bbd1e98</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1.0.0</r:Version>
</r:Scheme>
<r:ID>4e4cce64-1b0d-44a4-9540-2c1dce51f9bb</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1.0.0</r:Version>
</r:RelatedToReference>
</r:Relationship>
<r:Content>Note that for the color of GenderMF pink and blue are traditional values in some cultures</r:Content>
</r>Note>
</l:LogicalProduct>
</g:LogicalProduct>
<g:PhysicalDataProduct>
<p:PhysicalDataProduct id="d2e39d9c-7380-4de5-a220-8e85607df5c2" version="1.0.0" versionDate="2011-10-26T13:33:00"
agency="example.org">
<p:PhysicalDataProductName xml:lang="en-US">EDDI2011</p:PhysicalDataProductName>
<p:PhysicalStructureScheme id="46eccc79-6515-486f-88f3-31fef641b10f" version="1.0.0" versionDate="2011-10-26T13:33:00"
agency="example.org">
<p:PhysicalStructure id="023b9545-8cfd-4b01-aa40-74152c6055c3" version="1.0.0" versionDate="2011-10-26T13:33:00">
<r:UserID type="11179-IRDI">example.org:023b9545-8cfd-4b01-aa40-74152c6055c3:1</r:UserID>
<!--Following section not strictly necessary-->
<p:LogicalProductReference>
<r:ID>9e4ec785-cbf6-4de1-adb5-6e91e3decc5f</r:ID>
<r:IdentifyingAgency>NotNeeded</r:IdentifyingAgency>
<r:Version>0</r:Version>
</p:LogicalProductReference>
<p:Format>Delimited</p:Format>
<p:DefaultDelimiter>,</p:DefaultDelimiter>
<p:GrossRecordStructure id="33b465e6-d7c9-4db1-be3f-12cdec2f0a6a">
<p:LogicalRecordReference>
<r:ID>52868fe8-9760-4d46-9052-fb81f89cc9e8</r:ID>
<r:IdentifyingAgency>NotNeeded</r:IdentifyingAgency>
<r:Version>1</r:Version>
</p:LogicalRecordReference>
<p:PhysicalRecordSegment id="b6b7d9c0-7a91-4781-b435-561c8bf50c3a"/>
</p:GrossRecordStructure>
</p:PhysicalStructure>
</p:PhysicalStructureScheme>
```

<p:RecordLayoutScheme id="a35db5aa-8ea6-4fc0-a12e-6028a9cde7d4" version="1.0.0" versionDate="2011-10-26T13:33:00" agency="example.org">
<p:RecordLayout id="4a7f7d57-1638-4be7-9da8-e4a6251bf409" version="1.0.0" versionDate="2011-10-26T13:33:00" namesOnFirstRow="false">
<r:UserID type="11179-IRDI">example.org:4a7f7d57-1638-4be7-9da8-e4a6251bf409:1</r:UserID>
<p:PhysicalStructureReference>
<r:ID>ef924e9b-d777-4ee3-bc90-d5cee21a74c0</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
<!--Following section not strictly necessary-->
<p:PhysicalRecordSegmentUsed>NotRequired</p:PhysicalRecordSegmentUsed>
</p:PhysicalStructureReference>
<p:CharacterSet>UTF-8</p:CharacterSet>
<p:ArrayBase>0</p:ArrayBase>
<p:DataItem>
<p:VariableReference>
<r:ID>3fd9887d-d965-4e78-932a-2fbdb30ecdb8</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</p:VariableReference>
<p:PhysicalLocation>
<p:StorageFormat>integer</p:StorageFormat>
<p:ArrayPosition>0</p:ArrayPosition>
</p:PhysicalLocation>
</p:DataItem>
<p:DataItem>
<p:VariableReference>
<r:ID>228c2e7d-0fb7-4744-836f-3aeaf072954e</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</p:VariableReference>
<p:PhysicalLocation>
<p:StorageFormat>integer</p:StorageFormat>
<p:ArrayPosition>1</p:ArrayPosition>
</p:PhysicalLocation>
</p:DataItem>
<p:DataItem>
<p:VariableReference>
<r:ID>e637954e-2fe8-42ef-ad8d-f11d163a9d74</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</p:VariableReference>
<p:PhysicalLocation>
<p:StorageFormat>integer</p:StorageFormat>
<p:ArrayPosition>2</p:ArrayPosition>
</p:PhysicalLocation>
</p:DataItem>
<p:DataItem>
<p:VariableReference>
<r:ID>16b2de03-3a1b-4113-ba96-80b358d506e0</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</p:VariableReference>
<p:PhysicalLocation>
<p:StorageFormat>integer</p:StorageFormat>
<p:ArrayPosition>3</p:ArrayPosition>
</p:PhysicalLocation>

</p:DataItem>
<p:DataItem>
<p:VariableReference>
<r:ID>4e4cce64-1b0d-44a4-9540-2c1dce51f9bb</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</p:VariableReference>
<p:PhysicalLocation>
<p:StorageFormat>string</p:StorageFormat>
<p:ArrayPosition>4</p:ArrayPosition>
</p:PhysicalLocation>
</p:DataItem>
<p:DataItem>
<p:VariableReference>
<r:ID>86fcfee9-f03b-46ee-a292-250c117154ac</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</p:VariableReference>
<p:PhysicalLocation>
<p:StorageFormat>integer</p:StorageFormat>
<p:ArrayPosition>5</p:ArrayPosition>
</p:PhysicalLocation>
</p:DataItem>
<p:DataItem>
<p:VariableReference>
<r:ID>8056fe5b-d8fe-4385-820c-57d0cbe1ca0d</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</p:VariableReference>
<p:PhysicalLocation>
<p:StorageFormat>integer</p:StorageFormat>
<p:ArrayPosition>6</p:ArrayPosition>
</p:PhysicalLocation>
</p:DataItem>
<p:DataItem>
<p:VariableReference>
<r:ID>9fed70df-8a4a-4f18-a5a0-fe8eadc1ff54</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</p:VariableReference>
<p:PhysicalLocation>
<p:StorageFormat>integer</p:StorageFormat>
<p:ArrayPosition>7</p:ArrayPosition>
</p:PhysicalLocation>
</p:DataItem>
<p:DataItem>
<p:VariableReference>
<r:ID>034b2ac2-3c5e-49c5-ae57-bc5b445987c2</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</p:VariableReference>
<p:PhysicalLocation>
<p:StorageFormat>integer</p:StorageFormat>
<p:ArrayPosition>8</p:ArrayPosition>
</p:PhysicalLocation>
</p:DataItem>
<p:DataItem>


```
<p:VariableReference>
<r:ID>8635b701-bda1-41af-800e-48899747b265</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</p:VariableReference>
<p:PhysicalLocation>
<p:StorageFormat>integer</p:StorageFormat>
<p:ArrayPosition>9</p:ArrayPosition>
</p:PhysicalLocation>
</p:Dataltem>
<p:Dataltem>
<p:VariableReference>
<r:ID>db4da641-302e-44ca-969d-e86dba1a2b96</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</p:VariableReference>
<p:PhysicalLocation>
<p:StorageFormat>integer</p:StorageFormat>
<p:ArrayPosition>10</p:ArrayPosition>
</p:PhysicalLocation>
</p:Dataltem>
<p:Dataltem>
<p:VariableReference>
<r:ID>5b807131-c255-445a-bb2f-79029ec0daf1</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</p:VariableReference>
<p:PhysicalLocation>
<p:StorageFormat>string</p:StorageFormat>
<p:ArrayPosition>11</p:ArrayPosition>
</p:PhysicalLocation>
</p:Dataltem>
<p:Dataltem>
<p:VariableReference>
<r:ID>27ae4d59-05a9-451c-8aaa-ffa3e73ef25e</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</p:VariableReference>
<p:PhysicalLocation>
<p:StorageFormat>integer</p:StorageFormat>
<p:ArrayPosition>12</p:ArrayPosition>
</p:PhysicalLocation>
</p:Dataltem>
</p:RecordLayout>
</p:RecordLayoutScheme>
</p:PhysicalDataProduct>
</g:PhysicalDataProduct>
<pi:PhysicalInstance id="4e4c7508-1395-4646-ac56-73e8d3937b43" version="1.0.0" versionDate="2011-10-26T13:33:00" agency="example.org">
<r:Citation>
<r:title xml:lang="en-US">EDD2011 DDI Example</r:title>
<dc:DCElements>
<dc2:title xml:lang="en-US">EDD2011 DDI Example</dc2:title>
</dc:DCElements>
</r:Citation>
<pi:RecordLayoutReference>
<r:ID>4a7f7d57-1638-4be7-9da8-e4a6251bf409</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
```

```
<r:Version>1</r:Version>
</pi:RecordLayoutReference>
<pi:DataFileIdentification id="0daf78de-723f-4d0d-913f-1ca7955dafd1">
  <pi:Location>EDDI2011</pi:Location>
  <pi:URI isPublic="false">C:/DDrive/projects/various/Gothenburg/EDDI2011/StatTransfer/FromDDI31/DDI_AllFeatures_v3.dat</pi:URI>
</pi:DataFileIdentification>
</pi:PhysicalInstance>

<c:ConceptScheme id="35a8fd51-f61b-47e9-8e85-28c36dc36e" version="1.0.0" agency="example.org">
  <c:ConceptSchemeName>Concepts for EDDI 2011 Example</c:ConceptSchemeName>
  <c:Concept id="6404ef48-f04f-4b9e-9ea5-b3e6d4517da4" version="1.0.0" >
    <c:ConceptName>Self Identified Gender</c:ConceptName>
    <r:Description>Gender used by respondent for self-description</r:Description>
  </c:Concept>
</c:ConceptScheme>

<c:UniverseScheme id="11059e5c-3b56-4b83-a5ab-0654a3554863" agency="example.org" version="1.0.0" versionDate="2011-10-26T13:33:00">
  <c:UniverseSchemeName>Universes for EDDI 2011 example</c:UniverseSchemeName>
  <c:Universe id="ff4994d7-7606-475e-8a63-2da31dff29ea" version="1.0.0" versionDate="2011-10-26T13:33:00">
    <c:UniverseName>Persons Born 1940-1949</c:UniverseName>
    <r:Label>Persons Born Between 1940 and 1949 Inclusive</r:Label>
    <c:HumanReadable>Persons Born Between the years of 1940 and 1949 Inclusive</c:HumanReadable>
  </c:Universe>
</c:UniverseScheme>

<l:CategoryScheme id="88f56365-b10c-4ef7-8aa5-60327fe3cd2d" version="1.0.0" versionDate="2011-10-26T13:33:00" agency="example.org">
  <l:CategorySchemeName xml:lang="en-US">GENDERST</l:CategorySchemeName>
  <l:Category id="dadf2ced-27bd-44f2-8a73-c5a5044581a9" version="1.0.0" versionDate="2011-10-26T13:33:00" missing="false">
    <r:UserID type="11179-IRDI">example.org:dadf2ced-27bd-44f2-8a73-c5a5044581a9:1</r:UserID>
    <r:Label xml:lang="en-US">Female</r:Label>
  </l:Category>
  <l:Category id="0341f0b9-c9cf-490b-a2a6-a7ab52781763" version="1.0.0" versionDate="2011-10-26T13:33:00" missing="false">
    <r:UserID type="11179-IRDI">example.org:0341f0b9-c9cf-490b-a2a6-a7ab52781763:1</r:UserID>
    <r:Label xml:lang="en-US">Male</r:Label>
  </l:Category>
</l:CategoryScheme>

<l:CategoryScheme id="832035cb-67c4-4c94-98d0-6afa74a3f49e" version="1.0.0" versionDate="2011-10-26T13:33:00" agency="example.org">
  <l:CategorySchemeName xml:lang="en-US">GENDER</l:CategorySchemeName>
  <l:Category id="317b80be-0cdb-4184-a369-70d10115f2f6" version="1.0.0" versionDate="2011-10-26T13:33:00" missing="false">
    <r:UserID type="11179-IRDI">example.org:317b80be-0cdb-4184-a369-70d10115f2f6:1</r:UserID>
    <r:Label xml:lang="de" type="GENDERde">männlich</r:Label>
    <r:Label xml:lang="en-US" type="GENDERL">Self Identified Male</r:Label>
    <r:Label xml:lang="en-US" type="GENDERen">male</r:Label>
  </l:Category>
  <l:Category id="180136e9-6064-4eea-8ddf-1cd28f20b911" version="1.0.0" versionDate="2011-10-26T13:33:00" missing="false">
    <r:UserID type="11179-IRDI">example.org:180136e9-6064-4eea-8ddf-1cd28f20b911:1</r:UserID>
    <r:Label xml:lang="de" type="GENDERde">weiblich</r:Label>
    <r:Label xml:lang="en-US" type="GENDERL">Self Identified Female</r:Label>
    <r:Label xml:lang="en-US" type="GENDERen">female</r:Label>
  </l:Category>
</l:CategoryScheme>

<l:CategoryScheme id="c609b4ed-9d5c-4648-ab5a-1f01ee4706be" version="1.0.0" versionDate="2011-10-26T13:33:00" agency="example.org">
  <l:CategorySchemeName xml:lang="en-US">EXPGROUP</l:CategorySchemeName>
  <l:Category id="eb1f9ce0-c5fb-475e-87f0-975910360d82" version="1.0.0" versionDate="2011-10-26T13:33:00" missing="false">
    <r:UserID type="11179-IRDI">example.org:eb1f9ce0-c5fb-475e-87f0-975910360d82:1</r:UserID>
    <r:Label xml:lang="en-US">Control</r:Label>
  </l:Category>
  <l:Category id="90c1ce92-de44-446d-b645-7cec16b6ec27" version="1.0.0" versionDate="2011-10-26T13:33:00" missing="false">
```

```
<r:UserID type="11179-IRDI">example.org:90c1ce92-de44-446d-b645-7cec16b6ec27:1</r:UserID>
<r:Label xml:lang="en-US">Treatment</r:Label>
</l:Category>
</l:CategoryScheme>
<l:CategoryScheme id="b7ff9ffe-277e-4edc-a8df-25594d014082" version="1.0.0" versionDate="2011-10-26T13:33:00" agency="example.org">
<l:CategorySchemeName xml:lang="en-US">IDTOGRP</l:CategorySchemeName>
<l:Category id="af27c069-ce30-4985-ace9-49b2930d3888" version="1.0.0" versionDate="2011-10-26T13:33:00" missing="false">
<r:UserID type="11179-IRDI">example.org:af27c069-ce30-4985-ace9-49b2930d3888:1</r:UserID>
<r:Label xml:lang="en-US">Treatment</r:Label>
</l:Category>
<l:Category id="00c0ddc1-eeefc-4326-93f8-adcd8f141458" version="1.0.0" versionDate="2011-10-26T13:33:00" missing="false">
<r:UserID type="11179-IRDI">example.org:00c0ddc1-eeefc-4326-93f8-adcd8f141458:1</r:UserID>
<r:Label xml:lang="en-US">Control</r:Label>
</l:Category>
</l:CategoryScheme>
<l:CategoryScheme id="927f95fd-f23f-493b-ae2d-f8eaf7303d8a" version="1.0.0" versionDate="2011-10-27T10:43:26" agency="example.org">
<l:CategorySchemeName xml:lang="en-US">MeasureMissing</l:CategorySchemeName>
<l:Category id="d4710a1e-4a0e-4fbc-8f79-1a7b7951924b" version="1.0.0" versionDate="2011-10-27T10:43:26" missing="false">
<r:UserID type="11179-IRDI">example.org:d4710a1e-4a0e-4fbc-8f79-1a7b7951924b:1</r:UserID>
<r:Label xml:lang="en-US">valid</r:Label>
</l:Category>
<l:Category id="78b1e779-7dd2-43e8-865a-cacf4e2f6ae0" version="1.0.0" versionDate="2011-10-27T10:43:26" missing="false">
<r:UserID type="11179-IRDI">example.org:78b1e779-7dd2-43e8-865a-cacf4e2f6ae0:1</r:UserID>
<r:Label xml:lang="en-US">Refused</r:Label>
</l:Category>
<l:Category id="625fed12-1e18-4fe3-80c1-1a34a9a53688" version="1.0.0" versionDate="2011-10-27T10:43:26" missing="false">
<r:UserID type="11179-IRDI">example.org:625fed12-1e18-4fe3-80c1-1a34a9a53688:1</r:UserID>
<r:Label xml:lang="en-US">Don't Know</r:Label>
</l:Category>
</l:CategoryScheme>
<l:CategoryScheme id="e6f5c6b0-4b7b-4d56-90f5-9ae2c0feb7e0" version="1.0.0" versionDate="2011-10-31T10:43:26" agency="example.org">
<l:CategorySchemeName xml:lang="en-US">BMIA</l:CategorySchemeName>
<l:Category id="6d88fc62-2dd1-48ef-a8a6-8e61c7490694" version="1.0.0" versionDate="2011-10-31T10:43:26" missing="false">
<r:UserID type="11179-IRDI">example.org:6d88fc62-2dd1-48ef-a8a6-8e61c7490694:1</r:UserID>
<r:Label xml:lang="en-US">under 18.5 - Underweight</r:Label>
</l:Category>
<l:Category id="f1dd2540-ec92-4b4b-84e2-fc09df6bac61" version="1.0.0" versionDate="2011-10-31T10:43:26" missing="false">
<r:UserID type="11179-IRDI">example.org:f1dd2540-ec92-4b4b-84e2-fc09df6bac61:1</r:UserID>
<r:Label xml:lang="en-US">18.5 to under 25 - Normal</r:Label>
</l:Category>
<l:Category id="b301e0f9-c10a-457b-9678-f9cf4c20ce58" version="1.0.0" versionDate="2011-10-31T10:43:26" missing="false">
<r:UserID type="11179-IRDI">example.org:b301e0f9-c10a-457b-9678-f9cf4c20ce58:1</r:UserID>
<r:Label xml:lang="en-US">25 to under 30 - Overweight</r:Label>
</l:Category>
<l:Category id="a11fc212-eab0-4fbc-958f-c258890a6fe4" version="1.0.0" versionDate="2011-10-31T10:43:26" missing="false">
<r:UserID type="11179-IRDI">example.org:a11fc212-eab0-4fbc-958f-c258890a6fe4:1</r:UserID>
<r:Label xml:lang="en-US">30 and over - Obese</r:Label>
</l:Category>
</l:CategoryScheme>
<l:CategoryScheme id="b8c79e8d-c2be-4bb9-a409-b6dff1f82694" version="1.0.0" versionDate="2011-10-28T09:44:17" agency="example.org">
<l:CategorySchemeName xml:lang="en-US">BMIB</l:CategorySchemeName>
<l:Category id="2d16843b-39cd-4739-b1b1-5a74e9ed61e1" version="1.0.0" versionDate="2011-10-28T09:44:17" missing="false">
<r:UserID type="11179-IRDI">example.org:2d16843b-39cd-4739-b1b1-5a74e9ed61e1:1</r:UserID>
<r:Label xml:lang="en-US">Under 16 - Severe thinness</r:Label>
</l:Category>
<l:Category id="bd0774b1-9d33-428c-90df-1daf1d09e2af" version="1.0.0" versionDate="2011-10-28T09:44:17" missing="false">
```

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<r:UserID type="11179-IRDI">example.org:bd0774b1-9d33-428c-90df-1daf1d09e2af:1</r:UserID>
<r:Label xml:lang="en-US">16 to under 17 - Moderate thinness</r:Label>
</l:Category>
<l:Category id="5cad708e-abb2-40ce-81c2-e5a6a2414023" version="1.0.0" versionDate="2011-10-28T09:44:17" missing="false">
<r:UserID type="11179-IRDI">example.org:5cad708e-abb2-40ce-81c2-e5a6a2414023:1</r:UserID>
<r:Label xml:lang="en-US">17 to under 18.5 - Mild thinness</r:Label>
</l:Category>
<l:Category id="148a3dac-a348-475a-a317-4af84cf659c9" version="1.0.0" versionDate="2011-10-28T09:44:17" missing="false">
<r:UserID type="11179-IRDI">example.org:148a3dac-a348-475a-a317-4af84cf659c9:1</r:UserID>
<r:Label xml:lang="en-US">18.5 to under 25 - Normal</r:Label>
</l:Category>
<l:Category id="aaa36e2e-b39e-4051-a6e5-2d9a7727c6be" version="1.0.0" versionDate="2011-10-28T09:44:17" missing="false">
<r:UserID type="11179-IRDI">example.org:aaa36e2e-b39e-4051-a6e5-2d9a7727c6be:1</r:UserID>
<r:Label xml:lang="en-US">25 to under 30 - Pre-obese</r:Label>
</l:Category>
<l:Category id="693b899f-9b88-4b8d-b8de-ce2657a1e50a" version="1.0.0" versionDate="2011-10-28T09:44:17" missing="false">
<r:UserID type="11179-IRDI">example.org:693b899f-9b88-4b8d-b8de-ce2657a1e50a:1</r:UserID>
<r:Label xml:lang="en-US">30 to under 35 - Obese Class I</r:Label>
</l:Category>
<l:Category id="951b53d5-dbbf-44a4-86fd-dd6f2df929f3" version="1.0.0" versionDate="2011-10-28T09:44:17" missing="false">
<r:UserID type="11179-IRDI">example.org:951b53d5-dbbf-44a4-86fd-dd6f2df929f3:1</r:UserID>
<r:Label xml:lang="en-US">35 to under 40 - Obese Class II</r:Label>
</l:Category>
<l:Category id="5912cfdc-c6d7-4ae6-83f1-0de15ff17c58" version="1.0.0" versionDate="2011-10-28T09:44:17" missing="false">
<r:UserID type="11179-IRDI">example.org:5912cfdc-c6d7-4ae6-83f1-0de15ff17c58:1</r:UserID>
<r:Label xml:lang="en-US">40 and over - Obese Class III</r:Label>
</l:Category>
</l:CategoryScheme>
<l:CodeScheme id="5c706c37-d19b-4b8e-ac6d-40094024421f" version="1.0.0" versionDate="2011-10-26T13:33:00" agency="example.org">
<l:CodeSchemeName xml:lang="en-US">GENDERST</l:CodeSchemeName>
<l:Code>
<l:CategoryReference>
<r:ID>dadf2ced-27bd-44f2-8a73-c5a5044581a9</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</l:CategoryReference>
<l:Value>f</l:Value>
</l:Code>
<l:Code>
<l:CategoryReference>
<r:ID>0341f0b9-c9cf-490b-a2a6-a7ab52781763</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</l:CategoryReference>
<l:Value>m</l:Value>
</l:Code>
</l:CodeScheme>
<l:CodeScheme id="88fb9048-23d5-4b66-837c-6be8824eaae" version="1.0.0" versionDate="2011-10-26T13:33:00" agency="example.org">
<l:CodeSchemeName xml:lang="en-US">GENDER</l:CodeSchemeName>
<l:Code>
<l:CategoryReference>
<r:ID>317b80be-0cdb-4184-a369-70d10115f2f6</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</l:CategoryReference>
<l:Value>1</l:Value>
</l:Code>
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<!:Code>
<!:CategoryReference>
  <r:ID>180136e9-6064-4eea-8ddf-1cd28f20b911</r:ID>
  <r:IdentifyingAgency>example.org</r:IdentifyingAgency>
  <r:Version>1</r:Version>
</!:CategoryReference>
<!:Value>2</!:Value>
</!:Code>
</!:CodeScheme>
<!:CodeScheme id="5524bead-3280-46ef-af85-3e926c1822af" version="1.0.0" versionDate="2011-10-26T13:33:00" agency="example.org">
  <!:CodeSchemeName xml:lang="en-US">EXPGROUP</!:CodeSchemeName>
  <!:Code>
    <!:CategoryReference>
      <r:ID>eb1f9ce0-c5fb-475e-87f0-975910360d82</r:ID>
      <r:IdentifyingAgency>example.org</r:IdentifyingAgency>
      <r:Version>1</r:Version>
    </!:CategoryReference>
    <!:Value>0</!:Value>
  </!:Code>
  <!:Code>
    <!:CategoryReference>
      <r:ID>90c1ce92-de44-446d-b645-7cec16b6ec27</r:ID>
      <r:IdentifyingAgency>example.org</r:IdentifyingAgency>
      <r:Version>1</r:Version>
    </!:CategoryReference>
    <!:Value>1</!:Value>
  </!:Code>
</!:CodeScheme>
<!:CodeScheme id="048006cf-0f5b-4aba-8b58-47e03bdbcc56" version="1.0.0" versionDate="2011-10-26T13:33:00" agency="example.org">
  <!:CodeSchemeName xml:lang="en-US">MeasureMissing</!:CodeSchemeName>
  <!:Code>
    <!:CategoryReference>
      <r:ID>d4710a1e-4a0e-4fbe-8f79-1a7b7951924b</r:ID>
      <r:IdentifyingAgency>example.org</r:IdentifyingAgency>
      <r:Version>1</r:Version>
    </!:CategoryReference>
    <!:Value>0</!:Value>
  </!:Code>
  <!:Code>
    <!:CategoryReference>
      <r:ID>78b1e779-7dd2-43e8-865a-cacf4e2f6ae0</r:ID>
      <r:IdentifyingAgency>example.org</r:IdentifyingAgency>
      <r:Version>1</r:Version>
    </!:CategoryReference>
    <!:Value>1</!:Value>
  </!:Code>
  <!:Code>
    <!:CategoryReference>
      <r:ID>625fed12-1e18-4fe3-80c1-1a34a9a53688</r:ID>
      <r:IdentifyingAgency>example.org</r:IdentifyingAgency>
      <r:Version>1</r:Version>
    </!:CategoryReference>
    <!:Value>2</!:Value>
  </!:Code>
</!:CodeScheme>
<!:CodeScheme id="c95a20cf-1eb6-402b-9f8f-f2841b2faac5" version="1.0.0" versionDate="2011-10-26T13:33:00" agency="example.org">
  <!:CodeSchemeName xml:lang="en-US">IDTOGRP</!:CodeSchemeName>
```

```
<l:Code>
<l:CategoryReference>
<r:ID>af27c069-ce30-4985-ace9-49b2930d3888</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</l:CategoryReference>
<l:Value>1</l:Value>
</l:Code>
<l:Code>
<l:CategoryReference>
<r:ID>af27c069-ce30-4985-ace9-49b2930d3888</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</l:CategoryReference>
<l:Value>2</l:Value>
</l:Code>
<l:Code>
<l:CategoryReference>
<r:ID>af27c069-ce30-4985-ace9-49b2930d3888</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</l:CategoryReference>
<l:Value>3</l:Value>
</l:Code>
<l:Code>
<l:CategoryReference>
<r:ID>af27c069-ce30-4985-ace9-49b2930d3888</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</l:CategoryReference>
<l:Value>7</l:Value>
</l:Code>
<l:Code>
<l:CategoryReference>
<r:ID>00c0ddc1-eefc-4326-93f8-adcd8f141458</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</l:CategoryReference>
<l:Value>4</l:Value>
</l:Code>
<l:Code>
<l:CategoryReference>
<r:ID>00c0ddc1-eefc-4326-93f8-adcd8f141458</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</l:CategoryReference>
<l:Value>5</l:Value>
</l:Code>
<l:Code>
<l:CategoryReference>
<r:ID>00c0ddc1-eefc-4326-93f8-adcd8f141458</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</l:CategoryReference>
<l:Value>6</l:Value>
</l:Code>
<l:Code>
```

```
<l:CategoryReference>
  <r:ID>00c0ddc1-eefc-4326-93f8-adcd8f141458</r:ID>
  <r:IdentifyingAgency>example.org</r:IdentifyingAgency>
  <r:Version>1</r:Version>
</l:CategoryReference>
<l:Value>8</l:Value>
</l:Code>
</l:CodeScheme>
<l:VariableScheme id="b2c91c69-f10f-4ba7-81e3-4ff64bbd1e98" version="1.0.0" versionDate="2011-10-26T13:33:00" agency="example.org">
  <l:VariableSchemeName xml:lang="en-US">EDDI2011</l:VariableSchemeName>
  <l:Variable id="3fd9887d-d965-4e78-932a-2fbdb30ecdb8" version="1.0.0" versionDate="2011-10-26T13:33:00">
    <r:UserID type="11179-IRDI">example.org:3fd9887d-d965-4e78-932a-2fbdb30ecdb8:1</r:UserID>
    <l:VariableName xml:lang="en-US">ID</l:VariableName>
    <r:Label xml:lang="en-US">Identifier</r:Label>
    <r:Description>CONSTRAINT: Primary Key</r:Description>
    <r:UniverseReference>
      <r:Scheme>
        <r:ID>11059e5c-3b56-4b83-a5ab-0654a3554863</r:ID>
        <r:IdentifyingAgency>example.org</r:IdentifyingAgency>
        <r:Version>1.0.0</r:Version>
      </r:Scheme>
      <r:ID>ff4994d7-7606-475e-8a63-2da31dff29ea</r:ID>
      <r:IdentifyingAgency>example.org</r:IdentifyingAgency>
      <r:Version>1.0.0</r:Version>
    </r:UniverseReference>
    <l:ResponseUnit/>
    <r:AnalysisUnit/>
    <l:Representation>
      <l:Role>Unique Identifier for observations</l:Role>
      <l:NumericRepresentation blankIsMissingValue="false" type="Short" classificationLevel="Nominal"/>
    </l:Representation>
  </l:Variable>
  <l:Variable id="228c2e7d-0fb7-4744-836f-3aeaf072954e" version="1.0.0" versionDate="2011-10-26T13:33:00" isWeight="true">
    <r:UserID type="11179-IRDI">example.org:228c2e7d-0fb7-4744-836f-3aeaf072954e:1</r:UserID>
    <l:VariableName xml:lang="en-US">Weight</l:VariableName>
    <r:Label xml:lang="en-US">Case Weight</r:Label>
    <r:Description>CONSTRAINT: Not null</r:Description>
    <l:ResponseUnit/>
    <r:AnalysisUnit/>
    <l:Representation>
      <l:Role>case weight</l:Role>
      <l:NumericRepresentation blankIsMissingValue="false" type="Short" classificationLevel="Ratio" scale="1" decimalPositions="0"/>
    </l:Representation>
  </l:Variable>
  <l:Variable id="e637954e-2fe8-42ef-ad8d-f11d163a9d74" version="1.0.0" versionDate="2011-10-26T13:33:00">
    <r:UserID type="11179-IRDI">example.org:e637954e-2fe8-42ef-ad8d-f11d163a9d74:1</r:UserID>
    <l:VariableName xml:lang="en-US">DOB</l:VariableName>
    <r:Label xml:lang="en-US">Date of Birth</r:Label>
    <r:Description>CONSTRAINTwhere: DOB GE '01jan1940'd AND DOB LE '31Dec1949'd</r:Description>
    <l:ResponseUnit/>
    <r:AnalysisUnit/>
    <l:Representation measurementUnit="Date to the day">
      <l:DateTimeRepresentation blankIsMissingValue="true" type="Date"/>
    </l:Representation>
  </l:Variable>
  <l:Variable id="16b2de03-3a1b-4113-ba96-80b358d506e0" version="1.0.0" versionDate="2011-10-26T13:33:00">
    <r:UserID type="11179-IRDI">example.org:16b2de03-3a1b-4113-ba96-80b358d506e0:1</r:UserID>
```

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<l:VariableName xml:lang="en-US">DTOB</l:VariableName>
<r:Label xml:lang="en-US">Date-Time of Birth</r:Label>
<r:Description>CONSTRAINTwhere: DTOB GE '01jan1940:00:00:00'dt AND DTOB LE '31Dec1949:23:59:59'd</r:Description>
<l:ResponseUnit/>
<r:AnalysisUnit/>
<l:Representation measurementUnit="DateTime to the second">
  <l:DateTimeRepresentation blankIsMissingValue="true" type="DateTime"/>
</l:Representation>
</l:Variable>
<l:Variable id="4e4cce64-1b0d-44a4-9540-2c1dce51f9bb" version="1.0.0" versionDate="2011-10-26T13:33:00">
  <r:UserID type="11179-IRD1">example.org:4e4cce64-1b0d-44a4-9540-2c1dce51f9bb:1</r:UserID>
  <l:VariableName xml:lang="en-US">GenderChar</l:VariableName>
  <r:Label xml:lang="en-US">GenderMF</r:Label>
  <r:Description>ValueColors: M = #0000FF (blue), F as #FFC0CB (pink)
  Note: that these are traditional values in some cultures</r:Description>
  <l:ConceptReference>
    <r:Scheme>
      <r:ID>35a8fd51-f61b-47e9-8e85-28c36dcdc36e</r:ID>
      <r:IdentifyingAgency>example.org</r:IdentifyingAgency>
      <r:Version>1.0.0</r:Version>
    </r:Scheme>
    <r:ID>6404ef48-f04f-4b9e-9ea5-b3e6d4517da4</r:ID>
    <r:IdentifyingAgency>example.org</r:IdentifyingAgency>
    <r:Version>1.0.0</r:Version>
  </l:ConceptReference>
  <l:ResponseUnit/>
  <r:AnalysisUnit/>
  <l:Representation>
    <l:CodeRepresentation blankIsMissingValue="true" classificationLevel="Nominal">
      <r:RecommendedDataType>string</r:RecommendedDataType>
      <r:CodeSchemeReference>
        <r:ID>5c706c37-d19b-4b8e-ac6d-40094024421f</r:ID>
        <r:IdentifyingAgency>example.org</r:IdentifyingAgency>
        <r:Version>1</r:Version>
      </r:CodeSchemeReference>
    </l:CodeRepresentation>
  </l:Representation>
</l:Variable>
<l:Variable id="86fcfee9-f03b-46ee-a292-250c117154ac" version="1.0.0" versionDate="2011-10-26T13:33:00">
  <r:UserID type="11179-IRD1">example.org:86fcfee9-f03b-46ee-a292-250c117154ac:1</r:UserID>
  <l:VariableName xml:lang="en-US">Gender</l:VariableName>
  <r:Label xml:lang="en-US">Gender</r:Label>
  <r:Description>Attribute: Concept - Self-identified gender (external reference here)
  Note that this variable can be labeled in multiple ways
  the associated CatagoryScheme has labels in multiple languages and multiple types (short and long) </r:Description>
  <l:ConceptReference>
    <r:Scheme>
      <r:ID>35a8fd51-f61b-47e9-8e85-28c36dcdc36e</r:ID>
      <r:IdentifyingAgency>example.org</r:IdentifyingAgency>
      <r:Version>1.0.0</r:Version>
    </r:Scheme>
    <r:ID>6404ef48-f04f-4b9e-9ea5-b3e6d4517da4</r:ID>
    <r:IdentifyingAgency>example.org</r:IdentifyingAgency>
    <r:Version>1.0.0</r:Version>
  </l:ConceptReference>
  <l:ResponseUnit/>
  <r:AnalysisUnit/>

```



```

<l:Representation>
<l:CodeRepresentation blankIsMissingValue="true" classificationLevel="Nominal">
  <r:CodeSchemeReference>
    <r:ID>88fb9048-23d5-4b66-837c-6be8824eaeae</r:ID>
    <r:IdentifyingAgency>example.org</r:IdentifyingAgency>
    <r:Version>1</r:Version>
  </r:CodeSchemeReference>
</l:CodeRepresentation>
</l:Representation>
</l:Variable>
<l:Variable id="8056fe5b-d8fe-4385-820c-57d0cbe1ca0d" version="1.0.0" versionDate="2011-10-26T13:33:00">
  <r:UserID type="11179-IRDI">example.org:8056fe5b-d8fe-4385-820c-57d0cbe1ca0d:1</r:UserID>
  <l:VariableName xml:lang="en-US">Group</l:VariableName>
  <r:Label xml:lang="en-US">Treatment Group</r:Label>
  <l:ResponseUnit/>
  <r:AnalysisUnit/>
</l:Representation>
<l:CodeRepresentation blankIsMissingValue="true" classificationLevel="Nominal">
  <r:CodeSchemeReference>
    <r:ID>5524bead-3280-46ef-af85-3e926c1822af</r:ID>
    <r:IdentifyingAgency>example.org</r:IdentifyingAgency>
    <r:Version>1</r:Version>
  </r:CodeSchemeReference>
</l:CodeRepresentation>
</l:Representation>
</l:Variable>
<l:Variable id="9fed70df-8a4a-4f18-a5a0-fe8eadc1ff54" version="1.0.0" versionDate="2011-10-26T13:33:00">
  <r:UserID type="11179-IRDI">example.org:9fed70df-8a4a-4f18-a5a0-fe8eadc1ff54:1</r:UserID>
  <l:VariableName xml:lang="en-US">Measure</l:VariableName>
  <r:Label xml:lang="en-US">Dependent Measure</r:Label>
  <r:Description>Measure was created with two distinct system-missing values
  as labeled by the SAS format misslbl:
  value misslbl .R='Refused' .D='Don't know'
  the ".R." missing value is used when respondents declined to give a value for measure
  the ".D." missing value is used when the respondents did not know a value for measure
</r:Description>
  <r:UniverseReference>
    <r:Scheme>
      <r:ID>11059e5c-3b56-4b83-a5ab-0654a3554863</r:ID>
      <r:IdentifyingAgency>example.org</r:IdentifyingAgency>
      <r:Version>1.0.0</r:Version>
    </r:Scheme>
    <r:ID>ff4994d7-7606-475e-8a63-2da31dff29ea</r:ID>
    <r:IdentifyingAgency>example.org</r:IdentifyingAgency>
    <r:Version>1.0.0</r:Version>
  </r:UniverseReference>
  <l:ResponseUnit/>
  <r:AnalysisUnit>
    Persons
  </r:AnalysisUnit>
  <l:Representation measurementUnit="ribiframs per second">
    <l:Role>Target</l:Role>
    <l:WeightVariableReference>
      <r:Scheme>
        <r:ID>b2c91c69-f10f-4ba7-81e3-4ff64bbd1e98</r:ID>
        <r:IdentifyingAgency>example.org</r:IdentifyingAgency>
        <r:Version>1.0.0</r:Version>
      </r:Scheme>
    </l:WeightVariableReference>
  </l:Representation>
</l:Variable>

```

```

</r:Scheme>
<r:ID>228c2e7d-0fb7-4744-836f-3aeaf072954e</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1.0.0</r:Version>
</l:WeightVariableReference>
<l:NumericRepresentation blankIsMissingValue="true" type="Double" classificationLevel="Ratio" decimalPositions="1" scale="2">
</l:NumericRepresentation>
</l:Representation>
</l:Variable>
<l:Variable id="034b2ac2-3c5e-49c5-ae57-bc5b445987c2" version="1.0.0" versionDate="2011-10-26T13:33:00">
<r:UserID type="11179-IRDI">example.org:034b2ac2-3c5e-49c5-ae57-bc5b445987c2:1</r:UserID>
<l:VariableName xml:lang="en-US">MeasureMissing</l:VariableName>
<r:Label>Missing Flag for Measure</r:Label>
<r:Description>Indicates the type of missing value for the variable Measure.
A separate variable to avoid incompatibilities among software packages in the way missing is represented -
as multiple distinct system missing (e.g. .R in SAS and Stata)
or as a designated otherwise valid values (e.g 999 specified as missing for a variable in SPSS) </r:Description>
<l:ResponseUnit/>
<r:AnalysisUnit/>
<l:Representation>
<l:CodeRepresentation blankIsMissingValue="true" classificationLevel="Nominal">
<r:CodeSchemeReference>
<r:ID>048006cf-0f5b-4aba-8b58-47e03bdbcc56</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</r:CodeSchemeReference>
</l:CodeRepresentation>
</l:Representation>
</l:Variable>

<l:Variable id="8635b701-bda1-41af-800e-48899747b265" version="1.0.0" versionDate="2011-10-28T15:24:30">
<r:UserID type="11179-IRDI">example.org:8635b701-bda1-41af-800e-48899747b265:1</r:UserID>
<l:VariableName xml:lang="en-US">Fee</l:VariableName>
<r:Label xml:lang="en-US">Fee in Euros</r:Label>
<l:ResponseUnit/>
<r:AnalysisUnit>
Persons
</r:AnalysisUnit>
<l:Representation measurementUnit="Currency in Euros">
<l:NumericRepresentation blankIsMissingValue="true" type="Double" decimalPositions="2" classificationLevel="Ratio">
<r:GenericOutputFormat>Should be displayed preceded by the Euro Symbol € and with two digits to the right of the decimal symbol.
Alternate option - US - commas separate sets of three digits and period (decimal point) separates the rightmost two digits.
Alternate option - Some European Countries - period separates sets of three digits and comma separates the rightmost two digits
Example - SAS format EURO. or EUORX.</r:GenericOutputFormat>
</l:NumericRepresentation>
</l:Representation>
</l:Variable>

<l:Variable id="db4da641-302e-44ca-969d-e86dba1a2b96" version="1.0.0" versionDate="2011-10-26T13:33:00">
<r:UserID type="11179-IRDI">example.org:db4da641-302e-44ca-969d-e86dba1a2b96:1</r:UserID>
<l:VariableName xml:lang="en-US">BMI</l:VariableName>
<r:Label xml:lang="en-US">Body Mass Index</r:Label>
<r:Description>BMI is height in meters divided by the square of weight in kg. Categories for ranges of BMI scores can be found at teh WHO site:
http://apps.who.int/bmi/index.jsp?introPage=intro\_3.html </r:Description>
<l:ResponseUnit/>
<r:AnalysisUnit/>
<l:Representation measurementUnit="weight in kilograms per squared height in meters">

```

```

<l:CodingInstructionsReference>
<r:ID>cc696d19-237e-4c1a-ade2-b8367ffe54af</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1.0.0</r:Version>
</l:CodingInstructionsReference>
<l:NumericRepresentation blankIsMissingValue="true" type="Double" classificationLevel="Ratio" decimalPositions="3" >
<r:GenericOutputFormat>
/* BMI Categories from */
/* http://apps.who.int/bmi/index.jsp?introPage=intro_3.html */
/* expressed as SAS formats */
PROC Format;
value BMIa low - &lt; 18.5 = 'Underweight'
18.5 - &lt; 25 = 'Normal'
25 - &lt; 30 = 'Overweight'
30 - high = 'Obese';
run;
/* Note that these form a hierarchy */
value BMIb low - &lt; 16 = 'Severe thinness'
16 - &lt; 17 = 'Moderate thinness'
17 - &lt; 18.5 = 'Mild thinness'
18.5 - &lt; 25 = 'Normal'
25 - &lt; 30 = 'Pre-obese'
30 - &lt; 35 = 'Obese Class I'
35 - &lt; 40 = 'Obese Class II'
40 - high = 'Obese Class III';
run;
</r:GenericOutputFormat>
<r:NumberRange><r:Low>0</r:Low><r:High included="false">16</r:High></r:NumberRange>
<r:NumberRange><r:Low>16</r:Low><r:High included="false">117</r:High></r:NumberRange>
<r:NumberRange><r:Low>17</r:Low><r:High included="false">18.5</r:High></r:NumberRange>
<r:NumberRange><r:Low>18.5</r:Low><r:High included="false">25</r:High></r:NumberRange>
<r:NumberRange><r:Low>25</r:Low><r:High included="false">30</r:High></r:NumberRange>
<r:NumberRange><r:Low>30</r:Low><r:High included="false">35</r:High></r:NumberRange>
<r:NumberRange><r:Low>35</r:Low><r:High included="false">40</r:High></r:NumberRange>
<r:NumberRange><r:Low>40</r:Low><r:High included="false">250</r:High></r:NumberRange>
</l:NumericRepresentation>
</l:Representation>
</l:Variable>
<l:Variable id="5b807131-c255-445a-bb2f-79029ec0daf1" version="1.0.0" versionDate="2011-10-26T13:33:00">
<r:UserID type="11179-IRD1">example.org:5b807131-c255-445a-bb2f-79029ec0daf1:1</r:UserID>
<l:VariableName xml:lang="en-US">Comment</l:VariableName>
<r:Label xml:lang="en-US">Unstructured comment about this observation</r:Label>
<l:ResponseUnit/>
<r:AnalysisUnit/>
<l:Representation>
<l:TextRepresentation blankIsMissingValue="true" maxLength="95"/>
</l:Representation>
</l:Variable>
<l:Variable id="27ae4d59-05a9-451c-8aaa-ffa3e73ef25e" version="1.0.0" versionDate="2011-10-26T13:33:00">
<r:UserID type="11179-IRD1">example.org:27ae4d59-05a9-451c-8aaa-ffa3e73ef25e:1</r:UserID>
<l:VariableName xml:lang="en-US">IDFormatted</l:VariableName>
<l:ResponseUnit/>
<r:AnalysisUnit/>
<l:Representation>
<l:CodeRepresentation blankIsMissingValue="true" classificationLevel="Nominal">
<r:CodeSchemeReference>
<r:ID>c95a20cf-1eb6-402b-9f8f-f2841b2faac5</r:ID>

```

```

<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1</r:Version>
</r:CodeSchemeReference>
</l:CodeRepresentation>
</l:Representation>
</l:Variable>
<l:VariableGroup id="46d23978-f7fd-4328-804b-cabe0c5c3896" version="1.0.0" versionDate="2011-10-26T13:33:00">
<l:GroupType>Content variable and associated Indicator of reasons for missing values</l:GroupType>
<l:VariableGroupName>Measure Group</l:VariableGroupName>
<r:Label>Set of variables for Measure</r:Label>
<r:Description>MeasureMissing is linked to Measure. MeasureMissing indicates distinctions between reasons for missing values in
Measure.</r:Description>
<l:VariableReference>
<r:Scheme>
<r:ID>b2c91c69-f10f-4ba7-81e3-4ff64bbd1e98</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1.0.0</r:Version>
</r:Scheme>
<r:ID>9fed70df-8a4a-4f18-a5a0-fe8eadc1ff54</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1.0.0</r:Version>
</l:VariableReference>
<l:VariableReference>
<r:Scheme>
<r:ID>b2c91c69-f10f-4ba7-81e3-4ff64bbd1e98</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1.0.0</r:Version>
</r:Scheme>
<r:ID>034b2ac2-3c5e-49c5-ae57-bc5b445987c2</r:ID>
<r:IdentifyingAgency>example.org</r:IdentifyingAgency>
<r:Version>1.0.0</r:Version>
</l:VariableReference>
</l:VariableGroup>
</l:VariableScheme>
</g:ResourcePackage>
</ddi:DDIInstance>

```

Appendix 2 – The Dataset

1,1,1944-06-07,1944-06-07T02:14:27,"m",1,1,197.5,0,11.11,15,"This is a comment. There are several sentences. Case one.",1

2,1,1949-04-05,1949-04-05T15:23:45,"f",2,1,188.6,0,12.12,17,"This is a comment. There are several sentences. Case two.",2

3,1,1948-02-29,1948-02-29T23:59:59,"m",1,1,201.4,0,13.13,22,"This is a comment. There are several sentences. Case three.",3

4,1,1948-01-13,1948-01-13T01:02:03,"m",1,0,222.2,0,14.14,27,"This is a comment. There are several sentences. Case four.",4

5,1,1949-05-09,1949-05-09T16:20:30,"f",2,0,196.2,0,15.15,33,"This is a comment. There are several sentences. Case five.",5

6,1,1944-08-22,1944-08-22T07:30:00,"m",1,0,,1,16.16,37,"This is a comment. There are several sentences. Case six. Subject declined to answer measure.",6

7,2,1943-02-14,1943-02-14T14:14:14,"f",2,1,,2,17.17,44,"This is a comment. There are several sentences. Case seven. Subject could not answer measure.",7

8,2,1944-11-22,1944-11-22T09:09:00,"m",1,0,170.7,0,18.18,23.8,"This is a comment. There are several sentences. Case eight.",8

Appendix 3 – The results grids.

Dataset

1	Location In DDI (StatTransfer style)	Via StatTransfer From DDI3.1 to:					Via StatTransfer To DDI3.1 From:						
2	metadata element	Parent/ element or @attribute	R data.frame	SPSS	Stata	SAS	JMP	R	SPSS	Stata	SAS	JMP	Notes
3	Dataset	ddi:DDIInstance / g:ResourcePackage											
4	name	I:LogicalProduct / I:LogicalProductName	+	+	+	+	+	-	~	~	+	+	~ Dataset name is in I:DataRelationshipName In R this is just "R", not the data.frame name
5	label	I:LogicalProduct /r:Label		-	-	~	~		+	+	-	-	~ indicates label generated by StatTransfer
6	date created	I:LogicalProduct / r:Description				+					-		Date created is for the initial creation of the dataset, before any changes
7	date modified	I:LogicalProduct / @versionDate		+	~	+			+	+	+		the last time the metadata and data were modified ~ indicates available from operating system date on file
8	Notes on dataset	I:LogicalProduct / r:Note	-	-	-		~	-	-	-	-	-	~ indicates note generated by StatTransfer
9	user defined attributes	I:LogicalProduct / r:Description	-	-	-			-	-	-			
10	script stored with data	I:LogicalProduct / r:Description					-					-	

Variables

1		Location In DDI (StatTransfer style)	Via StatTransfer From DDI3.1 to:					Via StatTransfer To DDI3.1 From:					
2	metadata element	Parent / element or @attribute	R data.frame	SPSS	Stata	SAS	JMP	R	SPSS	Stata	SAS	JMP	Notes
11	VARIABLES	g:ResourcePackage / I:VariableScheme											
12	name	I:Variable / I:VariableName	+	+	+	+	+	+	+	+	+	+	
13	basic datatype	I:Representation / I:DateTimeRepresentation OR I:NumericRepresentation OR I:TextRepresentation OR (I:CodeRepresentation / r:RecommendedDataType)	+	+	+	+	+	+	+	+	+	+	
14	display format	I:Representation / I:ValueRepresentation / r:GenericOutputFormat	-	-	-	-	-	-	-	-	-	-	
15	position	p:PhysicalDataProduct / p:RecordLayoutScheme / p:RecordLayout / p:DataItem (order of) ALSO I:VariableScheme / I:Variable (order of) <i>NOTE: could also be order of items in ds:DataSet / ds:RecordSet OR ds:ItemSet OR ds:VariableSet</i>	+	+	+	+	+	+	+	+	+	+	
16	label	I:Variable / r:Label	+	+	+	+	~	+	+	+	+	~	~ StatTransfer maps variable labels to Notes on the variable
17	scale	I:NumericRepresentation / @scale											
18	decimal positions	I:NumericRepresentation / @decimalPositions		+	-	-	-		-	-	-	-	

Values

1		Location In DDI (StatTransfer style)	Via StatTransfer From DDI3.1 to:					Via StatTransfer To DDI3.1 From:					
2	metadata element	Parent / element or @attribute	R data.frame	SPSS	Stata	SAS	JMP	R	SPSS	Stata	SAS	JMP	Notes
29	VALUES												
30	missing	I:ValueRepresentation / @missingValue AND I:ValueRepresentation / @blanksMissingValue	+	+	+	+	+	+	+	+	+	+	
31	multiple distinct system missing, can be labeled	I:Variable / r:Description			-	-				-	-		Best practice might be to output a second variable flagging the different types of missing
32	multiple values as missing	I:Category / @missing		-					~				~ Sample DDI did not include in-band missing values
33	ranges missing	<i>problematic in DDI 3.1</i>				-					-		Sample DDI could not include ranges as missing
34	numeric values can be labeled	I:CodeRepresentation / r:CodeSchemeReference I:CodeScheme I:Code / points to: I:CategoryReference		+	+	-	+		+	+	+	+	2011-11-05 - no SAS Proc Format or CNTLIN file written when input is DDI. Can be generated if Stata file is intermediary In R "Factors" have a nominal or ordinal numeric value with a label
35	text values can be labeled	I:CodeRepresentation / r:CodeSchemeReference I:CodeScheme I:Code / points to: I:CategoryReference		-		-	-		+		+	+	Only SPSS, SAS and JMP can label text values. StatTransfer can convert from one to the other so it can represent labeled text internally. Currently it cannot generate labeled text variables in DDI, but fix is the works.
36	ranges can be labeled	<i>problematic in DDI 3.1</i> I:NumberRange has no associated label				-	-				-	-	Only SAS and JMP do this. Currently difficult in DDI3.1

Values – continued

1		Location In DDI (StatTransfer style)	Via StatTransfer From DDI3.1 to:					Via StatTransfer To DDI3.1 From:					
2	metadata element	Parent / element or @attribute	R data.frame	SPSS	Stata	SAS	JMP	R	SPSS	Stata	SAS	JMP	Notes
37	multiple sets of labels (formats)	multiple relevant I:CategoryScheme elements possible but only one I:ValueRepresentation allowed I:Category can have multiple I:Label elements, distinguished by @type and @xml:lang ??Need something like I:AlternateValueRepresentation			-	-					-		Multiple label sets can exist in Stata during a session and in the Stata dta xml format but are lost in a .dta file. Only labels associated with a variable seem to be stored.
38	value colors	I:Variable / r:Description					-					-	

Appendix 3 – Here to There and Back Grids.

R

1		Step 1: TO DDI 3.1 FROM	Step 2: From DDI3.1 to:					RESULT: Y is Successful Transfer N Transfer via DDI 3.1 not						
			R	R data.frame	SPSS	Stata	SAS	JMP	R data.frame	SPSS	Stata	SAS	JMP	
2	metadata element	R												
3	Dataset													
4	name	-	+	+	+	+	+	n	n	n	n	n	n	n
5	Notes on dataset	-	-	-	-	-	?	n	n	n	-	-	n	n
6	user defined attributes	-	-	-	-	-	-	n	n	n	-	-	-	-
7	VARIABLES													
8	name	+	+	+	+	+	+	Y	Y	Y	Y	Y	Y	Y
9	basic datatype	+	+	+	+	+	+	Y	Y	Y	Y	Y	Y	Y
10	display format	-	-	-	-	-	-	n	n	n	n	n	n	n
11	position	+	+	+	+	+	+	Y	Y	Y	Y	Y	Y	Y
12	label	+	+	+	+	+	?	Y	Y	Y	Y	Y	n	n
13	specific type	+	+	+	+	+	+	Y	Y	Y	Y	Y	Y	Y
14	measurement level	-	-	-	-	-	-	n	n	-	-	-	n	n
15	user defined attributes	-	-	-	-	-	-	n	n	n	-	-	n	n
16	notes	-	-	-	-	-	?	n	n	n	-	-	n	n
17	VALUES													
18	missing	+	+	+	+	+	+	Y	Y	Y	Y	Y	Y	Y
19	numeric values can be labeled	+	+	+	+	-	+	n	Y	Y	n	n	Y	Y
20	Scripting Language													
21	structured comments possible	-	-	-	-	-	-	n	n	n	n	n	n	n

SPSS

1	TO DDI 3.1 FROM	Via StatTransfer From DDI3.1 to:					RESULT: Y is Successful Transfer N Transfer via DDI 3.1 not				
		R data.frame	SPSS	Stata	SAS	JMP	R data.frame	SPSS	Stata	SAS	JMP
2	metadata element										
3	Dataset										
4	name	~	+	+	+	+	n	n	n	n	n
5	label	+	█	-	-	~	█	n	n	n	n
6	date modified	+	█	+	~	+	█	Y	n	Y	█
7	Notes on dataset	-	-	-	█	~	n	n	n	█	n
8	user defined attributes	-	-	-	█	█	n	n	n	█	█
9	VARIABLES										
10	name	+	+	+	+	+	Y	Y	Y	Y	Y
11	basic datatype	+	+	+	+	+	Y	Y	Y	Y	Y
12	display format	-	-	-	-	-	n	n	n	n	n
13	position	+	+	+	+	+	Y	Y	Y	Y	Y
14	label	+	+	+	+	~	Y	Y	Y	Y	n
15	decimal positions	-	█	+	-	-	█	n	n	n	n
16	specific type	+	+	+	+	+	Y	Y	Y	Y	Y
17	measurement level	-	-	-	█	█	n	n	█	█	n
18	weight, variable is a	-	█	-	█	█	█	n	█	█	n
19	role	-	█	-	█	█	█	n	█	█	n
20	user defined attributes	-	-	-	█	-	n	n	n	█	n
21	notes	-	-	-	█	~	n	n	n	█	n
22	VALUES										
23	missing	+	+	+	+	+	Y	Y	Y	Y	Y
24	multiple values as missing	~	█	-	█	█	█	n	█	█	█
25	numeric values can be labeled	+	█	+	-	+	n	Y	Y	n	Y
26	text values can be labeled	+	█	-	█	-	█	n	█	n	n

		TO DDI 3.1 FROM	Via StatTransfer From DDI3.1 to:					RESULT: Y is Successful Transfer N Transfer via DDI 3.1 not				
1		Stata	R data.frame	SPSS	Stata	SAS	JMP	R data.frame	SPSS	Stata	SAS	JMP
2	metadata element	Stata										
3	Dataset											
4	name	?	+	+	+	+	+	n	n	n	n	n
5	label	+	■	-	-	?	?	■	n	n	n	n
6	date modified	+	■	+	?	+	■	■	Y	n	Y	■
7	Notes on dataset	-	-	-	-	■	?	n	n	n	■	n
8	user defined	-	-	-	-	■	■	n	n	n	■	■
9	VARIABLES											
10	name	+	+	+	+	+	+	Y	Y	Y	Y	Y
11	basic datatype	+	+	+	+	+	+	Y	Y	Y	Y	Y
12	display format	-	-	-	-	-	-	n	n	n	n	n
13	position	+	+	+	+	+	+	Y	Y	Y	Y	Y
14	label	+	+	+	+	+	?	Y	Y	Y	Y	n
15	decimal positions	-	■	+	-	-	-	■	n	n	n	n
16	specific type	+	+	+	+	+	+	Y	Y	Y	Y	Y
17	user defined attributes	-	-	-	-	■	-	n	n	n	■	n
18	notes	-	-	-	-	■	?	n	n	n	■	n
19	VALUES											
20	missing	+	+	+	+	+	+	Y	Y	Y	Y	Y
21	multiple distinct	-	■	■	-	-	■	■	■	n	n	■
22	numeric values can be	+	■	+	+	-	+	n	Y	Y	n	Y
23	multiple sets of labels	■	■	■	-	-	■	■	■	n	n	■

SAS

1	TO DDI 3.1 FROM	Via StatTransfer From DDI3.1 to:					RESULT: Y is Successful Transfer N Transfer via DDI 3.1 not					
		SAS	R data.frame	SPSS	Stata	SAS	JMP	R data.frame	SPSS	Stata	SAS	JMP
2	metadata element											
3	Dataset											
4	name	+	+	+	+	+	+	+	+	+	+	+
5	label	-		-	-	?	?		n	n	n	n
6	date created	-				+				n		
7	date modified	+		+	?	+		Y	n	Y		
8	VARIABLES											
9	name	+	+	+	+	+	+	+	+	+	+	+
10	basic datatype	+	+	+	+	+	+	+	+	+	+	+
11	display format	-	-	-	-	-	-	n	n	n	n	n
12	position	+	+	+	+	+	+	+	+	+	+	+
13	label	+	+	+	+	+	?	+	+	+	+	n
14	scale	-				-				n		
15	decimal positions	-		+	-	-	-		n	n	n	n
16	specific type	+	+	+	+	+	+	+	+	+	+	+
17	VALUES											
18	missing	+	+	+	+	+	+	+	+	+	+	+
19	multiple distinct system missing,	-			-	-				n	n	
20	ranges missing	-				-				n		
21	numeric values can be labeled	+		+	+	-	+	n	Y	Y	n	Y
22	text values can be labeled	+		-		-	-		n		n	n
23	ranges can be labeled	-				-	-				n	n
24	multiple sets of labels (formats)	-			-	-				n	n	

Jmp

	JMP	R data.frame	SPSS	Stata	SAS	JMP		R data.frame	SPSS	Stata	SAS	JMP
2 metadata element												
3 Dataset												
4 name	+	+	+	+	+	+	Y	Y	Y	Y	Y	Y
5 label	-	▨	-	-	~	~	▨	n	n	n	n	n
6 Notes on dataset	-	-	-	-	▨	~	n	n	n	▨	▨	n
7 script stored with data	-	▨	▨	▨	▨	-	▨	▨	▨	▨	▨	n
8 VARIABLES												
9 name	+	+	+	+	+	+	Y	Y	Y	Y	Y	Y
10 basic datatype	+	+	+	+	+	+	Y	Y	Y	Y	Y	Y
11 display format	-	-	-	-	-	-	n	n	n	n	n	n
12 position	+	+	+	+	+	+	Y	Y	Y	Y	Y	Y
13 label	~	+	+	+	+	~	n	n	n	n	n	n
14 decimal positions	-	▨	+	-	-	-	▨	n	n	n	n	n
15 specific type	+	+	+	+	+	+	Y	Y	Y	Y	Y	Y
16 measurement units	-	▨	▨	▨	▨	-	▨	▨	▨	n	▨	▨
17 measurement level	-	-	-	▨	▨	-	n	n	▨	▨	▨	n
18 weight, variable is a	-	▨	-	▨	▨	-	▨	n	▨	▨	▨	n
19 role	-	▨	-	▨	▨	-	▨	n	▨	▨	▨	n
20 user defined attributes	-	-	-	-	▨	-	n	n	n	▨	▨	n
21 notes	~	-	-	-	▨	~	n	n	n	▨	▨	n
22 VALUES												
23 missing	+	+	+	+	+	+	Y	Y	Y	Y	Y	Y
24 numeric values can be labeled	+	▨	+	+	-	+	n	Y	Y	n	n	Y
25 text values can be labeled	+	▨	-	▨	-	-	▨	n	▨	n	n	n
26 ranges can be labeled	-	▨	▨	▨	-	-	▨	▨	▨	n	n	n
27 value colors	-	▨	▨	▨	▨	-	▨	▨	▨	▨	▨	n
28 Scripting Language												
29 structured comments possible	-	-	-	-	-	-	n	n	n	n	n	n