

GENERATING BLAISE SURVEYS FROM DDI LIFECYCLE USING COLECTICA

In This Talk



- Overview of DDI Survey Documentation
- DDI 2
- □DDI 3.0, 3.1
 - partial OWL-S process model
- □ DDI 3.2
 - complete OWL-S process model



In This Talk - II



- Use Cases
- Specifying Survey Instruments in DDI-L
- Mapping DDI-L to Blaise
- Generating Blaise Source Code



Use Case #1

- Wisconsin Longitudinal Survey in 2006
 - ■Jeremy Iverson WLS
 - ■Dan Smith IBM AdTech
- Create Flow Charts for documentation
 - Parse CATI Code
 - Automate Manual Flowchart Drawing
- Store information in some standard format



DDI 2

- Documents variables in a dataset
- Question text from a survey is associated with a single variable
- No detailed description of the question or response options
- No question flow, only simple forward and backward links



DDI 2

- DDI 2 fails
- Not descriptive enough for creating flow charts (use case #1)
 - ■Need flow control logic

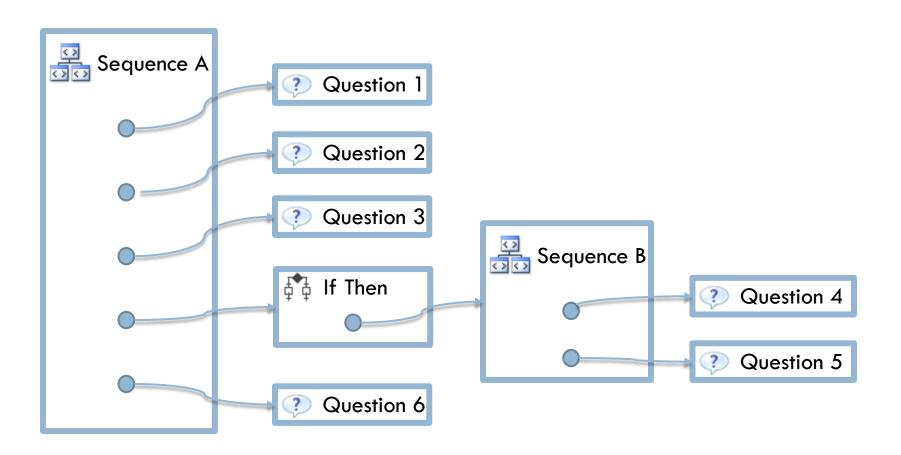


DDI 3.0

- Join DDI Instrument Documentation Committee
- Recommend OWL-S process model to describe instrument flow
- Only import control flow portion, to meet use case #1



OWL-S - Part 1





DDI 3.0 and 3.1

- □DDI 3.0 a success
 - ■Flow model stays the same in DDI 3.1
- Describes instrument flow
- Textual description of conditions for if/then, loops, and dynamic text
- □ Use case #1 is implemented

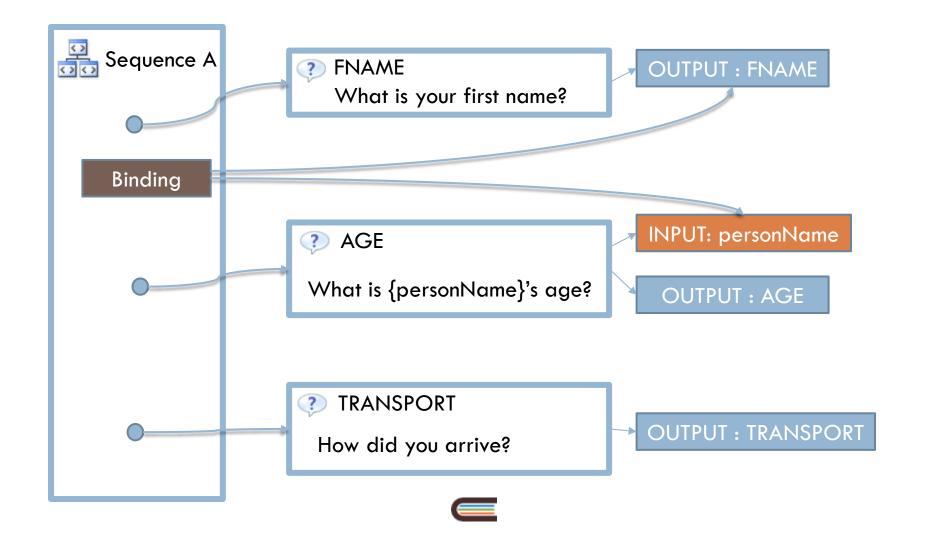


Use Case #2

- Create surveys using a Question Bank and Generate Blaise from DDI
 - DDI 3.0 and 3.1 are not enough
- Can not share questions and sequences across surveys due to lack of scope



OWL-S - Part 2



DDI 3.2

- DDI 3.2 includes full OWL-S process model
- Questions and sequences can be reused directly across studies
- Scoping is well defined
 - ■No longer a monolithic instrument
- ■Use case #2 is achievable



Creating DDI 3.2 instruments

- □ Full support in Colectica Designer
- Drag and Drop Questions and Sequences from repository onto new instruments
- Automatically create Out-Parameters
- Show all possible in scope In-Parameters, add them along with parent bindings when used

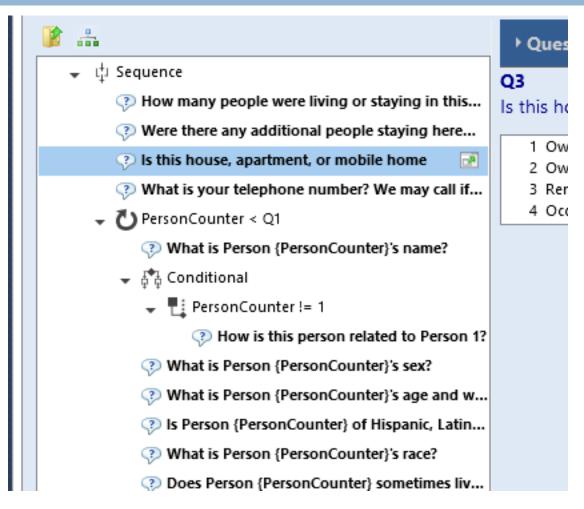


Generating CATI Code

- Colectica Generates CATI Code
 - Blaise
 - ■SPSS Dimensions
 - Cases
 - ■CS Pro
 - QueXML
 - LimeSurvey
 - REDCap



Generate Blaise Code





Generate Blaise Code

```
{ This code was generated by a tool on Wednesday, December 04, 2013 at 3:10:19 AM. }
{ Colectica® 4.1.3341 Release }
{ Changes to this file may cause incorrect behavior and will be lost if the code is regenerated. }
DATAMODEL 2010Instrument "2010 United States Census Questionnaire"
INCLUDE "BBlock1.inc.bla"
TYPE
     TadditionalPeopleCodes =
           C1 (1) "Children, such as newborn babies or foster children",
           C2 (2) "Relatives, such as adult children, cousins, or in-laws",
           C3 (3) "Nonrelatives, such as roommates or live-in baby sitters",
           C4 (4) "People staying here temporarily ...",
           C5 (5) "No additional people"
     ThouseOwnershipCodes =
           C1 (1) "Owned by you or someone in this household with a mortgage or loan? Include home equity loans.",
           C2 (2) "Owned by you or someone in this household free and clear (without a mortgage or loan)?",
           C3 (3) "Rented?",
           C4 (4) "Occupied without payment of rent?"
FIELDS
     { Name: Q1 }
     Q1 "How many people were living or staying in this house, apartment, or mobile home on April 1, 2010?": Integer
      { Name: O2 }
      Q2 "Were there any additional people staying here April 1, 2010 that you did not include in Question 1?": Tadditional
      { Name: Q3 }
     Q3 "Is this house, apartment, or mobile home": ThouseOwnershipCodes
     { Name: Q4 }
     04 "What is your telephone number? We may call if we don't understand an answer." : String[10]
```

Main Take Away

- □Use DDI 3.2
- □ Generate your CATI code
 - Eliminate errors, save time, and enable harmonization
- □Get in touch with us for Collaboration Opportunities





Thank you

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