



Sustainable Questionnaire Development with Colectica and Blaise

Agenda

- Blaise and Colectica
- Sustainable questionnaire development
- What's new in Blaise Colectica Questionnaires
- Blaise Control Centre addin
- Colectica Question Bank roadmap





Blaise and Colectica



Colectica Overview

- Standards-based software for
 - ▣ Survey design and specification
 - ▣ Data documentation
 - ▣ Data lifecycle documentation
- Used by
 - ▣ National statistical organizations
 - ▣ Longitudinal studies
 - ▣ Research data producers



Colectica and Blaise

2005

- Together, helped design the DDI Lifecycle data collection model

2011

- Colectica extracts DDI 3 metadata from Blaise source code
- Colectica generates Blaise source code

2018

- Blaise Colectica Questionnaires available through Blaise

2020

- Colectica Repository available through Blaise





Sustainable Questionnaires

What do we mean by “sustainable”?

- Survey development that follows a standardized process
- Ad hoc, un-auditable communication methods are not used



Sustainable Practices

- Specify questions in standard formats
- Formal review and approval process
- Audit trail for all changes



Tools

- 1. Blaise Colectica Questionnaires with Repository and Portal
- 2. Blaise Control Centre Addin
- 3. Future: Colectica Question Bank





Blaise Colectica Questionnaires

Blaise Colectica Questionnaires: What's New

- Search
- Validation
- Intelligent drag and drop
- Visual calculation editor
- External data lookup
- Custom Blaise code



Blaise Colectica Questionnaires: Validation

- ❑ Inputs that are unfulfilled
- ❑ Multiple choice options that are not numeric
- ❑ Duplicate multiple-choice option values
- ❑ Display logic with missing or incomplete expressions
- ❑ Edit Checks with missing or incomplete validation expressions
- ❑ Roster definitions with incomplete or inconsistent looping information



Blaise Colectica Questionnaires: Search

The screenshot displays the Blaise Colectica Questionnaires software interface. The window title is "Sample Social Survey - Colectica Questionnaires". The ribbon menu includes "File", "Home", "Design", "Questions", "Specification", "Paper Form", "DDI 3.3", and "Synchronize". The "Design" ribbon is active, showing options like "New", "Open", "Open from Repository", "Search", "Check for Errors", "Flowchart", and "Settings".

The main area shows a list of questionnaire sections:

- welcome: Thank you for taking our survey.
- Family: 2 items
- Demographics: 3 items
- Work: 5 items
- Children: Repeat 3 times, 3 items
- Health: 4 items

At the bottom, there is an "Information" section. A green plus icon is visible in the bottom right corner of the list area.



Blaise Colectica Questionnaires: Drag and Drop

Sample Social Survey - Colectica Questionnaires



File Home

Save New Open Open from Repository Search Check for Errors Design Questions Flowchart Settings View Specification Paper Form DDI 3.3 Synchronize Repository

Sample Social Survey

- welcome Thank you for taking our survey.
- Family Family 2 items
- Demographics Demographics 3 items
- Work Work 5 items
- Children Repeat 3 times 3 items
- Health Health 4 items

Information





Colectica Blaise Control Centre Addin

Blaise Control Centre Addin

- Search for questions or code lists in Colectica Repository
- Insert Blaise source code in the open document



Blaise Control Centre Addin: Insert questions

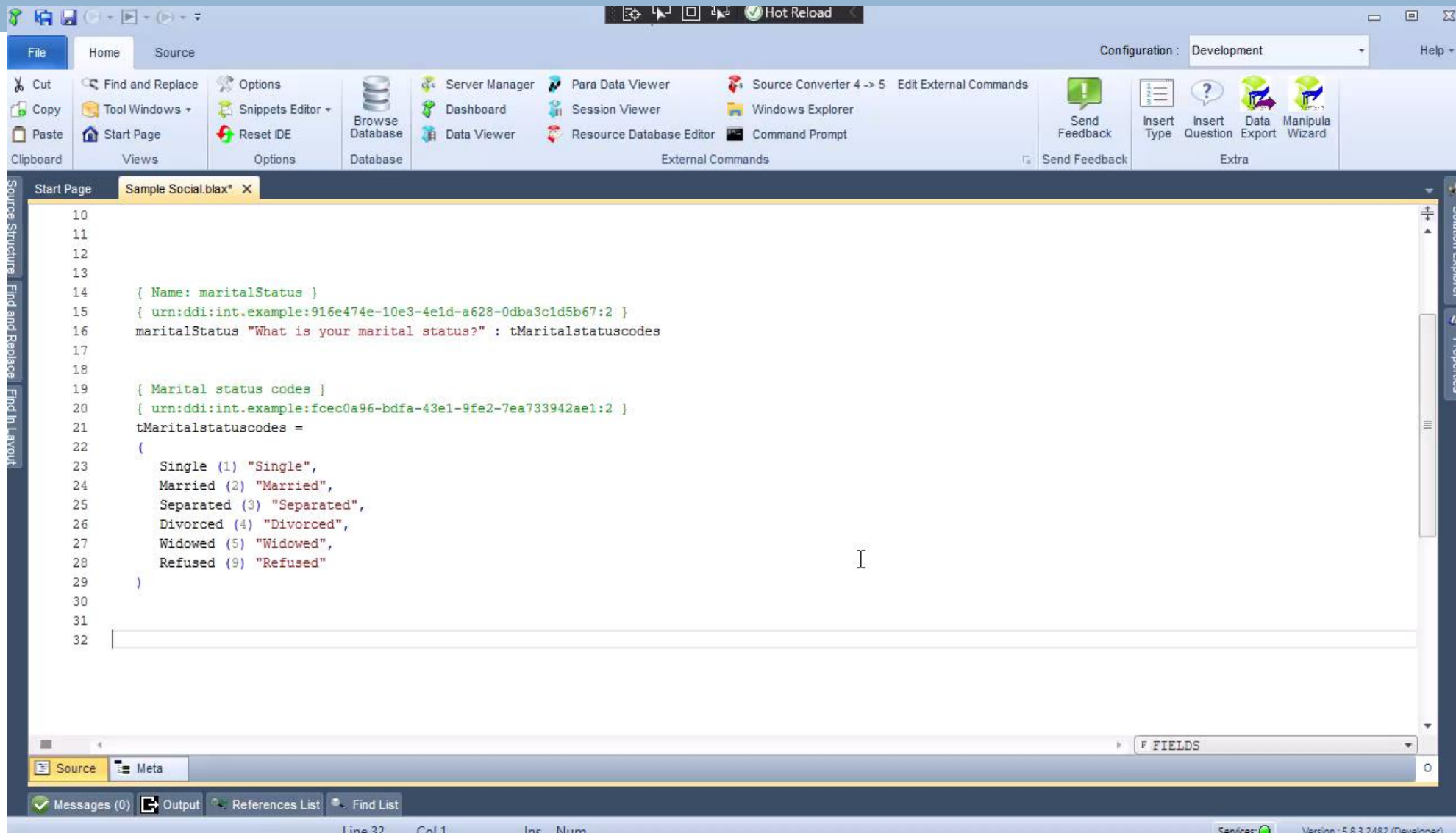
The screenshot displays the Blaise Control Centre IDE interface. The main window shows a data model editor for 'Sample Social.blax*'. The code in the editor is as follows:

```
1 DATAMODEL MyDatamodel
2
3 PRIMARY ID
4
5 FIELDS
6
7   ID : INIEGER[4]
8
9 ENDMODEL
10
11
```

The cursor is positioned at the end of line 7. The IDE includes a menu bar with 'File', 'Home', and 'Source'. The ribbon contains various tool windows such as 'Server Manager', 'Para Data Viewer', 'Source Converter 4 -> 5', 'Edit External Commands', 'Send Feedback', 'Insert Type', 'Insert Question', 'Data Export', and 'Manipula Wizard'. The status bar at the bottom shows 'Line 10, Col 1, Ins. Num' and 'Version: 5.8.3.2482 (Developer)'.



Blaise Control Centre Addin: Insert types



The screenshot displays the Blaise Control Centre Addin interface. The main window shows a code editor with the following content:

```
10
11
12
13
14 { Name: maritalStatus }
15 { urn:ddi:int.example:916e474e-10e3-4e1d-a628-0dba3c1d5b67:2 }
16 maritalStatus "What is your marital status?" : tMaritalstatuscodes
17
18
19 { Marital status codes }
20 { urn:ddi:int.example:foec0a96-bdfa-43e1-9fe2-7ea733942ae1:2 }
21 tMaritalstatuscodes =
22 (
23     Single (1) "Single",
24     Married (2) "Married",
25     Separated (3) "Separated",
26     Divorced (4) "Divorced",
27     Widowed (5) "Widowed",
28     Refused (9) "Refused"
29 )
30
31
32
```

The interface includes a menu bar (File, Home, Source), a toolbar with various tools (Cut, Copy, Paste, Find and Replace, Options, Snippets Editor, Reset IDE, Server Manager, Para Data Viewer, Source Converter, Edit External Commands, Send Feedback, Insert Type, Insert Question, Data Export, Manipulation Wizard), and a status bar at the bottom showing 'Messages (0)', 'Output', 'References List', and 'Find List'. The configuration is set to 'Development'.





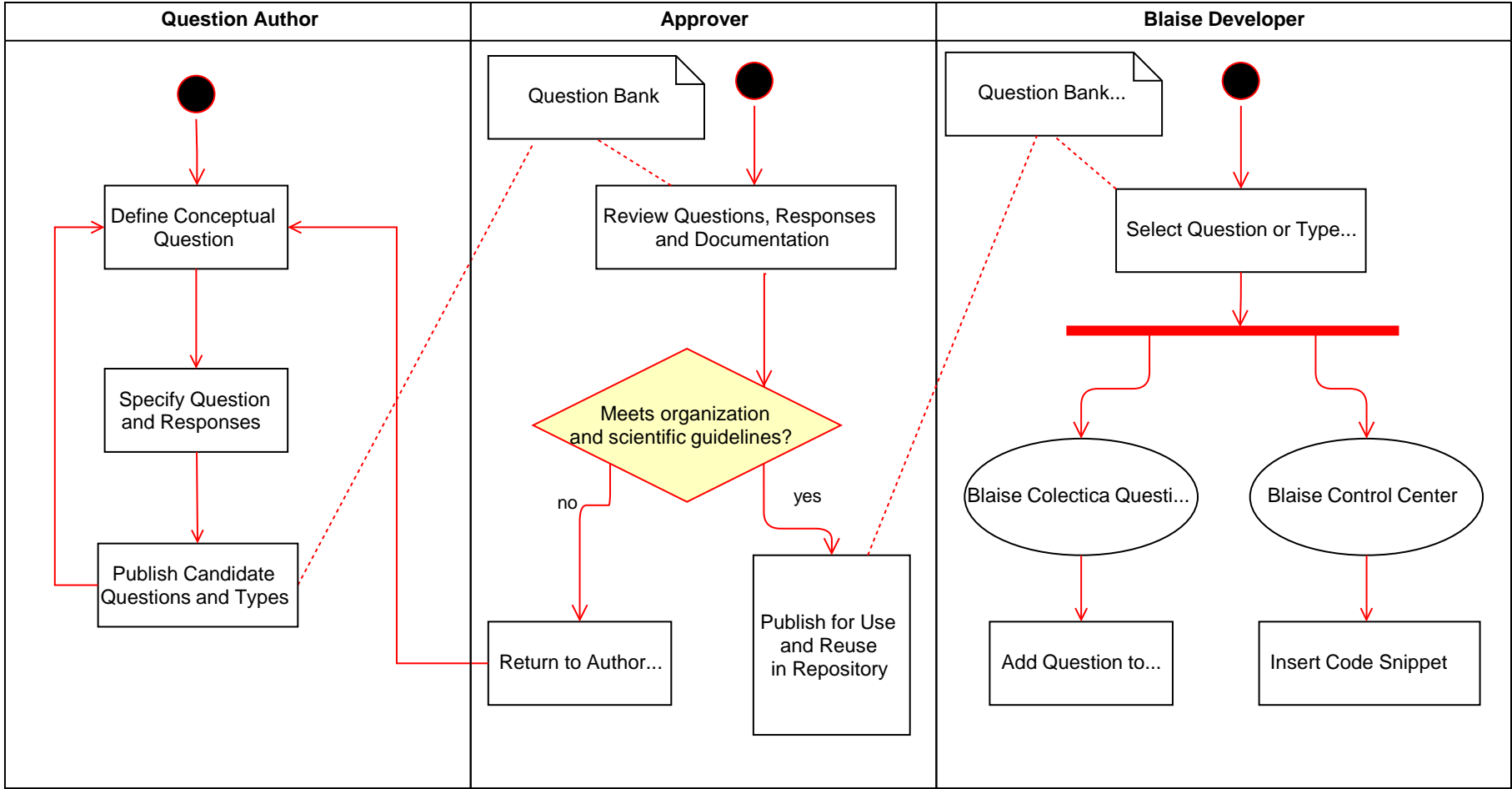
Colectica Question Bank

Colectica Question Bank Features

- Web-based question authoring
- Output data specification
- Review, approval, and publication process
- Question discovery
- Lineage and audit log
- Connect to Blaise Colectica Questionnaires and Blaise Control Centre



Colectica Question Bank Workflow



Documentation

- <http://docs.colectica.com>



Thank you

